



Energy, Mines and Resources
Assessment and Abandoned Mines

Box 2703 - K-419
Whitehorse, YT Y1A 2C6

January 17, 2013

MEMORANDUM

Re: EBA Engineering Report “Groundwater Sampling Methods and Results Report – Mount Nansen, Yukon” (August 2012)

This memorandum is to preface the “Groundwater Sampling Methods and Results Report – Mount Nansen, Yukon” (August 2012) written by EBA Engineering (EBA) for Yukon Government Assessment and Abandoned Mines (AAM). It also speaks to “Water Sampling Field Completion Report – Mount Nansen, Yukon” (June 2012), issued to AAM following the field investigations and submitted prior to the Methods and Results report.

Introduction

EBA Engineering (EBA) was retained in Spring 2012 to conduct groundwater investigations to support the establishment of a groundwater baseline for the Mount Nansen Project, both for refining the project design and for meeting the needs of an environmental assessment application. EBA was to review previous field results, submit a field plan and undertake a field investigation, including monitoring, sampling, datalogger downloading and hydraulic conductivity testing at each monitoring well, mini-piezometer and identified seep. Finally, EBA was to submit a field memo following completion of the field investigation, summarizing which investigations were conducted and including comments or concerns; and to provide a draft report for review, discussing all analyses and results of the groundwater sampling program and making recommendations for future groundwater investigations.

This memo summarizes the recommendations outlined by EBA in the report.

Contractor Recommendations

EBA proposed recommendations in their reports; the following is a summary of those recommendations. For more specific details on the recommendations, please see the full report.

Recommendations provided in the field sampling report:

- A summary of well installation details compiled from completion reports, including well logs and well completion diagrams, should be included as a part of the field sampling package.
- Well locations taken with handheld GPS as UTM's in NAD83 projection and Zone 08V should be compared with the surveyed locations to determine the problem with the coordinates provided.

- MP09-01, MP09-02, MP09-03, MP09-08 and MP09-14 should be identified as “micro-piezometers”. Consideration should be given to sampling surface water concurrently with groundwater sampling as the groundwater quality in these locations may be relevant to surface water quality.
- Photos of all wells should be included with the sampling program to confirm the correct location and note any changes since the last sampling event.

To increase field program efficiency and value for long-term monitoring at the site:

- TH09-01 should be recorded as a test hole only and removed from future sampling lists.
- All Solinst Leveloggers should be installed on direct read cables for ease of access when the loggers may be frozen in place
- MP09-06, MP09-07 and MP09-13 are destroyed and should be removed from the sampling list and/or replaced with working mini-piezometers.
 - AAM should assess the importance of samples from these locations and consider re-installing.
- Where samples are collected from mini-piezometers installed in surface water locations, and from surface water discharge points that are located in close proximity to each other, the chemistry results should be compared.
- Existing hydraulic conductivity data should be compiled, and only those wells that have not been previously tested due to insufficient water, or those wells where significant variation has been noted between tests, should be targeted for future hydraulic conductivity testing.

Incomplete Items

The items below were not addressed in this report:

- Wells MW09-05, MW09-06 and MW09-07 were not sampled due to being partially submerged in the tailings pond at the time of the field investigation.
- A surface water sample was collected from the standing water at the Seepage Pond and flowing water at the Seepage Discharge. AAM required a sample to be collected on the outside/downstream slope of the Seepage Pond Dam (not the pond itself). If there was no seep present at that time, a sample would not be required.
- Water levels in mini-piezometers MP09-01, MP09-02 and MP09-08 were not measured, as their diameter was smaller than the other wells in the program.
- The results of the Norwest hydraulic conductivity analyses (October 2011) were not available and thus could not be included in the report.

Sincerely,

Josée Perron
Senior Project Manager, Type II Mines
Assessment and Abandoned Mines

GOVERNMENT OF YUKON - ASSESSMENT AND ABANDONED MINES BRANCH

GROUNDWATER SAMPLING METHODS & RESULTS REPORT MOUNT NANSEN, YUKON



REPORT

NOVEMBER 2012
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1.0 INTRODUCTION

At the request of Ms. Elsbè Kloppers, Department of Energy, Mines and Resources, Assessment and Abandoned Mines Branch, Government of Yukon, EBA Engineering Consultants Ltd. operating as EBA, A Tetra Tech Company (EBA), undertook a groundwater sampling program from June 1 to June 6, 2012 at the Mount Nansen (the Site). A previous letter report titled “Water Sampling Field Completion Report – Mount Nansen, Yukon, details the sampling completed. The purpose of this report is to present the field methods, water chemistry and hydraulic conductivity results, and additional data collected during a subsequent site visit.

2.0 BACKGROUND

Mount Nansen is located about 60 km west of Carmacks, Yukon on a year round all-weather road. The mine was in operation over several periods dating from the 1960s to 1999 at which time the mine went into private receivership. In April 2003, the Government of Yukon, (GY) took over receivership. GY continues to oversee care and maintenance for the Site.

EBA understands that the groundwater monitoring wells, mini-piezometers, micro-piezometers and seeps have been monitored and sampled on a regular basis. EBA reviewed three background reports as part of this sampling and analysis program.

3.0 OBJECTIVE

The key objective of the work was to conduct a field investigation and laboratory analysis to capture spring freshet at Mount Nansen including monitoring, sampling, datalogger downloading, and hydraulic conductivity testing at each monitoring well, mini-piezometer and identified seep. The objective was met through completing the work outlined below in Section 4.0.

4.0 WORK COMPLETED

As part of the June 1- 6, 2012 monitoring program, the following tasks were completed:

- The condition of the monitoring point at each site was recorded both by observation, provided in Table 1, and by photograph. Site photos (including surface water sites) can be found in the Photographs section attached to this report.
- Water level or depth to ice was recorded in all wells, and depth to bottom was recorded in unfrozen wells using a Heron Instruments water level sounder. The data is provided in Table 1.
- Hydraulic testing was completed in one and two inch monitoring wells with standing water utilizing a Solinst Levelogger® to record water levels and bailers and/or solid slugs. A total of 11 groundwater wells, identified in Table 2, were hydraulically tested.
- Groundwater samples were collected utilising a Barnant Company peristaltic pump and a Geotech bladder pump. A total of 14 groundwater monitoring points were sampled.

- Surface water samples were collected from standing water at the Seepage Pond and flowing water at the Seepage Discharge.
- Solinst Levellogger® transducers (water level dataloggers and one barallogger) were downloaded at MW09-03, MW09-04, MW09-23, and GLL07-03 (levellogger and barallogger). The Solinst Levellogger® located in the open pit lake (Pit Transducer for the purposes of this report) and GLL07-03 were downloaded on July 19, 2012.
- A total of 22 samples were collected including samples from 14 groundwater wells, 2 surface water sites, 2 duplicate samples, 1 split sample, 1 field blank, 1 filter blank and 1 travel blank.
- Upon return to Whitehorse, samples were shipped to Exova for analysis (see laboratory analysis certificate in Appendix A).
- A letter report detailing the work completed during the June 1-6 sampling event was issued June 25, 2012.
- Chemistry results were compared to Yukon Contaminated Sites Regulation (YCSR) Aquatic Life Standards, Metal Mining Effluent Regulations (MMER) and Canadian Council of Ministers of the Environment (CCME) Water Quality Guidelines for the Protection of Aquatic Life. It should be noted the YCSR standards are typically used to assess parameters in groundwater; MMER is used to assess parameters in surface water at the discharge point; and CCME is used to assess parameters in surface water downstream of the discharge point.
- Hydraulic testing data was analyzed utilizing the Hvorslev method included in the AquiferTest 2011.1 package of software.

5.0 FIELD METHODS

5.1 Groundwater Sampling

As indicated in our letter report of June 25, 2012, groundwater sampling was completed using a Barnant Company peristaltic pump in MW09-01, MW09-02, MW09-03, MW09-04, MW09-17, MW09-18, MW09-22, MP09-04, and MP09-05. Sampling in MW09-23 and MW09-24 was completed using a Geotech bladder pump, Geotech Geocontrol 2 Logic Unit and compressed nitrogen as the depth to water in these wells was greater than 9 m. The bladder pump is capable of pumping against greater hydrostatic head pressures than the peristaltic pump, which has been found to be capable of pumping to a maximum of approximately 9 m of hydrostatic head. Water levels in the wells were monitored during pumping to ensure that the water level was constant, and sampling was conducted when the field water quality parameters (specific conductance, pH and dissolved oxygen) had stabilized. Field parameters are summarized in Table 3, attached.

Drive-points MP09-01, MP09-02, and MP09-08 were also sampled using the peristaltic pump. The well diameter was originally 1 inch diameter but with the permanent LDPE tubing installed within the wells (see Photo 24), the inside diameter is actually less than ½ inch so water levels could not be measured with the available water level meter. To measure water levels in these wells, a narrow gauge water level sounder is required. These wells were submerged so an estimated water level was measured by measuring

the height of water from the top of the pipe to the surrounding water level. These wells quickly ran dry using the peristaltic pump. Pumping was continued as the wells re-charged until field parameters were stable, at which point water samples were collected.

Samples were submitted to Exova for analysis, results are included in Table 3 and the lab certificate is included as Appendix A of this report.

5.2 Surface and Seep Sampling

Samples were collected from the Seepage Pond discharge (a flowing pipe which discharges below the seepage pond) and from the Seepage Pond near the pumphouse located in the pond. Photos 32 and 33 show these sampling points and the GPS coordinates are provided in Table 1. Samples were collected at the seepage discharge directly from the flow. Field parameters were taken by placing the YSI meter into the culvert below the discharge point. Field parameters collected during the sampling program are included in Table 3. Samples were collected at the Seepage Pond directly from the standing water. Field parameters were taken by placing the YSI meter directly into the standing water.

Samples were submitted to Exova for analysis. Results are summarized in Table 3 and the lab certificate is included as Appendix A of this report.

5.3 QA/QC Sampling

Three duplicates, one split, one travel blank, one field blank and one filter blank were taken as part of the field quality assurance/quality control program.

- Duplicate samples were collected at MW09-22 and MP09-01. The samples were collected by filling the duplicate sample subsequent to the primary sample set.
- One split sample was taken at MW09-18. This sample was taken by filling the bottles concurrently.
- One travel blank was taken. This blank consisted of deionized water bottled in the laboratory in Whitehorse and traveled with the field samples.
- One filter blank was taken in the field by filtering deionized water through the filtering equipment used during field sampling.
- One field blank was taken by opening the sample in the field during the collection of the field sample to ensure that no airborne dust or other materials transferred during sampling.

Samples were submitted to Exova for analysis, results are included in Table 3 and the lab certificate is included as Appendix A of this report.

5.4 Hydraulic Conductivity Testing

Hydraulic conductivity testing was completed at MW09-01, MW09-02, MW09-03, MW09-04, MW09-17, MW09-18, MW09-22, MW09-23, MW09-24, MP09-04 and MP09-05. These tests were completed by placing a Solinst Levellogger® near the bottom of the well and inducing an instantaneous change in water level by means of adding or removing a solid slug or removing a volume of water. Water levels were also recorded manually using a Heron Instruments water level sounder both prior to starting a test and after

each test to ensure that complete recovery was achieved. Hydraulic conductivity analysis is summarized in Section 7 and the results are provided in Appendix B.

5.5 Instrumentation Downloads

The levelloggers in MW09-03, MW09-04, MW09-15 (direct read), MW09-23 and GLL07-03 (direct read) as well as the barallogger were accessible and data was downloaded during the June 1-6 field visit. During a subsequent site visit for other site work on July 19, EBA representatives downloaded the data in the levellogger installed in the pit lake. The data from the pit lake transducer is included along with the data from GLL07-03 water level transducer and barallogger and provided to AAM electronically. The levelloggers in MW09-20 and GLL07-01 were frozen in place, and as direct read cables are not attached to these dataloggers, data was not downloaded.

Levelloggers were not re-set as EBA observed that each levellogger (and the barallogger) had a minimum of 1.5 years of available space at current logging rates.

6.0 WATER CHEMISTRY RESULTS

A total of 22 water samples were submitted to Exova for analysis. Results are presented in Table 3 and are compared to the YCSR Aquatic Life standards, MMER standards, and CCME Guidelines for comparison purposes only.

Interpretation of this data was not part of the EBA’s scope of work; however exceedances are indicated in Table 3.

7.0 HYDRAULIC CONDUCTIVITY RESULTS

EBA completed hydraulic tests on 11 monitoring wells during the field program. Hydraulic conductivity analysis was conducted by EBA personnel using the well completion information summarized in Table 4 and the Hvorslev method included in the AquiferTest 2011.1 analysis software package. Hydraulic conductivity results from the tests completed during this field trip and results from testing completed by AECOM immediately after well installation are summarized in Table 5 below. Results of analysis for tests completed during the June 1-6, 2012 monitoring round are included in Appendix B of this report.

Table 5: Measured Hydraulic Conductivity

Well ID	EBA 2012	AECOM 2007	Lithology (from AECOM well logs)
	Hydraulic Conductivity		
	m/s		
GLL07-03		2.70E-06	BEDROCK
GLL07-03		1.50E-06	
MW09-01	6.14E-06		SAND
MW09-02	3.40E-05	1.04E-06	SAND, silty (tailings)
MW09-03	1.15E-05	5.53E-06	SAND

Table 5: Measured Hydraulic Conductivity

Well ID	EBA 2012	AECOM 2007	Lithology (from AECOM well logs)
	Hydraulic Conductivity		
	m/s		
MW09-04	7.12E-07		SAND, silty
MW09-06		2.04E-06	SAND, silty (tailings)/CLAY (tailings)
MW09-15		1.20E-06	DIORITE (BEDROCK), highly weathered
MW09-17	1.50E-03		GRAVEL, some clay, silt and sand/BEDROCK
MW09-18	6.01E-04		SAND and GRAVEL, trace clay
MW09-22	6.10E-06		SAND, some gravel, trace silt
MW09-23	2.53E-05	1.29E-05	SAND and GRAVEL (fill), trace silt
MW09-24	5.74E-05		SAND, trace silt, trace gravel
MP09-04	1.22E-05		Not recorded
MP09-05	5.14E-05		Not recorded

EBA understands that Norwest completed another 20 groundwater response tests in October 2011; however they did not analyze the data to determine the hydraulic conductivity. These tests were completed for MW09-01, MW09-02, MW09-03, MW09-04, MW09-05, MW09-06, MW09-07, MW09-08, MW09-11, MW09-16, MW09-17, MW09-18, MW09-19, MW09-21, MW09-22, MW09-23 MW09-24, MP09-09 and MP09-10.

8.0 COMMENTS

During the background review, sampling and review of results from the Mount Nansen groundwater monitoring wells, mini-piezometers, micro-piezometers, EBA identified several concerns:

- TH09-01, which EBA personnel were not able to find onsite during the field visit is indicated in AECOM’s Hydrogeological Characterization of the Mt. Nansen Mine Site – Draft report of October 2010 as “no well”.
- Solinst Levelloggers® installed on wire line cable (MW09-21) and nylon cord (GLL07-01) in frozen wells are inaccessible for data downloads.
- Several mini-piezometers were identified which have been destroyed (MP09-06, MP09-07 and MP09-13).
- Hydraulic conductivity tests have previously been completed for several of the monitoring wells. As hydraulic conductivity tests measure the properties of the aquifer encountered by the well, and this is not expected to vary, it is EBA’s opinion that repeated hydraulic conductivity testing is redundant.

As indicated previously in the field sampling report; EBA also made the following relevant observations:

- Well locations provided as UTMs in NAD83 projection, Zone 08V did not correspond to well locations on the ground. There may be a problem with zoning and/or projection.

- MP09-01, MP09-02, MP09-03, MP09-08, and MP09-14 are drive point micro-piezometers installed in water bodies (Pony Creek and standing water on the Tailings Pond).
- The levelloggers installed in GLL07-01 and MW09-21 were not downloaded at this time as they were frozen in place.

9.0 RECOMMENDATIONS

EBA recommends the following actions be taken to increase field program efficiency and value for long term monitoring at this site:

- TH09-01 should be recorded in AAM records as a test hole only and removed from future sampling lists.
- All Solinst Levelloggers® should be installed on direct read cables for ease of access when the loggers may be frozen in place. This includes MW09-03, MW09-04, MW09-21, MW09-23, GLL07-01.
- MP09-06, MP09-07 and MP09-13 are destroyed and should be removed from the sampling list and/or replaced with working mini-piezometers. AAM should assess the importance of samples from these locations and consider re-installing. Some consideration should also be given to location as it appears from observation and discussion with onsite personnel that these wells were destroyed due to glaciation in the Diversion Channel.
- Where samples are collected from mini-piezometers installed in surface water locations and from surface water discharge points that are located in close proximity to one another, the chemistry results should be compared.
- Hydraulic conductivity values in individual wells are not expected to change. Existing hydraulic conductivity data should be compiled, and only those wells that have not been previously tested due to insufficient water, or those wells where significant variation has been noted between tests, should be targeted for future hydraulic conductivity testing.

The following recommendations were provided in the field sampling report:

- A summary of well installation details compiled from completion reports including well logs and well completion diagrams should be included as a part of the field sampling package.
- Well locations taken with handheld GPS as UTM's in NAD83 projection and Zone 08V have been included in Table 1 of this report. These locations should be compared with the surveyed locations to determine the problem with the coordinates provided.
- MP09-01, MP09-02, MP09-03, MP09-08, and MP09-14 should be identified as "micro-piezometers". Consideration should be given to sampling surface water concurrently with groundwater sampling as the groundwater quality in these locations may be relevant to surface water quality.
- Levelloggers installed in GLL07-01 and MW09-21 should be attached to direct read cables so that data can be downloaded at any time.

- Photos of all wells should be included with the sampling program to confirm the correct location and note any changes since the last sampling event.

10.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Yukon Government Assessment and Abandoned Mines and their agents. EBA Engineering Consultants Ltd. operating as EBA, A Tetra Tech Company, does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Yukon Government Assessment and Abandoned Mines, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in the contract, and in EBA General Conditions provided in Appendix C of this report.

11.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Sincerely,
EBA Engineering Consultants Ltd.

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TABLES

Table 1	Monitoring Point Location and Details
Table 2	Testing Completed
Table 3	Groundwater and Seepage Chemistry Results
Table 4	Well Data for Hydraulic Conductivity Analysis
Table 5	Measured Hydraulic Conductivity (in text)

Table 1 - Monitoring Point Location and Details

Well ID	Location		Well Diameter (inches)	Date	Depth to Water (m bgs)	Depth to bottom (m bgs)	Reference Stick-up (m ags)	Relative Recharge Rate	Observed Well Condition	
	Location Description	Coordinates ¹								
		Easting								Northing
MW09-01	Tailings pond - southeast	6880557	389393	1	2-Jun-12	5.54	10.13	0.83	Slow	Missing well cap
MW09-02	Tailings pond - southeast	6880557	389394	1	2-Jun-12	2.01	4.99	0.68	Slow	Missing well cap
MW09-03	Tailings pond - southeast	6880555	389420	2	2-Jun-12	5.21	9.44	0.49	Slow	Good
MW09-04	Tailings pond - southeast	6880555	389420	2	2-Jun-12	2.905	7.16	0.51	Slow	Good
MW09-05	Tailings pond - southeast	- ²	-	-	-	-	-	-	-	Submerged
MW09-06	Tailings pond - southeast	-	-	-	-	-	-	-	-	Submerged
MW09-07	Tailings pond - southeast	-	-	-	-	-	-	-	-	Submerged
MW09-08	Below seepage pond	6880578	389616	2	3-Jun-12	FR ³ - 1.07	-	0.99	-	Well frozen
MW09-11	Sands above tailings pond	6880711	389040	2	4-Jun-12	DR ⁴ - 4.09	4.09	0.8	-	Well dry
MW09-13	Waste rock east of open pit	6881661	389005	2	4-Jun-12	FR - 8.23	-	0.77	-	Well frozen
MW09-14	Waste rock east of open pit	6881661	389006	2	4-Jun-12	FR - 4.41	-	0.75	-	Well frozen
MW09-15	Waste rock east of open pit	6881724	388917	2	4-Jun-12	FR - 13.22	-	0.87	-	Levellogger frozen in place on direct read cable. Cap off.
MW09-16	East of mill	6881090	387992	2	1-Jun-12	FR - 0.40	-	1.05	-	Well frozen
MW09-17	East of mill	6880970	388078	2	1-Jun-12	2.565	4.81	0.83	Fast	Good
MW09-18	East of mill	6880984	388050	2	1-Jun-12	2.475	6.875	0.905	Fast	Good
MW09-19	East of mill	6881016	388051	2	1-Jun-12	FR - 0.88	-	0.95	-	Well frozen
MW09-20	Seepage pond crest	6880588	389587	2	2-Jun-12	DR - 2.75	2.75	0.92	-	Well dry
MW09-21	Between tailings dam and seepage pond	6880573	389538	2	3-Jun-12	FR - 0.90	-	0.74	-	Levellogger frozen in place on cable
MW09-22	Tailings pond dam	6880549	389496	2	3-Jun-12	3.4	4.42	0.84	Slow	Good
MW09-23	Tailing dam crest	6880555	389459	2	2-Jun-12	11.25	14.89	0.92	Slow	Good
MW09-24	Sand north of seepage pond	6880621	389556	2	3-Jun-12	8.7	10.53	0.68	Fast	Good
MP09-01*	Pony Creek - upper creek north of Ketz shop	6881928	388706	0.4	5-Jun-12	-0.53	0.12	1.47	Slow	Good
MP09-02*	Pony Creek - middle creek west of u/s sampling point	6881810	388867	0.4	5-Jun-12	-0.41	0.2	1.37	Fast	Good
MP09-03*	Pony Creek - at u/s sampling point	6881736	388957	0.4	5-Jun-12	-0.1	0.87	0.7	V.Slow	Possibly damaged - no water recovered
MP09-04	North of seepage pond	6880608	389573	1	2-Jun-12	0.98	1.82	1.26	Fast	Good
MP09-05	West end of seepage pond	6880590	389546	1	3-Jun-12	0.25	0.75	1.09	Fast	Missing well cap
MP09-06	Diversion channel bridge	6880777	389466	0.4	-	-	-	-	-	Well destroyed
MP09-07	Diversion channel	-	-	0.4	-	-	-	-	-	Well destroyed
MP09-08*	Pony Creek - east of d/s sampling point	6881709	389156	0.4	5-Jun-12	-0.165	0.55	1.02	Slow	Strong sulphur odour to water
MP09-09	Tailings - west end	6880682	389239	1	4-Jun-12	FR - 0.45	-	1.73	-	Well frozen
MP09-10	Tailings - west end	6880683	389238	1	4-Jun-12	FR - 0.23	-	1.54	-	Well frozen
MP09-11	Tailings - west end	6880613	389221	1	4-Jun-12	FR - 0.83	-	1.3	-	Well frozen
MP09-12	Tailings - west end	6880613	389218	1	4-Jun-12	FR - 0.80	-	1.29	-	Well frozen
MP09-13	Diversion channel dome inlet	6880744	389075	0.4	4-Jun-12	-	-	-	-	Well destroyed
MP09-14	Tailings pond - northwest	6880719	389132	0.4	5-Jun-12	FR ~0.10	-	-0.90	-	Well frozen
GLL07-01	Waste rock east of open pit	6881778	388850	2	4-Jun-12	FR - 12.15	-	0.81	-	Levellogger frozen in place on cord
GLL07-02	Pony Creek addit	6881703	389070	2	4-Jun-12	DR - 5.75	5.75	1.37	-	Open - no cap
GLL07-03	Open pit	6881478	388952	2	1-Jun-12	FR - 1.52	-	1.07	-	Levellogger frozen in place on direct read cable
TH09-01	Tailings area?	-	-	-	-	-	-	-	-	Does not exist
Pit Transducer	Open pit lake	-	-	-	19-Jul-12	-	-	-	-	Levellogger on direct read cable
Seepage pond	Sampled near pumphouse	6880599	389559	-	3-Jun-12	-	-	-	-	Some ice on surface
Seepage outlet	Below seepage pond	6880593	389610	-	3-Jun-12	-	-	-	-	Flowing
Unknown 1	Below seepage pond	6880695	389602	2	2-Jun-12	3.68	3.87	0.45	-	No information on installation/purpose
Unknown 2	Below seepage pond	6880580	389606	2	3-Jun-12	FR - 0.97	-	0.43	-	Well frozen
Unknown 3	Below seepage pond	6880570	389613	2	3-Jun-12	-	-	-	-	Could not remove cap

NOTES

- All coordinates given in NAD83, Zone 08V ±5 m
- "-" indicates information not available/relevant
- FR - indicates frozen at given depth at time of sampling event
- DR - indicates dry at given depth at time of sampling event
- MW09-09, MW09-10, and MW09-12 do not exist

* water levels were measured from the top of pipe to the level of standing water surrounding the drive-point well.

Table 2: Testing Completed

Well ID	Field Work Completed					Comments
	Water Sample Collection Date	Hydraulic Test	Instrumentation			
			Type	Suspension Type	Downloaded (Y/N)	
MW09-01	2-Jun-12	Slug/bail	-		-	Cap missing
MW09-02	2-Jun-12	Slug/bail	-		-	Cap missing
MW09-03	2-Jun-12	Slug/bail	Solinst Levellogger	Wireline cable	Y	
MW09-04	2-Jun-12	Slug/bail	Solinst Levellogger	Wireline cable	Y	
MW09-05	-	-	-		-	Wells inaccessible - submerged
MW09-06	-	-	-		-	Wells inaccessible - submerged
MW09-07	-	-	-		-	Wells inaccessible - submerged
MW09-08	-	-	-		-	Frozen
MW09-11	-	-	-		-	Frozen
MW09-13	-	-	-		-	Frozen
MW09-14	-	-	-		-	Frozen
MW09-15	-	-	Solinst Levellogger	Direct read cable	Y	Frozen
MW09-16	-	-	-		-	Frozen @ 2.59m
MW09-17	1-Jun-12	Bail	-		-	
MW09-18	1-Jun-12	Bail	-		-	
MW09-19	-	-	-		-	Frozen @ 2.40m
MW09-20	-	-	-		-	Dry
MW09-21	-	-	Solinst Levellogger	Wireline cable	N	Frozen
MW09-22	4-Jun-12	Slug/bail	-		-	
MW09-23	3-Jun-12	Slug/bail	Solinst Levellogger	Wireline cable	Y	
MW09-24	6-Jun-12	Bail	-		-	
MP09-01	5-Jun-12	-	-		-	"Micro" piezometer
MP09-02	6-Jun-12	-	-		-	"Micro" piezometer
MP09-03	-	-	-		-	"Micro" piezometer. Dry/frozen?
MP09-04	3-Jun-12	Bail	-		-	
MP09-05	3-Jun-12	Bail	-		-	Cap missing
MP09-06	-	-	-		-	Destroyed (see photo)
MP09-07	-	-	-		-	Well not found, assumed destroyed
MP09-08	5-Jun-12	-	-		-	"Micro" piezometer
MP09-09	-	-	-		-	Frozen @ 2.175m
MP09-10	-	-	-		-	Frozen
MP09-11	-	-	-		-	Frozen @ 2.125m
MP09-12	-	-	-		-	Frozen @ 2.09m
MP09-13	-	-	-		-	Destroyed (see photo)
MP09-14	-	-	-		-	Frozen
GLL07-01	-	-	Solinst Levellogger	Nylon Cord ¹	N	Frozen
GLL07-02	-	-	-		-	Dry
GLL07-03	-	-	Solinst Levellogger and Barallogger	Direct read cable, and zip tie	Y	Frozen
Pit Transducer	-	-	Solinst Levellogger	Direct Read Cable	Y	
TH09-01	-	-	-		-	Well not found
Seepage pond	3-Jun-12	-	-		-	See photo for location
Seepage outlet	3-Jun-12	-	-		-	
Unknown 1	-	-	-		-	<0.3 m water in well
Unknown 2	-	-	-		-	Frozen at 1.40 m
Unknown 3	-	-	-		-	Could not open

NOTES

"-" indicates information not available/relevant
 MW09-09, MW09-10, and MW09-12 do not exist
 1. Nylon cord was observed to be frayed

Table 3: Groundwater and Seepage Chemistry Results

Monitoring Well ID	MP09-01		MP09-02	MP09-04	MP09-05	MP09-08	MW09-01	MW09-02	MW09-03	MW09-04	MW09-17	MW09-18		MW09-22		MW09-23	MW09-24	Seepage Discharge	Seepage Pond	Travel Blank	Field Blank	Filter Blank	Yukon CSR Aquatic Life ¹	MMER Standard ² Max. Monthly Mean Conc.	MMER Standard ² Max. Conc. In a Grab Sample	CCME Guideline ³						
	Sample Field ID	Dup 2										MW09-18	SP1	MW09-22	Dup 1																	
Date Sampled	5-Jun-12		6-Jun-12	3-Jun-12	3-Jun-12	5-Jun-12	3-Jun-12	2-Jun-12	2-Jun-12	2-Jun-12	1-Jun-12	1-Jun-12	1-Jun-12	4-Jun-12	2-Jun-12	6-Jun-12	3-Jun-12	3-Jun-12														
Ion Balance (%)	120	110	120	94.6	99.4	107	98.5	103	100	98.4	91.9	93.4	104	122	131	99.6	103	109	123													
Water type																																
Parameter	Units	Detection Limit	Results																				Provided for Comparison purposes only									
Field																																
Temperature	°C		12.2	6.9	4.9	4.4	8.7	4	12.2	12.8	8.5	2.6	3	15.5	7.7	1.4	3.5	3.9														
pH	pH_Units		6.77	7.15	6.97	6.85	8.2	7.16	7.12	9.04	9.06	7.02	6.98	6.35	7.07	7.18	7.19	7.12									6.5 - 9					
Electrical Conductivity	uS/cm		77	182	772	1308	692	1193	2155	1937	1743	1254	1242	566	1303	565	807	1045														
Specific Electrical Conductivity	uS/cm		102	277	1253	2155	1005	1994	2849	2533	2533	2192	2160	692	1944	1018	1367	1767														
Turbidity	NTU		1.63	1.37	1.45	7.12	2.33	7.54	8.21	0.36	1.18	0.68	1.5	15.2	181	18.4	55	9.48														
Dissolved O ₂	mg/L		7.6	2.85	5.26	1.63	10.1	3.18	4.21	3.36	2.8	3.27	1.54	3.12	0.8	5.12	9.3	1														
Physical Tests																																
Hardness (as CaCO ₃)	mg/L	5	57	47	181	724	1080	652	1010	1420	1490	1510	1380	1390	1550	312	329	1250	578	793	333											
Electrical Conductivity	uS/cm	1	101	100	273	1230	1980	980	1850	2710	2460	2470	2120	2100	2140	539	536	1960	980	1330	527											
pH	pH_Units	0.01	7	7	7.54	7.59	7.19	8.09	7.53	6.98	8.06	8.15	7.68	7.7	7.74	7.04	7.18	7.52	7.65	7.6	7.68						6.5 - 9					
Total Dissolved Solids	mg/L	1	80	71	210	999	1680	769	1490	2460	2300	2330	1790	1770	1840	401	404	1710	769	1100	400											
Anions and Nutrients																																
Ammonia as N	mg/L	0.01	0.09	0.01	0.01	0.06	10.7	0.05	8.5	12.3	9.6	8.3	0.05	0.01	0.05	1.02	0.83	7.4	0.05	4.41	1					1.31-18.4 ^{pH}	-	-	-	0.73-19.0 ^{pH}		
Bicarbonate	mg/L	5	21	17	106	235	505	332	600	58	53	58	522	483	473	196	192	354	209	261	135											
Bromide	mg/L	0.02	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2											
Carbonate	mg/L	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6											
Chloride	mg/L	0.05	1	0.7	0.5	0.5	6.2	0.8	6.6	4	1.9	2	1.4	0.8	0.8	0.5	0.8	0.8	0.6	1.3	0.7											
Hydroxide (OH)	mg/L	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5											
Alkalinity, Total (as CaCO ₃)	mg/L	5	17	14	87	192	415	273	492	48	44	48	428	396	388	161	158	290	171	214	111											
Cyanate	mg/L	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	1.1	0.2	0.3	0.2											
Cyanide, Total	mg/L	0.002	0.002	0.002	0.002	0.028	3	0.002	4.9	0.5	0.17	0.13	0.002	0.002	0.002	0.018	0.015	0.052	0.004	0.58	0.067					0.05	1	2	0.005			
Thiocyanate	mg/L	0.3	0.7	0.3	0.4	0.4	11	0.3	31	3.3	0.4	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	3.7	0.6											
Dissolved Organic Carbon	mg/L	0.5	10.7	11	13	5.9	31	4.8	31.9	5.8	5.4	5.8	3.4	3.2	3	11	11.4	10.8	5.7	14.5	7.5											
Fluoride	mg/L	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.47	0.39	0.45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					2-3 ^H	-	-	-	0.12		
Sulfate (SO ₄)	mg/L	0.5	31	30	68	589	894	345	707	1670	1590	1620	1070	1070	1080	123	120	1010	403	604	181					1000	-	-	-	-		
Sulphide	mg/L	0.005	0.005	0.005	0.005	0.005	0.008	0.005	0.014	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.008	0.005	0.005	0.005					0.02	-	-	-	-		
Nitrate and Nitrite (as N)	mg/L	0.01	0.2	0.2	0.2	0.92	0.57	0.2	0.49	0.2	0.2	0.2	2.24	0.88	0.9	6.12	6.13	0.4	4.92	2.58	1.36					400	-	-	-	-		
Nitrate (as N)	mg/L	0.01	0.1	0.1	0.1	0.65	0.23	0.1	0.1	0.1	0.1	0.1	1.69	0.48	0.37	6.12	6.13	0.4	4.92	2.58	1.36					400	-	-	-	13		
Nitrite (as N)	mg/L	0.01	0.1	0.1	0.27	0.34	0.1	0.49	0.1	0.1	0.1	0.1	0.55	0.4	0.54	0.1	0.1	0.1	0.1	0.1	0.1					0.2	-	-	-	0.06		
Orthophosphate (PO ₄ -P)	mg/L	0.002	0.012	0.022	0.023	0.022	0.031	0.054	0.102	0.133	1	1.29	0.029	0.038	0.045	0.027	0.023	0.018	0.027	0.023	0.011					-	-	-	-	-		
Total Metals																																
Aluminum (Al)-Total	mg/L	0.005	0.081	0.086	0.028	0.005	0.04	0.013	0.066	0.005	0.005	0.007	0.005	0.005	0.005	0.042	0.479	0.165	0.112	0.023	0.031	0.005	0.005	0.005						0.1		
Antimony (Sb)-Total	mg/L	0.0002	0.0018	0.0018	0.0005	0.0014	0.0006	0.0002	0.0006	0.0044	0.757	0.47	0.0012	0.0005	0.0002	0.0004	0.0002	0.0004	0.0002	0.0005	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.05	0.5	1.00	0.005		
Arsenic (As)-Total	mg/L	0.0002	0.0047	0.0033	0.0110	0.0002	0.0156	0.0121	0.105	15.5	3.7	0.0179	0.0552	0.0531	0.0193	0.02	0.0213	0.002	0.0392	0.0039	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.05	0.5	1.00	0.005		
Barium (Ba)-Total	mg/L	0.001	0.044	0.044	0.046	0.158	0.086	0.147	0.008	0.009	0.005	0.008	0.007	0.007	0.008	0.104	0.146	0.141	0.067	0.051	0.001	0.001	0.001	0.001	0.001	10	-	-	-	-		
Beryllium (Be)-Total	mg/L	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.053	
Bismuth (Bi)-Total	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Boron (B)-Total	mg/L	0.004	0.005	0.005	0.005	0.03	0.079	0.006	0.072	0.032	0.157	0.231	0.513	0.024	0.021	0.022	0.023	0.105	0.019	0.082	0.025	0.005	0.005	0.005	0.005	50	-	-	-	1.5		
Cadmium (Cd)-Total	mg/L	0.00001	0.00011	0.00013	0.00004	0.00011	0.00007	0.00002	0.00005	0.00095	0.00002	0.00005	0.00001	0.00004	0.00006	0.00004	0.00005	0.0003	0.00006	0.00061	0.00027	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Calcium (Ca)-Total (Routine)	mg/L	0.01	15.6	13.2	52.6	206	360	176	324	478	505	504	225	235	291	109	90.1	410	176	246	99.7	0.05	0.05	0.05	0.05							
Chromium (Cr)-Total	mg/L	0.0004	0.0004	0.0004	0.0004	0.0005	0.0014	0.0004	0.0029	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.01	-	-	-	0.001 ⁴		
Cobalt (Co)-Total	mg/L	0.00002	0.00098	0.001	0.00104	0.00078	0.0215	0.00069	0.00885	0.0131	0.00197	0																				

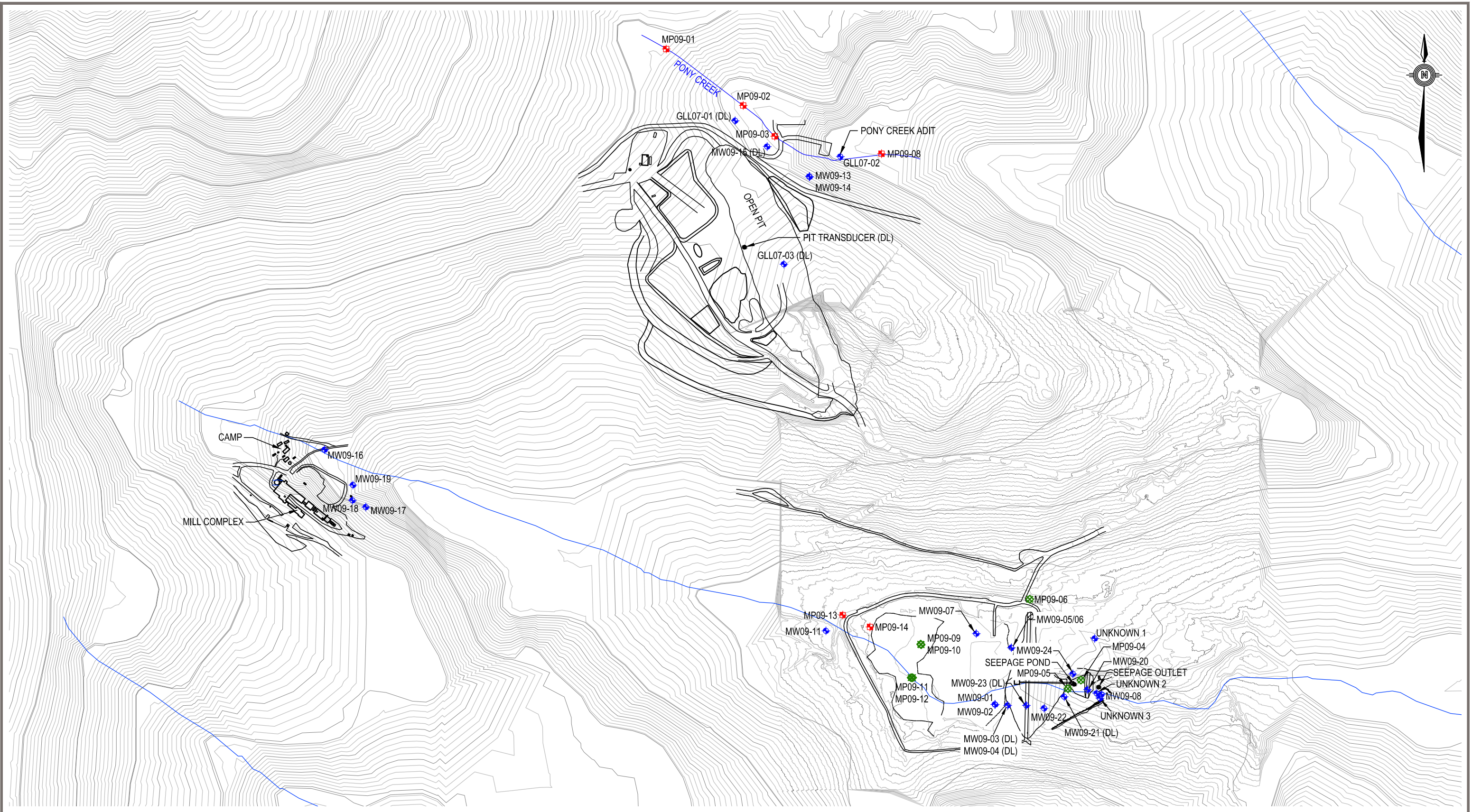
Table 4: Well Data for Hydraulic Conductivity Analysis

Well ID	Well Diameter	Well Depth	Depth to Water	Screen Length	Standing Water Column June 2012	Comments
	mm	m bgs	m bgs	m	m	
MW09-01	25	10.13	5.54	0.3	4.59	
MW09-02	25	4.99	2.01	1.52	2.98	
MW09-03	51	9.44	5.21	1.06	4.23	
MW09-04	51	7.16	2.905	1.52	4.255	
MW09-05	-	6.69	-	0.92	-	Well was inaccessible during site visit
MW09-06	-	4.74	-	3.04	-	Well was inaccessible during site visit
MW09-07	-	2.36	-	0.25	-	Well was inaccessible during site visit
MW09-08	51	3.66	FR3 - 1.07	1.52		Frozen
MW09-11	51	4.09	DR4 - 4.09	1.53	0	
MW09-13	51	35.97	FR - 8.23	6.1		Frozen
MW09-14	51	10.67	FR - 4.41	3.04		Frozen
MW09-15	51	37.03	FR - 13.22	3.04		Frozen
MW09-16	51	1.78	FR - 0.40	1.52		Frozen
MW09-17	51	4.81	2.565	1.53	2.245	
MW09-18	51	6.875	2.475	0.79	4.4	
MW09-19	51	5.11	FR - 0.88	1.52		Frozen
MW09-20	51	2.75	DR - 2.75	1.52	0	Dry well
MW09-21	51	4.39	FR - 0.90	1.53		Frozen
MW09-22	51	4.42	3.4	1.53	1.02	
MW09-23	51	14.89	11.25	1.52	3.64	
MW09-24	51	10.53	8.7	3.05	1.83	
MP09-01	10	0.12	-0.53	0.3	0.65	Well not intended for hydraulic testing
MP09-02	10	0.2	-0.41	0.3	0.61	Well not intended for hydraulic testing
MP09-03	10	0.87	-0.1	0.3	0.97	Well not intended for hydraulic testing
MP09-04	25	1.82	0.98	0.91	0.84	
MP09-05	25	0.75	0.25	0.3	0.5	
MP09-06	10	0.93	-	0.3	-	Well destroyed
MP09-07	10	1.16	-	0.3	-	Well destroyed
MP09-08	10	0.55	-0.165	0.3	0.715	Well not intended for hydraulic testing
MP09-09	25	4.26	FR - 0.45	0.2		Frozen
MP09-10	25	3.86	FR - 0.23	0.3		Frozen
MP09-11	25	3.78	FR - 0.83	0.3		Frozen
MP09-12	25	3.07	FR - 0.80	0.3		Frozen
MP09-13	10	0.67	-	0.3	-	Well destroyed
MP09-14	10	0.93	FR ~0.10	0.3		Frozen
GLL07-01	51	18.29	FR - 12.15	7.62		Frozen
GLL07-02	51	5.75	DR - 5.75	2.73	0	Dry well
GLL07-03	51	10.6	FR - 1.52	1.69		Frozen
Unknown 1	51	3.87	3.68	-	0.19	Well not included in sampling round request
Unknown 2	51	-	FR - 0.97	-		Frozen
Unknown 3	51	-	-	-	-	Could not open well

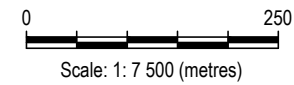
FIGURES

Figure 1 Monitoring Point Locations

Q:\Whitehorse\Data\0201\Drawings\Mt Nansen\W23 101586 Groundwater Investigations\W23 101586 Fig_1_R1.dwg [FIGURE 1] November 07, 2012 - 9:49:28 am (BY: BUCHAN, CAMERON)



- LEGEND:**
- ◆ - MONITORING WELL LOCATION (2" DIAMETER)
 - - DRIVE POINT LOCATION (0.4" DIAMETER)
 - ⊗ - MINI PIEZOMETER LOCATION (1" DIAMETER)
 - - TESTHOLE / SAMPLE LOCATION
 - (DL) - INDICATES DATALOGGER



CLIENT

Yukon
Government

eba
A TETRA TECH COMPANY

GROUNDWATER SAMPLING REPORT MOUNT NANSEN MINE SITE, YUKON				
MONITORING POINT LOCATIONS				
PROJECT NO. W23101586	DWN CB	CKD TJR	REV 1	Figure 1
OFFICE EBA-WHSE	DATE November 6, 2012			

PHOTOGRAPHS

Photo 1	MW09-01 and MW09-02 in the Southeast Tailings
Photo 2	MW09-03 and MW09-04 in the Southeast Tailings
Photo 3	MW09-05, MW09-06 (right arrow) and MW09-07 (left arrow)
Photo 4	MW09-08 East of Seepage Pond
Photo 5	MW09-11 in the Sands West of the Tailings Pond
Photo 6	MW09-13 and MW09-14 along the Main Mount Nansen Access Road East of the Open Pit
Photo 7	MW09-15 Located Along the Main Mount Nansen Access Road East of the Open Pit
Photo 8	MW09-16 Northeast and Downgradient of the Mill Complex
Photo 9	MW09-17, East and Downgradient of Mill Complex
Photo 10	MW09-18, East and Downgradient of the Mill Complex
Photo 11	MW09-19 Located East of Mill Complex
Photo 12	MW09-20, Seepage Pond Crest
Photo 13	MW09-21, West and Upgradient of Seepage Pond
Photo 14	MW09-22 Front of the Tailings Dam
Photo 15	MW09-23 on the Tailings Dam Crest
Photo 16	MW09-24 in Sand North of Seepage Pond
Photo 17	MP09-01, Drive-point Well (indicated by arrow)
Photo 18	MP09-02 Drive-Point Well in Pony Creek
Photo 19	MP09-03 in Pony Creek
Photo 20	MP09-04 Located North of the Seepage Pond
Photo 21	MP09-05 Located at the West Edge of the Seepage Pond
Photo 22	MP09-06 Located under the Dome Creek Diversion Ditch Bridge (indicated by arrow)

Photo 23	MP09-07 Should Be Located in this Section of Dome Creek. It is not there, and EBA assumes it was destroyed during ditch cleaning efforts the previous winter
Photo 24	MP09-08 Drive-point Well Located about 50 m Downstream of the Downstream Surface Water Sampling Site on Pony Creek
Photo 25	MP09-09 and MP09-10 Mini-Piezometers Located in the West End of the Tailings Pond
Photo 26	MP09-11 and MP09-12 Located in the West End of the Tailings Pond
Photo 27	MP09-13 Located in the Dome Creek Diversion at the Intersection of Dome Creek
Photo 28	MP09-14 Located in the Northwest Corner of the Tailings Pond
Photo 29	GLL07-01 Located East of the Open Pit
Photo 30	GLL07-02 Located in Front of the Pony Creek Adit
Photo 31	GLL07-03 Located in the Open Pit
Photo 32	Seepage Pond Sampling Location
Photo 33	Seepage Discharge Point. Note MW09-08 in Background
Photo 34	Unknown 1 – Located East and Cross-Gradient of Seepage Pond
Photo 35	Unknown 2 (right arrow) and Unknown 3 (left arrow) Located East of Seepage Pond



Photo 1: MW09-01 and MW09-02 in the Southeast Tailings. Also shown in this photograph are the Heron Instruments water level sounder and cable for the Solinst Levelogger used during the sampling event. June 2, 2012



Photo 2: MW09-03 and MW09-04 in the Southeast Tailings. Note the cable in each well used to suspend Solinst Leveloggers. June 2, 2012



Photo 3: MW09-05, MW09-06 (right arrow) and MW09-07 (left arrow). Note that all three wells are partially submerged. June 2, 2012



Photo 4: MW09-08 East of Seepage Pond. Note seepage discharge point in the background. June 3, 2012



Photo 5: MW09-11 in the Sands West of the Tailings Pond. June 4, 2012



Photo 6: MW09-13 and MW09-14 along the Main Mount Nansen Access Road East of the Open Pit. June 4, 2012



Photo 7: MW09-15 Located Along the Main Mount Nansen Access Road East of the Open Pit. June 4, 2012



Photo 8: MW09-16 Northeast and Downgradient of the Mill Complex. Note the main mill building in the background. June 1, 2012



Photo 9: MW09-17, East and Downgradient of Mill Complex. June 1, 2012



Photo 10: MW09-18, East and Downgradient of the Mill Complex. Note peristaltic pump set-up. June 1, 2012



Photo 11: MW09-19 Located East of Mill Complex. June 2, 2012



Photo 12: MW09-20, Seepage Pond Crest. Note the thermistor casing in the foreground. June 2, 2012



Photo 13: MW09-21, West and Upgradient of Seepage Pond. Note seepage pond and pumphouse in background and levellogger cable wrapped around the top of the protective casing. June 3, 2012



Photo 14: MW09-22 Front of the Tailings Dam. June 3, 2012



Photo 15: MW09-23 on the Tailings Dam Crest. Note the two hose bladder pump set-up and the flow through cell for monitoring field parameters. June 2, 2012



Photo 16: MW09-24 in Sand North of Seepage Pond. June 3, 2012



Photo 17: MP09-01, Drive-point Well (indicated by arrow). Note the Pony Creek weir in the background. June 5, 2012



Photo 18: MP09-02 Drive-Point Well in Pony Creek. June 4, 2012



Photo 19: MP09-03 in Pony Creek. Note that this Drive-point well is at the upstream Pony Creek surface water sampling point. June 4, 2012



Photo 20: MP09-04 Located North of the Seepage Pond. June 3, 2012



Photo 21: MP09-05 Located at the West Edge of the Seepage Pond. June 3, 2012



Photo 22: MP09-06 Located under the Dome Creek Diversion Ditch Bridge (indicated by arrow). Note that the mini-piezometer is destroyed. June 4, 2012



Photo 23: MP09-07 Should Be Located in this Section of Dome Creek. It is not there, and EBA assumes it was destroyed during ditch cleaning efforts the previous winter. June 4, 2012



Photo 24: MP09-08 Drive-point Well Located about 50 m Downstream of the Downstream Surface Water Sampling Site on Pony Creek. June 4, 2012



Photo 25: MP09-09 and MP09-10 Mini-Piezometers Located in the West End of the Tailings Pond. June 4, 2012



Photo 26: MP09-11 and MP09-12 Located in the West End of the Tailings Pond. June 4, 2012



Photo 27: MP09-13 Located in the Dome Creek Diversion at the Intersection of Dome Creek. Note that this Drive-point well is destroyed. June 4, 2012



Photo 28: MP09-14 Located in the Northwest Corner of the Tailings Pond. June 4, 2012



Photo 29: GLL07-01 Located East of the Open Pit. June 4, 2012



Photo 30: GLL07-02 Located in Front of the Pony Creek Adit. June 4, 2012



Photo 31: GLL07-03 Located in the Open Pit. Note the barologger attached to the casing lid.
June 27, 2012



Photo 32: Seepage Pond Sampling Location. June 3, 2012



Photo 33: Seepage Discharge Point. Note MW09-08 in Background. June 3, 2012



Photo 34: Unknown 1 – Located East and Cross-Gradient of Seepage Pond. June 4, 2012



Photo 35: Unknown 2 (right arrow) and Unknown 3 (left arrow) Located East of Seepage Pond.
June 4, 2012

APPENDIX A

ANALYTICAL LABORATORY REPORT

Report Transmission Cover Page

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Contact & Affiliation	Address	Delivery Commitments
Sarah Sternbergh EBA Engineering Consultants Ltd -	Unit 6, 151 Industrial Road, Calcite Business Centre Whitehorse, Yukon Territory Y1A 2V3 Phone: (867) 668-3068 Fax: (867) 668-4349 Email: ssternbergh@eba.ca	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Report Approval] send (Test Report) by Email - Single Report
Tamra Reynolds EBA Engineering Consultants Ltd -	Unit 6, 151 Industrial Road, Calcite Business Centre Whitehorse, Yukon Territory Y1A 2V3 Phone: (867) 668-2071 Fax: (867) 668-4349 Email: tareynolds@eba.ca	On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Report Approval] send (Test Report) by Email - Single Report
Ingrid Fuller EBA Engineering Consultants Ltd -	Unit 6, 151 Industrial Road, Calcite Business Centre Whitehorse, Yukon Territory Y1A 2V3 Phone: (867) 668-2071 Fax: (867) 668-4349 Email: ifuller@eba.ca	On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report

Notes To Clients:

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Sample Custody

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Sample Disposal Date: September 19, 2012

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the top of this page.

Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	\$ 2.50 per sample
Storage for an additional 60 days	\$ 5.00 per sample
Storage for an additional 90 days	\$ 7.50 per sample

Return Sample, collect, to the address below via:

Greyhound

DHL

Purolator

Other (specify) _____

Name _____

Company _____

Address _____

Phone _____

Fax _____

Signature _____

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

		Reference Number	874987-1	874987-2	874987-3	
		Sample Date	Jun 03, 2012	Jun 02, 2012	Jun 02, 2012	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Tails / MW09-01	Tails / MW09-02	Tails / MW09-03	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Inorganic Nonmetallic Parameters						
Sulfide	Total	mg/L	0.014	<0.005	<0.005	0.005
Organic Carbon	Dissolved Nonpurgeable	mg/L	31.9	5.8	5.4	0.5
Cyanide	Total	mg/L	4.9	0.50	0.17	0.002
Cyanide	Weak Acid Dissociable	mg/L	0.010	0.004	0.004	0.004
Cyanate	Digested Sample	mg/L	<0.2	<0.2	<0.2	0.2
Thiocyanate		mg/L	31	3.3	0.4	0.3
Orthophosphate-P	Dissolved	mg/L	0.102	0.133	1.0	0.002
Ammonia - N		mg/L	8.5	12.3	9.6	
Metals Dissolved						
Sulfur	Dissolved	mg/L	245	593	510	0.2
Aluminum	Dissolved	mg/L	0.024	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0002	0.0032	0.7020	0.0002
Arsenic	Dissolved	mg/L	0.0468	15.10	3.61	0.0002
Barium	Dissolved	mg/L	0.109	0.008	0.009	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.110	0.051	0.166	0.004
Cadmium	Dissolved	mg/L	<0.00001	0.00056	<0.00001	0.00001
Chromium	Dissolved	mg/L	0.0023	<0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00814	0.0123	0.00182	0.00002
Copper	Dissolved	mg/L	0.001	0.002	0.001	0.001
Lead	Dissolved	mg/L	<0.0001	0.0008	0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.025	0.002	0.001
Molybdenum	Dissolved	mg/L	0.0009	0.0050	0.0087	0.0001
Nickel	Dissolved	mg/L	0.004	0.008	0.005	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.01	<0.01	<0.010	0.01
Strontium	Dissolved	mg/L	1.100	1.180	1.610	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	0.00022	0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0009	<0.0004	<0.0004	0.0004
Vanadium	Dissolved	mg/L	0.0038	<0.0001	0.0002	0.0001
Zinc	Dissolved	mg/L	0.002	0.414	0.003	0.001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-1	874987-2	874987-3		
	Sample Date	Jun 03, 2012	Jun 02, 2012	Jun 02, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Tails / MW09-01	Tails / MW09-02	Tails / MW09-03		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Dissolved - Continued						
Zirconium	Dissolved	mg/L	0.0015	0.0001	<0.0001	0.0001
Metals Total						
Calcium	Total	mg/L	326	477	505	0.05
Iron	Total	mg/L	48.2	28.2	0.012	0.01
Magnesium	Total	mg/L	66.6	75.2	82.7	0.05
Manganese	Total	mg/L	5.82	31.5	1.09	0.005
Phosphorus	Total	mg/L	0.226	6.6	1.17	0.01
Potassium	Total	mg/L	9.3	86	41	0.1
Silicon	Total	mg/L	7.31	5.37	9.70	0.05
Sulfur	Total	mg/L	240	590	523	0.1
Sodium	Total	mg/L	84.4	128	63.3	0.02
Titanium	Total	mg/L	<0.001	<0.0010	<0.0010	0.001
Aluminum	Total	mg/L	0.066	<0.005	<0.005	0.005
Antimony	Total	mg/L	0.0006	0.0044	0.757	0.0002
Arsenic	Total	mg/L	0.105	15.5	3.65	0.0002
Barium	Total	mg/L	0.147	0.008	0.009	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.072	0.032	0.157	0.004
Cadmium	Total	mg/L	0.00005	0.00095	0.00002	0.00001
Chromium	Total	mg/L	0.0029	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00885	0.0131	0.00197	0.00002
Copper	Total	mg/L	0.002	0.002	0.002	0.001
Lead	Total	mg/L	0.0012	0.0031	0.0002	0.0001
Lithium	Total	mg/L	<0.001	0.027	0.002	0.001
Molybdenum	Total	mg/L	0.0009	0.0054	0.0094	0.0001
Nickel	Total	mg/L	0.004	0.008	0.005	0.001
Selenium	Total	mg/L	0.0007	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	<0.00001	<0.00001	0.00001	0.00001
Strontium	Total	mg/L	1.18	1.25	1.69	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	0.00024	0.00001	0.00001
Thorium	Total	mg/L	0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	0.0004	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0010	<0.0004	<0.0004	0.0004
Vanadium	Total	mg/L	0.0125	<0.0001	0.0002	0.0001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

		Reference Number	874987-1	874987-2	874987-3	
		Sample Date	Jun 03, 2012	Jun 02, 2012	Jun 02, 2012	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Tails / MW09-01	Tails / MW09-02	Tails / MW09-03	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Total - Continued						
Zinc	Total	mg/L	0.005	0.426	0.002	0.001
Zirconium	Total	mg/L	0.0026	0.0005	0.0003	0.0001
Routine Water						
pH	at 25 °C		7.53	6.98	8.06	
Electrical Conductivity	µS/cm at 25 C		1850	2710	2460	1
Calcium	Dissolved	mg/L	324	478	483	0.1
Iron	Dissolved	mg/L	29.5	27.6	0.060	0.005
Magnesium	Dissolved	mg/L	49.5	54.8	69.3	0.1
Manganese	Dissolved	mg/L	5.73	31.2	1.04	0.001
Phosphorus	Dissolved	mg/L	0.12	2.3	1.09	0.01
Potassium	Dissolved	mg/L	8.5	83	39	0.1
Silicon	Dissolved	mg/L	7.11	5.76	9.44	0.05
Sodium	Dissolved	mg/L	75.1	124	59.7	0.1
Bicarbonate		mg/L	600	58	53	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	492	48	44	5
Bromide	Dissolved	mg/L	<0.2	<0.2	<0.2	0.02
Chloride	Dissolved	mg/L	6.6	4.0	1.9	0.05
Fluoride	Dissolved	mg/L	<0.1	0.47	0.39	0.01
Nitrate - N	Dissolved	mg/L	<0.1	<0.1	<0.1	0.01
Nitrite - N	Dissolved	mg/L	0.49	<0.1	<0.1	0.01
Nitrate and Nitrite - N	Dissolved	mg/L	0.49	<0.2	<0.2	0.01
Sulfate (SO4)	Dissolved	mg/L	707	1670	1590	0.5
Hardness	as CaCO3	mg/L	1010	1420	1490	5
Total Dissolved Solids	Calculated	mg/L	1490	2460	2300	1
Ionic Balance		%	98.5	103	100	90-110

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-4	874987-5	874987-6		
	Sample Date	Jun 02, 2012	Jun 01, 2012	Jun 01, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Tails / MW09-04	Mill / MW09-17	Mill / MW09-18		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Inorganic Nonmetallic Parameters						
Sulfide	Total	mg/L	0.006	<0.005	<0.005	0.005
Organic Carbon	Dissolved Nonpurgeable	mg/L	5.8	3.4	3.2	0.5
Cyanide	Total	mg/L	0.13	<0.002	<0.002	0.002
Cyanide	Weak Acid Dissociable	mg/L	0.006	<0.004	<0.004	0.004
Cyanate	Digested Sample	mg/L	<0.2	<0.2	<0.2	0.2
Thiocyanate		mg/L	0.4	0.5	<0.3	0.3
Orthophosphate-P	Dissolved	mg/L	1.29	0.029	0.038	0.002
Ammonia - N		mg/L	8.3	0.05	<0.01	
Metals Dissolved						
Sulfur	Dissolved	mg/L	542	357	360	0.2
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.4200	0.0012	0.0005	0.0002
Arsenic	Dissolved	mg/L	3.60	0.0208	0.0577	0.0002
Barium	Dissolved	mg/L	0.005	0.008	0.007	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.234	0.537	0.034	0.004
Cadmium	Dissolved	mg/L	0.00001	<0.00001	0.00006	0.00001
Chromium	Dissolved	mg/L	<0.0004	0.0008	0.0007	0.0004
Cobalt	Dissolved	mg/L	0.00187	0.00034	0.00043	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.003	0.023	0.020	0.001
Molybdenum	Dissolved	mg/L	0.0071	<0.0001	<0.0001	0.0001
Nickel	Dissolved	mg/L	0.005	0.003	0.004	0.001
Selenium	Dissolved	mg/L	<0.0006	0.0016	0.0014	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	1.420	0.948	0.946	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00006	0.00012	0.00022	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	<0.0004	0.0056	0.0054	0.0004
Vanadium	Dissolved	mg/L	0.0002	0.0004	0.0002	0.0001
Zinc	Dissolved	mg/L	0.124	0.002	0.003	0.001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-4	874987-5	874987-6		
	Sample Date	Jun 02, 2012	Jun 01, 2012	Jun 01, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Tails / MW09-04	Mill / MW09-17	Mill / MW09-18		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Dissolved - Continued						
Zirconium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Metals Total						
Calcium	Total	mg/L	494	291	297	0.05
Iron	Total	mg/L	0.092	0.022	0.038	0.01
Magnesium	Total	mg/L	76.0	195	186	0.05
Manganese	Total	mg/L	2.13	<0.005	0.502	0.005
Phosphorus	Total	mg/L	1.43	0.038	0.126	0.01
Potassium	Total	mg/L	46	6.8	6.6	0.1
Silicon	Total	mg/L	9.20	4.50	4.43	0.05
Sulfur	Total	mg/L	534	331	346	0.1
Sodium	Total	mg/L	61.2	14.3	10.0	0.02
Titanium	Total	mg/L	<0.0010	<0.0010	<0.0010	0.001
Aluminum	Total	mg/L	0.007	<0.005	<0.005	0.005
Antimony	Total	mg/L	0.470	0.0012	0.0005	0.0002
Arsenic	Total	mg/L	3.69	0.0179	0.0552	0.0002
Barium	Total	mg/L	0.005	0.008	0.007	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.231	0.513	0.024	0.004
Cadmium	Total	mg/L	0.00005	<0.00001	0.00004	0.00001
Chromium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00195	0.00048	0.00042	0.00002
Copper	Total	mg/L	0.001	<0.001	<0.001	0.001
Lead	Total	mg/L	0.0017	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L	0.003	0.024	0.021	0.001
Molybdenum	Total	mg/L	0.0077	<0.0001	<0.0001	0.0001
Nickel	Total	mg/L	0.006	0.003	0.004	0.001
Selenium	Total	mg/L	<0.0006	0.0015	0.0013	0.0006
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	1.45	0.987	0.996	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	0.00007	0.00012	0.00024	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	<0.0004	0.0056	0.0056	0.0004
Vanadium	Total	mg/L	0.0001	0.0002	<0.0001	0.0001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

		Reference Number	874987-4	874987-5	874987-6	
		Sample Date	Jun 02, 2012	Jun 01, 2012	Jun 01, 2012	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Tails / MW09-04	Mill / MW09-17	Mill / MW09-18	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Total - Continued						
Zinc	Total	mg/L	0.146	0.003	0.002	0.001
Zirconium	Total	mg/L	0.0002	<0.0001	<0.0001	0.0001
Routine Water						
pH	at 25 °C		8.15	7.68	7.70	
Electrical Conductivity	µS/cm at 25 C		2470	2120	2100	1
Calcium	Dissolved	mg/L	504	225	235	0.1
Iron	Dissolved	mg/L	0.024	0.008	0.019	0.005
Magnesium	Dissolved	mg/L	61.8	199	194	0.1
Manganese	Dissolved	mg/L	1.73	<0.001	0.425	0.001
Phosphorus	Dissolved	mg/L	1.20	0.03	0.04	0.01
Potassium	Dissolved	mg/L	46	5.6	5.5	0.1
Silicon	Dissolved	mg/L	7.89	3.94	3.52	0.05
Sodium	Dissolved	mg/L	47.7	11.4	8.2	0.1
Bicarbonate		mg/L	58	522	483	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	48	428	396	5
Bromide	Dissolved	mg/L	<0.2	<0.2	<0.2	0.02
Chloride	Dissolved	mg/L	2.0	1.4	0.8	0.05
Fluoride	Dissolved	mg/L	0.45	<0.1	<0.1	0.01
Nitrate - N	Dissolved	mg/L	<0.1	1.69	0.48	0.01
Nitrite - N	Dissolved	mg/L	<0.1	0.55	0.40	0.01
Nitrate and Nitrite - N	Dissolved	mg/L	<0.2	2.24	0.88	0.01
Sulfate (SO4)	Dissolved	mg/L	1620	1070	1070	0.5
Hardness	as CaCO3	mg/L	1510	1380	1390	5
Total Dissolved Solids	Calculated	mg/L	2330	1790	1770	1
Ionic Balance	%		98.4	91.9	93.4	90-110

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-7	874987-8	874987-9		
	Sample Date	Jun 04, 2012	Jun 02, 2012	Jun 06, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Tdam / MW09-22	Dam Crest / MW09-23	Seep Pond / MW09-24		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Inorganic Nonmetallic Parameters						
Sulfide	Total	mg/L	<0.005	0.008	<0.005	0.005
Organic Carbon	Dissolved Nonpurgeable	mg/L	11.0	10.8	5.7	0.5
Cyanide	Total	mg/L	0.018	0.052	0.004	0.002
Cyanide	Weak Acid Dissociable	mg/L	0.010	0.016	<0.004	0.004
Cyanate	Digested Sample	mg/L	0.4	1.1	<0.2	0.2
Thiocyanate		mg/L	<0.3	<0.3	<0.3	0.3
Orthophosphate-P	Dissolved	mg/L	0.027	0.018	0.027	0.002
Ammonia - N		mg/L	1.02	7.4	0.05	
Metals Dissolved						
Sulfur	Dissolved	mg/L	46.8	332	134	0.2
Aluminum	Dissolved	mg/L	0.055	0.011	<0.005	0.005
Antimony	Dissolved	mg/L	0.0004	0.0003	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0156	0.0070	0.0036	0.0002
Barium	Dissolved	mg/L	0.104	0.128	0.135	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.033	0.110	0.024	0.004
Cadmium	Dissolved	mg/L	0.00005	0.00005	0.00006	0.00001
Chromium	Dissolved	mg/L	0.0015	0.0008	0.0007	0.0004
Cobalt	Dissolved	mg/L	0.00762	0.0172	0.00092	0.00002
Copper	Dissolved	mg/L	0.001	0.001	0.007	0.001
Lead	Dissolved	mg/L	0.0002	<0.0001	0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	0.002	0.001
Molybdenum	Dissolved	mg/L	<0.0001	0.0037	0.0001	0.0001
Nickel	Dissolved	mg/L	0.009	0.005	0.002	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.01	<0.010	<0.01	0.01
Strontium	Dissolved	mg/L	0.397	1.030	0.835	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00001	0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0006	0.0022	0.0035	0.0004
Vanadium	Dissolved	mg/L	0.0019	0.0014	0.0003	0.0001
Zinc	Dissolved	mg/L	0.005	0.471	0.012	0.001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-7	874987-8	874987-9		
	Sample Date	Jun 04, 2012	Jun 02, 2012	Jun 06, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Tdam / MW09-22	Dam Crest / MW09-23	Seep Pond / MW09-24		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Dissolved - Continued						
Zirconium	Dissolved	mg/L	0.0006	0.0006	<0.0001	0.0001
Metals Total						
Calcium	Total	mg/L	94.4	414	170	0.05
Iron	Total	mg/L	18.9	25.8	0.330	0.01
Magnesium	Total	mg/L	10.4	63.6	40.8	0.05
Manganese	Total	mg/L	3.03	13.2	0.011	0.005
Phosphorus	Total	mg/L	0.044	0.061	0.052	0.01
Potassium	Total	mg/L	2.5	14.3	2.2	0.1
Silicon	Total	mg/L	6.59	5.55	5.78	0.05
Sulfur	Total	mg/L	1680	329	125	0.1
Sodium	Total	mg/L	11.8	23.0	13.8	0.02
Titanium	Total	mg/L	0.004	<0.0010	<0.001	0.001
Aluminum	Total	mg/L	0.042	0.165	0.112	0.005
Antimony	Total	mg/L	0.0004	0.0004	0.0002	0.0002
Arsenic	Total	mg/L	0.0193	0.0213	0.0020	0.0002
Barium	Total	mg/L	0.084	0.146	0.141	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.022	0.105	0.019	0.004
Cadmium	Total	mg/L	0.00004	0.00030	0.00006	0.00001
Chromium	Total	mg/L	0.0022	0.0020	0.0007	0.0004
Cobalt	Total	mg/L	0.00711	0.0187	0.00113	0.00002
Copper	Total	mg/L	0.004	0.004	0.009	0.001
Lead	Total	mg/L	0.0005	0.0020	0.0004	0.0001
Lithium	Total	mg/L	<0.001	<0.001	0.002	0.001
Molybdenum	Total	mg/L	<0.0001	0.0046	0.0001	0.0001
Nickel	Total	mg/L	0.003	0.005	0.002	0.001
Selenium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	<0.00001	0.00002	<0.00001	0.00001
Strontium	Total	mg/L	0.397	1.13	0.903	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	0.00001	<0.00001	0.00001
Thorium	Total	mg/L	0.0006	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0006	0.0027	0.0038	0.0004
Vanadium	Total	mg/L	0.0051	0.0052	0.0008	0.0001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-7	874987-8	874987-9		
	Sample Date	Jun 04, 2012	Jun 02, 2012	Jun 06, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Tdam / MW09-22	Dam Crest / MW09-23	Seep Pond / MW09-24		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Total - Continued						
Zinc	Total	mg/L	0.005	0.635	0.011	0.001
Zirconium	Total	mg/L	0.0012	0.0012	0.0001	0.0001
Routine Water						
pH	at 25 °C		7.04	7.52	7.65	
Electrical Conductivity		µS/cm at 25 C	539	1960	980	1
Calcium	Dissolved	mg/L	109	410	176	0.1
Iron	Dissolved	mg/L	13.5	13.5	0.028	0.005
Magnesium	Dissolved	mg/L	9.7	55.0	33.6	0.1
Manganese	Dissolved	mg/L	3.09	13.7	<0.001	0.001
Phosphorus	Dissolved	mg/L	0.03	0.04	0.04	0.01
Potassium	Dissolved	mg/L	3.7	15.8	2.2	0.1
Silicon	Dissolved	mg/L	6.29	5.44	5.75	0.05
Sodium	Dissolved	mg/L	14.6	20.5	13.1	0.1
Bicarbonate		mg/L	196	354	209	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	161	290	171	5
Bromide	Dissolved	mg/L	<0.2	<0.2	<0.2	0.02
Chloride	Dissolved	mg/L	<0.5	0.8	0.6	0.05
Fluoride	Dissolved	mg/L	<0.1	<0.1	<0.1	0.01
Nitrate - N	Dissolved	mg/L	6.12	0.40	4.92	0.01
Nitrite - N	Dissolved	mg/L	<0.1	<0.1	<0.1	0.01
Nitrate and Nitrite - N	Dissolved	mg/L	6.12	0.40	4.92	0.01
Sulfate (SO4)	Dissolved	mg/L	123	1010	403	0.5
Hardness	as CaCO3	mg/L	312	1250	578	5
Total Dissolved Solids	Calculated	mg/L	401	1710	769	1
Ionic Balance		%	122	99.6	103	90-110

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-10	874987-11	874987-12		
	Sample Date	Jun 05, 2012	Jun 06, 2012	Jun 03, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Pony Creek / MP09-01	Pony Creek / MP09-02	Seep Pond / MP09-04		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Inorganic Nonmetallic Parameters						
Sulfide	Total	mg/L	0.005	<0.005	<0.005	0.005
Organic Carbon	Dissolved Nonpurgeable	mg/L	10.7	13.0	5.9	0.5
Cyanide	Total	mg/L	<0.002	0.002	0.028	0.002
Cyanide	Weak Acid Dissociable	mg/L	<0.004	<0.004	0.008	0.004
Cyanate	Digested Sample	mg/L	0.2	<0.2	<0.2	0.2
Thiocyanate		mg/L	0.7	0.4	0.4	0.3
Orthophosphate-P	Dissolved	mg/L	0.012	0.023	0.022	0.002
Ammonia - N		mg/L	0.09	<0.01	0.06	
Metals Dissolved						
Sulfur	Dissolved	mg/L	12.9	28.5	156	0.2
Aluminum	Dissolved	mg/L	0.070	0.024	<0.005	0.005
Antimony	Dissolved	mg/L	0.0017	0.0005	0.0014	0.0002
Arsenic	Dissolved	mg/L	0.0060	0.0157	0.0029	0.0002
Barium	Dissolved	mg/L	0.041	0.043	0.152	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.01	0.008	0.032	0.004
Cadmium	Dissolved	mg/L	0.00011	0.00004	0.00009	0.00001
Chromium	Dissolved	mg/L	<0.0004	<0.0004	0.0008	0.0004
Cobalt	Dissolved	mg/L	0.00097	0.00093	0.00075	0.00002
Copper	Dissolved	mg/L	0.002	0.001	0.003	0.001
Lead	Dissolved	mg/L	0.0003	0.0002	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.001	0.001	0.001
Molybdenum	Dissolved	mg/L	0.0003	<0.0001	<0.0001	0.0001
Nickel	Dissolved	mg/L	<0.001	0.001	0.003	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	0.00008	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Strontium	Dissolved	mg/L	0.076	0.308	0.809	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00003	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	<0.0004	<0.0004	0.0044	0.0004
Vanadium	Dissolved	mg/L	0.0018	0.0007	0.0002	0.0001
Zinc	Dissolved	mg/L	0.022	0.005	0.005	0.001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-10	874987-11	874987-12		
	Sample Date	Jun 05, 2012	Jun 06, 2012	Jun 03, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Pony Creek / MP09-01	Pony Creek / MP09-02	Seep Pond / MP09-04		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Dissolved - Continued						
Zirconium	Dissolved	mg/L	0.0002	0.0001	<0.0001	0.0001
Metals Total						
Calcium	Total	mg/L	12.3	41.1	209	0.05
Iron	Total	mg/L	0.209	0.996	0.039	0.01
Magnesium	Total	mg/L	3.61	10.6	61.8	0.05
Manganese	Total	mg/L	0.154	0.273	<0.005	0.005
Phosphorus	Total	mg/L	0.039	0.043	0.029	0.01
Potassium	Total	mg/L	0.6	1.7	3.3	0.1
Silicon	Total	mg/L	4.34	4.89	5.58	0.05
Sulfur	Total	mg/L	9.2	21.1	174	0.1
Sodium	Total	mg/L	2.15	3.04	16.0	0.02
Titanium	Total	mg/L	0.002	<0.001	<0.001	0.001
Aluminum	Total	mg/L	0.081	0.028	<0.005	0.005
Antimony	Total	mg/L	0.0018	0.0005	0.0014	0.0002
Arsenic	Total	mg/L	0.0047	0.0110	<0.0002	0.0002
Barium	Total	mg/L	0.044	0.046	0.158	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	<0.005	<0.005	0.030	0.004
Cadmium	Total	mg/L	0.00011	0.00004	0.00011	0.00001
Chromium	Total	mg/L	<0.0004	<0.0004	0.0005	0.0004
Cobalt	Total	mg/L	0.00098	0.00104	0.00078	0.00002
Copper	Total	mg/L	0.002	0.001	0.003	0.001
Lead	Total	mg/L	0.0003	0.0003	<0.0001	0.0001
Lithium	Total	mg/L	<0.001	<0.001	0.002	0.001
Molybdenum	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Nickel	Total	mg/L	<0.001	0.001	0.003	0.001
Selenium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.079	0.336	0.845	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	0.0002	<0.0001	0.0001
Uranium	Total	mg/L	<0.0004	<0.0004	0.0048	0.0004
Vanadium	Total	mg/L	0.0016	0.0007	0.0002	0.0001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-10	874987-11	874987-12		
	Sample Date	Jun 05, 2012	Jun 06, 2012	Jun 03, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Pony Creek / MP09-01	Pony Creek / MP09-02	Seep Pond / MP09-04		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Total - Continued						
Zinc	Total	mg/L	0.022	0.004	0.005	0.001
Zirconium	Total	mg/L	0.0003	0.0002	<0.0001	0.0001
Routine Water						
pH	at 25 °C		7.00	7.54	7.59	
Electrical Conductivity		µS/cm at 25 C	101	273	1230	1
Calcium	Dissolved	mg/L	15.6	52.6	206	0.1
Iron	Dissolved	mg/L	0.223	1.12	<0.005	0.005
Magnesium	Dissolved	mg/L	4.3	12.1	50.9	0.1
Manganese	Dissolved	mg/L	0.194	0.352	<0.001	0.001
Phosphorus	Dissolved	mg/L	0.03	0.04	0.02	0.01
Potassium	Dissolved	mg/L	0.7	2.0	3.1	0.1
Silicon	Dissolved	mg/L	5.58	6.23	5.58	0.05
Sodium	Dissolved	mg/L	2.2	3.2	15.5	0.1
Bicarbonate		mg/L	21	106	235	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	17	87	192	5
Bromide	Dissolved	mg/L	<0.2	<0.2	<0.2	0.02
Chloride	Dissolved	mg/L	1.0	<0.5	0.5	0.05
Fluoride	Dissolved	mg/L	<0.1	<0.1	<0.1	0.01
Nitrate - N	Dissolved	mg/L	<0.1	<0.1	0.65	0.01
Nitrite - N	Dissolved	mg/L	<0.1	<0.1	0.27	0.01
Nitrate and Nitrite - N	Dissolved	mg/L	<0.2	<0.2	0.92	0.01
Sulfate (SO4)	Dissolved	mg/L	31	68	589	0.5
Hardness	as CaCO3	mg/L	57	181	724	5
Total Dissolved Solids	Calculated	mg/L	80	210	999	1
Ionic Balance		%	120	120	94.6	90-110

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-13	874987-14	874987-15		
	Sample Date	Jun 03, 2012	Jun 05, 2012	Jun 03, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Seep Pond / MP09-05	Pony Creek / MP09-08	Seep Pond / Seepage Pond		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Inorganic Nonmetallic Parameters						
Sulfide	Total	mg/L	0.008	<0.005	<0.005	0.005
Organic Carbon	Dissolved Nonpurgeable	mg/L	31	4.8	7.5	0.5
Cyanide	Total	mg/L	3.0	0.002	0.067	0.002
Cyanide	Weak Acid Dissociable	mg/L	0.022	<0.004	0.008	0.004
Cyanate	Digested Sample	mg/L	<0.2	<0.2	<0.2	0.2
Thiocyanate		mg/L	11	<0.3	0.6	0.3
Orthophosphate-P	Dissolved	mg/L	0.031	0.054	0.011	0.002
Ammonia - N		mg/L	10.7	0.05	1.00	
Metals Dissolved						
Sulfur	Dissolved	mg/L	315	99.0	63.0	0.2
Aluminum	Dissolved	mg/L	0.028	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0005	<0.0002	0.0003	0.0002
Arsenic	Dissolved	mg/L	0.0183	0.0096	0.0027	0.0002
Barium	Dissolved	mg/L	0.068	0.081	0.052	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.080	0.008	0.028	0.004
Cadmium	Dissolved	mg/L	0.00006	<0.00001	0.00027	0.00001
Chromium	Dissolved	mg/L	0.0020	0.0004	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.0210	0.00065	0.00300	0.00002
Copper	Dissolved	mg/L	0.001	<0.001	0.004	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.007	<0.001	0.001
Molybdenum	Dissolved	mg/L	0.0003	0.0002	0.0003	0.0001
Nickel	Dissolved	mg/L	0.008	0.002	0.002	0.001
Selenium	Dissolved	mg/L	0.0009	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	0.010	0.012	<0.01	0.01
Strontium	Dissolved	mg/L	1.160	2.070	0.313	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0014	0.0062	0.0016	0.0004
Vanadium	Dissolved	mg/L	0.0031	0.0002	0.0001	0.0001
Zinc	Dissolved	mg/L	0.025	0.002	0.004	0.001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-13	874987-14	874987-15		
	Sample Date	Jun 03, 2012	Jun 05, 2012	Jun 03, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Seep Pond / MP09-05	Pony Creek / MP09-08	Seep Pond / Seepage Pond		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Dissolved - Continued						
Zirconium	Dissolved	mg/L	0.0011	<0.0001	<0.0001	0.0001
Metals Total						
Calcium	Total	mg/L	369	164	84.5	0.05
Iron	Total	mg/L	65.7	0.319	1.50	0.01
Magnesium	Total	mg/L	44.5	48.9	17.7	0.05
Manganese	Total	mg/L	13.1	1.41	1.99	0.005
Phosphorus	Total	mg/L	0.046	0.058	0.015	0.01
Potassium	Total	mg/L	8.5	1.3	2.1	0.1
Silicon	Total	mg/L	7.63	7.42	3.01	0.05
Sulfur	Total	mg/L	289	108	59.7	0.1
Sodium	Total	mg/L	99.1	8.78	12.6	0.02
Titanium	Total	mg/L	<0.0010	<0.001	<0.001	0.001
Aluminum	Total	mg/L	0.040	0.013	0.031	0.005
Antimony	Total	mg/L	0.0006	<0.0002	0.0003	0.0002
Arsenic	Total	mg/L	0.0156	0.0121	0.0039	0.0002
Barium	Total	mg/L	0.069	0.086	0.051	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.079	0.006	0.025	0.004
Cadmium	Total	mg/L	0.00007	0.00002	0.00027	0.00001
Chromium	Total	mg/L	0.0014	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.0215	0.00069	0.00299	0.00002
Copper	Total	mg/L	0.002	<0.001	0.005	0.001
Lead	Total	mg/L	0.0003	0.0005	0.0003	0.0001
Lithium	Total	mg/L	<0.001	0.007	<0.001	0.001
Molybdenum	Total	mg/L	0.0003	0.0002	0.0003	0.0001
Nickel	Total	mg/L	0.008	0.002	0.002	0.001
Selenium	Total	mg/L	0.0009	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	1.20	2.17	0.298	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	0.00002	<0.00001	0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	0.0008	<0.0001	0.0001
Uranium	Total	mg/L	0.0014	0.0066	0.0015	0.0004
Vanadium	Total	mg/L	0.0032	0.0002	0.0004	0.0001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-13	874987-14	874987-15		
	Sample Date	Jun 03, 2012	Jun 05, 2012	Jun 03, 2012		
	Sample Time	NA	NA	NA		
	Sample Location					
	Sample Description	Seep Pond / MP09-05	Pony Creek / MP09-08	Seep Pond / Seepage Pond		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Total - Continued						
Zinc	Total	mg/L	0.023	0.002	0.005	0.001
Zirconium	Total	mg/L	0.0013	<0.0001	0.0002	0.0001
Routine Water						
pH	at 25 °C		7.19	8.09	7.68	
Electrical Conductivity		µS/cm at 25 C	1980	980	527	1
Calcium	Dissolved	mg/L	360	176	99.7	0.1
Iron	Dissolved	mg/L	65.0	0.008	0.150	0.005
Magnesium	Dissolved	mg/L	43.1	51.6	20.3	0.1
Manganese	Dissolved	mg/L	12.4	1.52	2.33	0.001
Phosphorus	Dissolved	mg/L	0.04	0.04	0.01	0.01
Potassium	Dissolved	mg/L	8.4	1.5	2.3	0.1
Silicon	Dissolved	mg/L	7.99	7.99	3.51	0.05
Sodium	Dissolved	mg/L	101	8.8	13.5	0.1
Bicarbonate		mg/L	505	332	135	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	415	273	111	5
Bromide	Dissolved	mg/L	<0.2	<0.2	<0.2	0.02
Chloride	Dissolved	mg/L	6.2	0.8	0.7	0.05
Fluoride	Dissolved	mg/L	<0.1	<0.1	<0.1	0.01
Nitrate - N	Dissolved	mg/L	0.23	<0.1	1.36	0.01
Nitrite - N	Dissolved	mg/L	0.34	<0.1	<0.1	0.01
Nitrate and Nitrite - N	Dissolved	mg/L	0.57	<0.2	1.36	0.01
Sulfate (SO4)	Dissolved	mg/L	894	345	181	0.5
Hardness	as CaCO3	mg/L	1080	652	333	5
Total Dissolved Solids	Calculated	mg/L	1680	769	400	1
Ionic Balance		%	99.4	107	123	90-110

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-16	874987-17	874987-18		
	Sample Date	Jun 03, 2012				
	Sample Time	NA				
	Sample Location					
	Sample Description	Seep Outlet / Seepage Discharge	Nansen / Dup 1	Nansen / Dup 2		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Inorganic Nonmetallic Parameters						
Sulfide	Total	mg/L	<0.005	<0.005	<0.005	0.005
Organic Carbon	Dissolved Nonpurgeable	mg/L	14.5	11.4	11.0	0.5
Cyanide	Total	mg/L	0.58	0.015	0.002	0.002
Cyanide	Weak Acid Dissociable	mg/L	0.018	0.008	<0.004	0.004
Cyanate	Digested Sample	mg/L	0.3	0.5	0.2	0.2
Thiocyanate		mg/L	3.7	<0.3	<0.3	0.3
Orthophosphate-P	Dissolved	mg/L	0.023	0.023	0.022	0.002
Ammonia - N		mg/L	4.41	0.83	<0.01	
Metals Dissolved						
Sulfur	Dissolved	mg/L	186	41.8	8.8	0.2
Aluminum	Dissolved	mg/L	0.005	0.057	0.071	0.005
Antimony	Dissolved	mg/L	0.0004	<0.0002	0.0017	0.0002
Arsenic	Dissolved	mg/L	0.0236	0.0133	0.0054	0.0002
Barium	Dissolved	mg/L	0.061	0.105	0.042	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.078	0.025	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00042	0.00003	0.00011	0.00001
Chromium	Dissolved	mg/L	0.0006	0.0014	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00835	0.00790	0.00097	0.00002
Copper	Dissolved	mg/L	0.003	0.001	0.003	0.001
Lead	Dissolved	mg/L	<0.0001	0.0001	0.0003	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Molybdenum	Dissolved	mg/L	0.0007	<0.0001	<0.0001	0.0001
Nickel	Dissolved	mg/L	0.004	0.009	<0.001	0.001
Selenium	Dissolved	mg/L	0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	0.014	0.011	<0.01	0.01
Strontium	Dissolved	mg/L	0.735	0.410	0.076	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0021	0.0006	<0.0004	0.0004
Vanadium	Dissolved	mg/L	0.0010	0.0020	0.0016	0.0001
Zinc	Dissolved	mg/L	0.006	0.004	0.022	0.001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-16	874987-17	874987-18		
	Sample Date	Jun 03, 2012				
	Sample Time	NA				
	Sample Location					
	Sample Description	Seep Outlet / Seepage Discharge	Nansen / Dup 1	Nansen / Dup 2		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Dissolved - Continued						
Zirconium	Dissolved	mg/L	0.0004	0.0006	0.0002	0.0001
Metals Total						
Calcium	Total	mg/L	219	90.1	12.5	0.05
Iron	Total	mg/L	12.8	21.0	0.215	0.01
Magnesium	Total	mg/L	54.2	13.6	4.36	0.05
Manganese	Total	mg/L	5.64	3.13	0.152	0.005
Phosphorus	Total	mg/L	0.042	0.055	0.025	0.01
Potassium	Total	mg/L	5.6	2.4	0.5	0.1
Silicon	Total	mg/L	5.92	7.09	4.41	0.05
Sulfur	Total	mg/L	184	36.5	9.2	0.1
Sodium	Total	mg/L	41.9	9.56	1.88	0.02
Titanium	Total	mg/L	<0.001	0.010	0.002	0.001
Aluminum	Total	mg/L	0.023	0.479	0.086	0.005
Antimony	Total	mg/L	0.0005	<0.0002	0.0018	0.0002
Arsenic	Total	mg/L	0.0392	0.0200	0.0033	0.0002
Barium	Total	mg/L	0.067	0.104	0.044	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.082	0.023	<0.005	0.004
Cadmium	Total	mg/L	0.00061	0.00005	0.00013	0.00001
Chromium	Total	mg/L	0.0005	0.0026	<0.0004	0.0004
Cobalt	Total	mg/L	0.00897	0.00640	0.0010	0.00002
Copper	Total	mg/L	0.006	0.007	0.003	0.001
Lead	Total	mg/L	0.0002	0.0012	0.0004	0.0001
Lithium	Total	mg/L	0.001	<0.001	<0.001	0.001
Molybdenum	Total	mg/L	0.0008	<0.0001	<0.0001	0.0001
Nickel	Total	mg/L	0.004	0.003	<0.001	0.001
Selenium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	0.00001	<0.00001	0.00001	0.00001
Strontium	Total	mg/L	0.792	0.358	0.080	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	0.00001	0.00001	0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0023	0.0005	<0.0004	0.0004
Vanadium	Total	mg/L	0.0018	0.0061	0.0018	0.0001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

	Reference Number	874987-16	874987-17	874987-18		
	Sample Date	Jun 03, 2012				
	Sample Time	NA				
	Sample Location					
	Sample Description	Seep Outlet / Seepage Discharge	Nansen / Dup 1	Nansen / Dup 2		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Total - Continued						
Zinc	Total	mg/L	0.007	0.004	0.023	0.001
Zirconium	Total	mg/L	0.0006	0.001	0.0002	0.0001
Routine Water						
pH	at 25 °C		7.60	7.18	7.00	
Electrical Conductivity		µS/cm at 25 C	1330	536	100	1
Calcium	Dissolved	mg/L	246	115	13.2	0.1
Iron	Dissolved	mg/L	9.06	13.4	0.134	0.005
Magnesium	Dissolved	mg/L	43.7	10.5	3.5	0.1
Manganese	Dissolved	mg/L	6.40	3.29	0.167	0.001
Phosphorus	Dissolved	mg/L	0.04	0.04	0.02	0.01
Potassium	Dissolved	mg/L	5.7	3.4	0.8	0.1
Silicon	Dissolved	mg/L	6.62	6.57	4.65	0.05
Sodium	Dissolved	mg/L	46.4	15.5	1.8	0.1
Bicarbonate		mg/L	261	192	17	5
Carbonate		mg/L	<6	<6	<6	6
Hydroxide		mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	214	158	14	5
Bromide	Dissolved	mg/L	<0.2	<0.2	<0.2	0.02
Chloride	Dissolved	mg/L	1.3	0.8	0.7	0.05
Fluoride	Dissolved	mg/L	<0.1	<0.1	<0.1	0.01
Nitrate - N	Dissolved	mg/L	2.58	6.13	<0.1	0.01
Nitrite - N	Dissolved	mg/L	<0.1	<0.1	<0.1	0.01
Nitrate and Nitrite - N	Dissolved	mg/L	2.58	6.13	<0.2	0.01
Sulfate (SO4)	Dissolved	mg/L	604	120	30	0.5
Hardness	as CaCO3	mg/L	793	329	47	5
Total Dissolved Solids	Calculated	mg/L	1100	404	71	1
Ionic Balance		%	109	131	110	90-110

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Reference Number 874987-19
 Sample Date
 Sample Time
 Sample Location
 Sample Description Nansen / SP1
 Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Sulfide	Total	mg/L	<0.005		0.005
Organic Carbon	Dissolved Nonpurgeable	mg/L	3.0		0.5
Cyanide	Total	mg/L	<0.002		0.002
Cyanide	Weak Acid Dissociable	mg/L	<0.004		0.004
Cyanate	Digested Sample	mg/L	<0.2		0.2
Thiocyanate		mg/L	<0.3		0.3
Orthophosphate-P	Dissolved	mg/L	0.045		0.002
Ammonia - N		mg/L	0.05		
Metals Dissolved					
Sulfur	Dissolved	mg/L	384		0.2
Aluminum	Dissolved	mg/L	<0.005		0.005
Antimony	Dissolved	mg/L	<0.0002		0.0002
Arsenic	Dissolved	mg/L	0.0547		0.0002
Barium	Dissolved	mg/L	0.007		0.001
Beryllium	Dissolved	mg/L	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001		0.001
Boron	Dissolved	mg/L	0.019		0.004
Cadmium	Dissolved	mg/L	0.00004		0.00001
Chromium	Dissolved	mg/L	0.0005		0.0004
Cobalt	Dissolved	mg/L	0.00041		0.00002
Copper	Dissolved	mg/L	<0.001		0.001
Lead	Dissolved	mg/L	<0.0001		0.0001
Lithium	Dissolved	mg/L	0.021		0.001
Molybdenum	Dissolved	mg/L	<0.0001		0.0001
Nickel	Dissolved	mg/L	0.004		0.001
Selenium	Dissolved	mg/L	0.0013		0.0006
Silver	Dissolved	mg/L	<0.00001		0.00001
Titanium	Dissolved	mg/L	0.025		0.01
Strontium	Dissolved	mg/L	0.942		0.001
Tellurium	Dissolved	mg/L	<0.0001		0.0001
Thallium	Dissolved	mg/L	0.00023		0.00001
Thorium	Dissolved	mg/L	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001		0.0001
Uranium	Dissolved	mg/L	0.0056		0.0004
Vanadium	Dissolved	mg/L	0.0002		0.0001
Zinc	Dissolved	mg/L	0.003		0.001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Reference Number 874987-19
 Sample Date
 Sample Time
 Sample Location
 Sample Description Nansen / SP1
 Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Metals Dissolved - Continued					
Zirconium	Dissolved mg/L	<0.0001			0.0001
Routine Water					
pH	at 25 °C	7.74			
Electrical Conductivity	µS/cm at 25 C	2140			1
Calcium	Dissolved mg/L	291			0.1
Iron	Dissolved mg/L	<0.005			0.005
Magnesium	Dissolved mg/L	200			0.1
Manganese	Dissolved mg/L	0.548			0.001
Phosphorus	Dissolved mg/L	0.07			0.01
Potassium	Dissolved mg/L	6.8			0.1
Silicon	Dissolved mg/L	4.91			0.05
Sodium	Dissolved mg/L	10.1			0.1
Bicarbonate	mg/L	473			5
Carbonate	mg/L	<6			6
Hydroxide	mg/L	<5			5
T-Alkalinity	as CaCO3 mg/L	388			5
Bromide	Dissolved mg/L	<0.2			0.02
Chloride	Dissolved mg/L	0.8			0.05
Fluoride	Dissolved mg/L	<0.1			0.01
Nitrate - N	Dissolved mg/L	0.37			0.01
Nitrite - N	Dissolved mg/L	0.54			0.01
Nitrate and Nitrite - N	Dissolved mg/L	0.90			0.01
Sulfate (SO4)	Dissolved mg/L	1080			0.5
Hardness	as CaCO3 mg/L	1550			5
Total Dissolved Solids	Calculated mg/L	1840			1
Ionic Balance	%	104			90-110

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Analyte	Matrix	Reference Number	874987-19	874987-20	874987-21	Nominal Detection Limit
		Sample Date				
		Sample Time				
		Sample Location	Nansen / SP1	Nansen / Field Blank	Nansen / Travel Blank	
Units	Water	Water	Water	Results	Results	
Metals Total						
Calcium	Total	mg/L	309	<0.05	<0.05	0.05
Iron	Total	mg/L	0.044	<0.01	<0.01	0.01
Magnesium	Total	mg/L	192	<0.05	<0.05	0.05
Manganese	Total	mg/L	0.512	<0.005	<0.005	0.005
Phosphorus	Total	mg/L	0.118	<0.010	<0.01	0.01
Potassium	Total	mg/L	6.2	<0.1	<0.1	0.1
Silicon	Total	mg/L	4.48	<0.05	<0.05	0.05
Sulfur	Total	mg/L	362	<0.1	<0.1	0.1
Sodium	Total	mg/L	9.52	<0.02	<0.02	0.02
Titanium	Total	mg/L	<0.0010	<0.001	<0.001	0.001
Aluminum	Total	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	0.0531	<0.0002	<0.0002	0.0002
Barium	Total	mg/L	0.007	<0.001	<0.001	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.021	<0.005	<0.005	0.004
Cadmium	Total	mg/L	0.00006	<0.00001	<0.00001	0.00001
Chromium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Cobalt	Total	mg/L	0.00041	<0.00002	<0.00002	0.00002
Copper	Total	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Total	mg/L	<0.0001	0.0002	<0.0001	0.0001
Lithium	Total	mg/L	0.022	<0.001	<0.001	0.001
Molybdenum	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Nickel	Total	mg/L	0.004	<0.001	<0.001	0.001
Selenium	Total	mg/L	0.0011	<0.0006	<0.0006	0.0006
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	1.00	<0.001	<0.001	0.001
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	0.00025	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Total	mg/L	0.0061	<0.0004	<0.0004	0.0004
Vanadium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Zinc	Total	mg/L	0.002	<0.001	<0.001	0.001
Zirconium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Reference Number 874987-22
 Sample Date
 Sample Time
 Sample Location
 Sample Description Nansen / Filter Blank
 Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Metals Total					
Calcium	Total	mg/L	<0.05		0.05
Iron	Total	mg/L	<0.01		0.01
Magnesium	Total	mg/L	<0.05		0.05
Manganese	Total	mg/L	<0.005		0.005
Phosphorus	Total	mg/L	<0.010		0.01
Potassium	Total	mg/L	<0.1		0.1
Silicon	Total	mg/L	<0.05		0.05
Sulfur	Total	mg/L	<0.1		0.1
Sodium	Total	mg/L	0.07		0.02
Titanium	Total	mg/L	<0.001		0.001
Aluminum	Total	mg/L	<0.005		0.005
Antimony	Total	mg/L	<0.0002		0.0002
Arsenic	Total	mg/L	<0.0002		0.0002
Barium	Total	mg/L	<0.001		0.001
Beryllium	Total	mg/L	<0.00004		0.00004
Bismuth	Total	mg/L	<0.001		0.001
Boron	Total	mg/L	<0.005		0.004
Cadmium	Total	mg/L	<0.00001		0.00001
Chromium	Total	mg/L	<0.0004		0.0004
Cobalt	Total	mg/L	<0.00002		0.00002
Copper	Total	mg/L	<0.001		0.001
Lead	Total	mg/L	<0.0001		0.0001
Lithium	Total	mg/L	<0.001		0.001
Molybdenum	Total	mg/L	<0.0001		0.0001
Nickel	Total	mg/L	<0.001		0.001
Selenium	Total	mg/L	<0.0006		0.0006
Silver	Total	mg/L	<0.00001		0.00001
Strontium	Total	mg/L	<0.001		0.001
Tellurium	Total	mg/L	<0.0001		0.0001
Thallium	Total	mg/L	<0.00001		0.00001
Thorium	Total	mg/L	<0.0004		0.0004
Tin	Total	mg/L	0.0006		0.0001
Uranium	Total	mg/L	<0.0004		0.0004
Vanadium	Total	mg/L	<0.0001		0.0001
Zinc	Total	mg/L	0.002		0.001
Zirconium	Total	mg/L	<0.0001		0.0001

Analytical Report

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Approved by:



Carol Nam, Dipl. T.
Quality Officer

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Cyanide	mg/L	0	-0.002	0.002	yes
Date Acquired: June 14, 2012					
Orthophosphate-P	mg/L	0	-0.002	0.002	yes
Ammonium - N	ug/L	-77.572	-110.00	10.00	yes
Date Acquired: June 12, 2012					
Sulfide	mg/L	0	-0.005	0.005	yes
Organic Carbon	mg/L	0.2469	-0.5	0.5	yes
Cyanide	mg/L	0	-0.002	0.002	yes
Cyanate	mg/L	0.006	0.0	0.0	yes
Thiocyanate	mg/L	0.052	-0.3	0.3	yes
Date Acquired: June 13, 2012					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Orthophosphate-P	mg/L	105.12	90	110	yes
Ammonium - N	ug/L	101.17	85	115	yes
Date Acquired: June 12, 2012					
Orthophosphate-P	mg/L	106.00	90	110	yes
Ammonium - N	ug/L	100.47	70	130	yes
Date Acquired: June 12, 2012					

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	0.23	0.24	0.07	0.42	yes
Date Acquired: June 12, 2012						
Orthophosphate-P	mg/L	1.17	1.208	1.160	1.256	yes
Date Acquired: June 11, 2012						

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Sulfide	mg/L	0.014	0.016	10	0.005	yes
Organic Carbon	mg/L	16.1	15.7	10	1.0	yes
Cyanide	mg/L	<0.004	<0.004	10	0.002	yes
Cyanate	mg/L	<0.2	<0.2	10	0.2	yes
Thiocyanate	mg/L	31	30	10	0.1	yes
Date Acquired: June 13, 2012						
Orthophosphate-P	mg/L	0.06	0.06	20	0.050	yes
Ammonia - N	mg/L	136	140	20	0.50	yes
Date Acquired: June 12, 2012						

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Cyanate	mg/L	<0.2	-0.2	0.4	yes
Date Acquired: June 14, 2012					
Sulfide	mg/L	0.075	0.067	0.084	yes
Organic Carbon	mg/L	124	109.6	133.6	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Inorganic Nonmetallic Parameters -

Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Cyanide	mg/L	0.075	0.067	0.087	yes
Thiocyanate	mg/L	5.1	4.5	5.4	yes
Date Acquired: June 13, 2012					
Sulfide	mg/L	0.027	0.021	0.031	yes
Organic Carbon	mg/L	15.1	12.8	17.2	yes
Cyanide	mg/L	0.015	0.014	0.017	yes
Thiocyanate	mg/L	1	0.8	1.2	yes
Date Acquired: June 13, 2012					
Organic Carbon	mg/L	3.1	2.4	4.0	yes
Date Acquired: June 13, 2012					

Metals Dissolved

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Aluminum	mg/L	0.280	0.300	0.256	0.344	yes
Antimony	mg/L	0.0697	0.0750	0.0558	0.0942	yes
Arsenic	mg/L	0.0651	0.0649	0.0529	0.0769	yes
Barium	mg/L	0.191	0.200	0.182	0.218	yes
Beryllium	mg/L	0.0752	0.07520	0.06560	0.08480	yes
Boron	mg/L	0.10	0.087	0.070	0.104	yes
Cadmium	mg/L	0.05600	0.05800	0.04960	0.06640	yes
Chromium	mg/L	0.0632	0.0675	0.0558	0.0792	yes
Cobalt	mg/L	0.0755	0.07980	0.06990	0.08970	yes
Copper	mg/L	0.056	0.057	0.052	0.061	yes
Lead	mg/L	0.162	0.1527	0.1305	0.1749	yes
Molybdenum	mg/L	0.0544	0.05990	0.04970	0.07010	yes
Nickel	mg/L	0.206	0.220	0.198	0.243	yes
Selenium	mg/L	0.1080	0.1099	0.0856	0.1342	yes
Silver	mg/L	0.01420	0.01499	0.01319	0.01679	yes
Strontium	mg/L	0.049	0.050	0.043	0.058	yes
Thallium	mg/L	0.06860	0.06508	0.05278	0.07738	yes
Vanadium	mg/L	0.7360	0.75000	0.66390	0.83610	yes
Zinc	mg/L	0.122	0.130	0.115	0.145	yes
Date Acquired: June 11, 2012						

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Sulfur	mg/L	99.0	95.0	30	3.0	yes
Titanium	mg/L	<0.010	<0.010	30	0.012	yes
Date Acquired: June 11, 2012						

Metals Total

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Metals Total

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	0.0057	-0.08	0.10	yes
Iron	mg/L	-0.0051	-0.030	0.030	yes
Magnesium	mg/L	-0.0005	-0.06	0.06	yes
Manganese	mg/L	-0.0023	-0.0098	0.0022	yes
Phosphorus	mg/L	-0.0072	-0.033	0.027	yes
Potassium	mg/L	-0.0016	-0.30	0.30	yes
Silicon	mg/L	-0.0035	-2.55	3.15	yes
Sodium	mg/L	0	-0.23	0.19	yes
Date Acquired: June 11, 2012					
Calcium	mg/L	-0.01	-0.13	0.17	yes
Iron	mg/L	-0.0049	-0.029	0.031	yes
Magnesium	mg/L	-0.0326	-0.09	0.09	yes
Manganese	mg/L	-0.0006	-0.0098	0.0022	yes
Phosphorus	mg/L	-0.0143	-0.033	0.027	yes
Potassium	mg/L	0.0026	-3.83	4.09	yes
Silicon	mg/L	0.0016	-2.40	3.00	yes
Sodium	mg/L	0.0129	-0.23	0.19	yes
Date Acquired: June 11, 2012					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	100.10	90	110	yes
Iron	mg/L	114.20	70	130	yes
Magnesium	mg/L	99.29	90	110	yes
Manganese	mg/L	100.20	90	110	yes
Phosphorus	mg/L	96.54	90	110	yes
Potassium	mg/L	96.08	85	115	yes
Silicon	mg/L	96.78	80	120	yes
Sodium	mg/L	96.57	90	110	yes
Date Acquired: June 11, 2012					

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	8.83	9.07	7.85	10.30	yes
Iron	mg/L	1.22	1.276	1.115	1.437	yes
Magnesium	mg/L	6.04	6.01	5.18	6.85	yes
Manganese	mg/L	1.52	1.4970	1.3608	1.6332	yes
Potassium	mg/L	4	3.40	2.57	4.22	yes
Sodium	mg/L	6.14	5.40	4.68	6.12	yes
Aluminum	mg/L	1.18	1.200	1.024	1.375	yes
Antimony	mg/L	0.300	0.3000	0.2232	0.3768	yes
Arsenic	mg/L	0.265	0.2590	0.2110	0.3070	yes
Barium	mg/L	0.810	0.798	0.726	0.870	yes
Beryllium	mg/L	0.324	0.30000	0.26220	0.33780	yes
Boron	mg/L	0.36	0.349	0.280	0.418	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Metals Total - Continued

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Cadmium	mg/L	0.234	0.23200	0.19840	0.26560	yes
Chromium	mg/L	0.281	0.2700	0.2235	0.3165	yes
Cobalt	mg/L	0.317	0.31900	0.27940	0.35860	yes
Copper	mg/L	0.23	0.228	0.209	0.247	yes
Lead	mg/L	0.619	0.6100	0.5209	0.6991	yes
Molybdenum	mg/L	0.242	0.24000	0.19950	0.28050	yes
Nickel	mg/L	0.868	0.880	0.790	0.970	yes
Selenium	mg/L	0.432	0.4400	0.3425	0.5375	yes
Silver	mg/L	0.0624	0.06000	0.05250	0.06750	yes
Strontium	mg/L	0.21	0.200	0.170	0.230	yes
Thallium	mg/L	0.267	0.26000	0.21080	0.30920	yes
Vanadium	mg/L	3.12	3.00000	2.65590	3.34410	yes
Zinc	mg/L	0.515	0.520	0.460	0.580	yes

Date Acquired: June 11, 2012

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mg/L	326	316	20	0.05	yes
Iron	mg/L	48.2	47.8	20	0.050	yes
Magnesium	mg/L	66.6	67.6	20	0.05	yes
Manganese	mg/L	5.82	5.78	20	0.0050	yes
Phosphorus	mg/L	0.226	0.230	20	0.050	yes
Potassium	mg/L	9.3	9.4	20	0.10	yes
Silicon	mg/L	7.31	7.20	20	0.10	yes
Sulfur	mg/L	240	232	20	0.0	yes
Sodium	mg/L	84.4	84.2	20	0.10	yes

Date Acquired: June 11, 2012

Routine Water

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	-0.0031	-0.05	0.05	yes
Iron	mg/L	0.0101	-0.031	0.029	yes
Magnesium	mg/L	-0.0329	-0.05	0.07	yes
Manganese	mg/L	0.0004	-0.007	0.001	yes
Phosphorus	mg/L	0.0124	-0.04	0.04	yes
Potassium	mg/L	0.0187	-0.4	0.4	yes
Silicon	mg/L	0.0043	-0.20	0.25	yes
Sodium	mg/L	-0.0092	-0.2	0.2	yes

Date Acquired: June 11, 2012

Calcium	mg/L	0.022	-0.13	0.16	yes
Iron	mg/L	0.0058	-0.024	0.025	yes
Magnesium	mg/L	-0.0203	-0.07	0.08	yes
Manganese	mg/L	-0.0028	-0.009	0.002	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Routine Water - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Phosphorus	mg/L	0.0087	-0.14	0.16	yes
Potassium	mg/L	0.0333	-0.8	0.8	yes
Silicon	mg/L	0.0055	-1.76	2.02	yes
Sodium	mg/L	-0.008	-0.3	0.4	yes
Date Acquired: June 11, 2012					
Bromide	mg/L	0	-0.10	0.10	yes
Chloride	mg/L	0	-0.20	0.20	yes
Fluoride	mg/L	0	-0.10	0.10	yes
Nitrate - N	mg/L	0	-0.03	0.03	yes
Nitrite - N	mg/L	0	-0.10	0.10	yes
Sulfate (SO4)	mg/L	0	-1.0	1.0	yes
Date Acquired: June 11, 2012					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	107.11	91	109	yes
Iron	mg/L	128.10	0	0	yes
Magnesium	mg/L	103.00	91	109	yes
Manganese	mg/L	107.60	90	110	yes
Phosphorus	mg/L	107.66	90	110	yes
Potassium	mg/L	104.12	85	115	yes
Silicon	mg/L	104.24	80	120	yes
Sodium	mg/L	102.49	90	110	yes
Date Acquired: June 11, 2012					
Bromide	mg/L	108.66	90	110	yes
Chloride	mg/L	102.27	85	115	yes
Fluoride	mg/L	104.19	85	115	yes
Nitrate - N	mg/L	96.93	85	115	yes
Nitrite - N	mg/L	145.35	90	110	yes
Sulfate (SO4)	mg/L	101.28	85	115	yes
Date Acquired: June 11, 2012					
Bromide	mg/L	100.49	90	110	yes
Chloride	mg/L	104.32	85	105	yes
Fluoride	mg/L	104.63	89	109	yes
Nitrate - N	mg/L	100.92	88	108	yes
Nitrite - N	mg/L	116.37	99	119	yes
Sulfate (SO4)	mg/L	102.73	90	110	yes
Date Acquired: June 11, 2012					

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	1.5	1.51	1.31	1.72	yes
Iron	mg/L	0.320	0.319	0.279	0.359	yes
Magnesium	mg/L	1.1	1.00	0.86	1.14	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Routine Water - Continued

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Manganese	mg/L	0.391	0.374	0.340	0.408	yes
Potassium	mg/L	0.6	0.6	0.5	0.7	yes
Sodium	mg/L	0.8	0.9	0.8	1.0	yes
Date Acquired: June 11, 2012						
Nitrite - N	mg/L	1.64	1.51	1.34	1.68	yes
Date Acquired: June 11, 2012						

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mg/L	246	250	30	1.00	yes
Iron	mg/L	0.028	0.026	30	0.060	yes
Magnesium	mg/L	22.5	22.6	30	1.00	yes
Manganese	mg/L	0.635	0.641	30	0.015	yes
Phosphorus	mg/L	1.18	1.20	30	0.10	yes
Potassium	mg/L	18.3	18.0	30	1.0	yes
Silicon	mg/L	7.02	7.12	30	0.15	yes
Sodium	mg/L	20.0	19.9	30	1.0	yes
Date Acquired: June 11, 2012						
Hardness	mg CaCO3/L	1090	1070	20	1.000	yes
Date Acquired: June 11, 2012						
pH		7.79	7.84	2		yes
Electrical Conductivity	dS/m at 25 C	0.456	0.451	10	0.005	yes
Bicarbonate	mg/L	248	238	10	10	yes
Carbonate	mg/L	<6	<6	10	10	yes
Hydroxide	mg/L	<5	<5	10	10	yes
P-Alkalinity	mg/L	<5	<5	10	5	yes
T-Alkalinity	mg/L	204	196	10	5	yes
Bromide	mg/L	<0.2	<0.2	15	0.50	yes
Chloride	mg/L	2.33	2.34	15	0.25	yes
Fluoride	mg/L	0.16	0.16	15	0.50	yes
Nitrate - N	mg/L	4.92	4.90	15	0.05	yes
Nitrite - N	mg/L	<0.1	<0.1	15	0.50	yes
Nitrate and Nitrite - N	mg/L	4.92	4.90	15	0.50	yes
Sulfate (SO4)	mg/L	51.9	52.0	15	0.5	yes
Date Acquired: June 11, 2012						

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Bromide	mg/L	1.11	1.11	6	0.01	yes
Chloride	mg/L	1.33	1.35	6	0.01	yes
Fluoride	mg/L	0.20	0.22	6	0.01	yes
Nitrate - N	mg/L	0.29	0.29	12	0.05	yes
Nitrite - N	mg/L	0.44	0.43	6	0.01	yes
Sulfate (SO4)	mg/L	4.5	4.4	6	0.0	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
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Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Routine Water - Continued

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Date Acquired: June 11, 2012						

Trace Metals Dissolved

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Aluminum	µg/L	-0.732	-10	10	yes
Antimony	µg/L	-0.029	-0.4	0.2	yes
Arsenic	µg/L	0	-0.5	0.5	yes
Barium	µg/L	-0.016	-0	0	yes
Beryllium	µg/L	-0.001	-0.10	0.10	yes
Bismuth	µg/L	-0.273	-1.0	1.0	yes
Boron	µg/L	0	-6	5	yes
Cadmium	µg/L	-0.004	-0.03	0.03	yes
Chromium	µg/L	-0.028	-0.1	0.2	yes
Cobalt	µg/L	0.059	-0.07	0.07	yes
Copper	µg/L	-0.023	-1	1	yes
Lead	µg/L	-0.003	-0.1	0.1	yes
Lithium	µg/L	-0.032	-1	1	yes
Molybdenum	µg/L	-0.187	-0.31	0.29	yes
Nickel	µg/L	-0.235	-1	1	yes
Selenium	µg/L	0.07	-1.7	1.3	yes
Silver	µg/L	0	-0.05	0.05	yes
Strontium	µg/L	-0.074	-0	0	yes
Tellurium	µg/L	-0.239	-0.7	0.7	yes
Thallium	µg/L	0	-0.03	0.03	yes
Thorium	µg/L	0.017	-1.5	1.5	yes
Tin	µg/L	0	-3.0	3.0	yes
Titanium	µg/L	0.017	-0.2	0.2	yes
Uranium	µg/L	-0.014	-0.03	0.03	yes
Vanadium	µg/L	-0.018	-0.35	0.35	yes
Zinc	µg/L	-0.169	-2	4	yes
Zirconium	µg/L	0	-0.1	0.1	yes

Date Acquired: June 11, 2012

Aluminum	µg/L	0	-6	6	yes
Antimony	µg/L	-0.021	-0.4	0.3	yes
Arsenic	µg/L	0	-0.4	0.3	yes
Barium	µg/L	-0.009	-0	1	yes
Beryllium	µg/L	0.012	-0.10	0.10	yes
Bismuth	µg/L	-0.503	0.0	0.0	yes
Boron	µg/L	0	-18	19	yes
Cadmium	µg/L	-0.002	-0.03	0.03	yes
Chromium	µg/L	-0.007	-0.1	0.2	yes
Cobalt	µg/L	0.019	-0.30	0.30	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Trace Metals Dissolved - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Copper	µg/L	0	-1	1	yes
Lead	µg/L	0.027	-0.3	0.4	yes
Lithium	µg/L	0.239	-0	0	yes
Molybdenum	µg/L	-0.25	-0.95	0.85	yes
Nickel	µg/L	-0.139	-1	1	yes
Selenium	µg/L	0.121	-1.7	1.7	yes
Silver	µg/L	-0.014	-0.67	0.47	yes
Strontium	µg/L	0.23	-2	4	yes
Tellurium	µg/L	-0.357	-0.7	0.7	yes
Thallium	µg/L	0	-0.06	0.06	yes
Thorium	µg/L	-0.132	-0.7	0.5	yes
Tin	µg/L	-0.003	-3.8	4.0	yes
Titanium	µg/L	0.032	-0.3	0.2	yes
Uranium	µg/L	-0.004	-0.04	0.02	yes
Vanadium	µg/L	0	-0.30	0.30	yes
Zinc	µg/L	0.079	-11	19	yes
Zirconium	µg/L	-0.017	-0.0	0.0	yes
Date Acquired: June 11, 2012					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Aluminum	µg/L	102.79	70	130	yes
Antimony	µg/L	86.32	85	115	yes
Arsenic	µg/L	105.24	90	110	yes
Barium	µg/L	95.70	90	110	yes
Beryllium	µg/L	102.20	90	110	yes
Bismuth	µg/L	91.80	90	110	yes
Boron	µg/L	100.18	70	130	yes
Cadmium	µg/L	103.26	90	110	yes
Chromium	µg/L	98.98	90	110	yes
Cobalt	µg/L	99.86	90	110	yes
Copper	µg/L	95.32	90	110	yes
Lead	µg/L	102.20	90	110	yes
Lithium	µg/L	107.70	90	110	yes
Molybdenum	µg/L	93.40	90	110	yes
Nickel	µg/L	92.56	90	110	yes
Selenium	µg/L	98.76	90	110	yes
Silver	µg/L	0.13	0	0	yes
Strontium	µg/L	98.88	90	110	yes
Thallium	µg/L	102.87	90	110	yes
Tin	µg/L	98.28	90	110	yes
Titanium	µg/L	97.40	90	110	yes
Uranium	µg/L	105.90	85	115	yes
Vanadium	µg/L	93.75	90	110	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Trace Metals Dissolved - Continued

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Zinc	µg/L	97.26	90	110	yes
Zirconium	µg/L	102.40	90	110	yes
Date Acquired: June 11, 2012					

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	µg/L	<5	<5	20	20	yes
Antimony	µg/L	0.5	0.5	20	1.0	yes
Arsenic	µg/L	3.8	4.0	20	1.0	yes
Barium	µg/L	21	21	20	5	yes
Beryllium	µg/L	<0.04	<0.04	20	1.00	yes
Boron	µg/L	479	422	20	5	yes
Cadmium	µg/L	0.26	0.28	20	0.50	yes
Chromium	µg/L	0.6	0.5	20	5.0	yes
Cobalt	µg/L	1.51	1.48	20	0.50	yes
Copper	µg/L	7	7	20	5	yes
Lead	µg/L	<0.1	<0.1	20	0.5	yes
Lithium	µg/L	<1	1	20	5	yes
Molybdenum	µg/L	9.0	8.8	20	0.50	yes
Nickel	µg/L	7	6	20	5	yes
Selenium	µg/L	2.0	1.9	20	0.5	yes
Silver	µg/L	<0.01	<0.01	20	0.50	yes
Strontium	µg/L	524	518	20	0	yes
Tellurium	µg/L	<0.1	<0.1	20	0.5	yes
Thallium	µg/L	0.06	0.06	20	0.10	yes
Thorium	µg/L	<0.4	<0.4	10	0.1	yes
Tin	µg/L	<0.1	<0.1	20	0.5	yes
Titanium	µg/L	4.6	4.8	20	0.5	yes
Uranium	µg/L	1.7	1.8	20	0.10	yes
Vanadium	µg/L	13.3	12.7	20	0.50	yes
Zinc	µg/L	23	22	20	5	yes
Zirconium	µg/L	<0.1	<0.1	20	0.5	yes
Date Acquired: June 11, 2012						

Trace Metals Total

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Aluminum	µg/L	-1.102	-7	7	yes
Antimony	µg/L	-0.034	-0.4	0.2	yes
Arsenic	µg/L	0.05	0.0	0.0	yes
Barium	µg/L	-0.029	-0.1	0.2	yes
Beryllium	µg/L	-0.005	-0.10	0.10	yes
Bismuth	µg/L	-0.277	-3.0	3.0	yes
Boron	µg/L	0.501	-6	5	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Trace Metals Total - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Cadmium	µg/L	-0.005	0.00	0.00	yes
Chromium	µg/L	-0.044	0.0	0.0	yes
Cobalt	µg/L	0.007	-0.06600	0.06600	yes
Copper	µg/L	-0.004	-0.830	0.790	yes
Lead	µg/L	-0.002	0.000	0.000	yes
Lithium	µg/L	-0.013	-0	0	yes
Molybdenum	µg/L	-0.181	-0.31	0.29	yes
Nickel	µg/L	-0.228	-1	1	yes
Selenium	µg/L	0.006	-1.7	1.3	yes
Silver	µg/L	0	-0.07	0.05	yes
Strontium	µg/L	-0.063	-0.3	0.3	yes
Tellurium	µg/L	0.125	-0.7	0.7	yes
Thallium	µg/L	0.002	-0.03	0.03	yes
Thorium	µg/L	0.011	-1.50	1.50	yes
Tin	µg/L	0.003	-3.0	3.0	yes
Titanium	µg/L	-0.014	-0.4	0.4	yes
Uranium	µg/L	0.005	-0.0	0.0	yes
Vanadium	µg/L	-0.016	-0.30	0.30	yes
Zinc	µg/L	0.091	-2	4	yes
Zirconium	µg/L	-0.003	-0.1	0.1	yes
Date Acquired: June 11, 2012					
Aluminum	µg/L	0	-4	8	yes
Antimony	µg/L	-0.044	-0.6	0.4	yes
Arsenic	µg/L	0	-0.6	0.6	yes
Barium	µg/L	0	-0.1	0.1	yes
Beryllium	µg/L	-0.008	-0.09	0.09	yes
Bismuth	µg/L	-0.5	0.0	0.0	yes
Boron	µg/L	0	-12	11	yes
Cadmium	µg/L	-0.006	-0.08	0.08	yes
Chromium	µg/L	0	-0.1	0.2	yes
Cobalt	µg/L	0.013	-0.07500	0.08700	yes
Copper	µg/L	0.001	-1.930	1.430	yes
Lead	µg/L	0.004	-0.150	0.210	yes
Lithium	µg/L	-0.026	-0	0	yes
Molybdenum	µg/L	-0.273	-1.67	1.81	yes
Nickel	µg/L	-0.163	-1	1	yes
Selenium	µg/L	-0.025	-2.5	1.5	yes
Silver	µg/L	-0.016	-0.13	0.07	yes
Strontium	µg/L	-0.022	-0.2	0.2	yes
Tellurium	µg/L	-0.006	-0.2	0.2	yes
Thallium	µg/L	0	-0.32	0.34	yes
Thorium	µg/L	-0.133	-1.75	0.95	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
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Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Trace Metals Total - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Tin	µg/L	-0.164	-0.5	0.4	yes
Titanium	µg/L	0	-0.2	0.3	yes
Uranium	µg/L	0	-0.5	0.5	yes
Vanadium	µg/L	0	-0.30	0.30	yes
Zinc	µg/L	0	-4	6	yes
Zirconium	µg/L	-0.016	-0.1	0.1	yes
Date Acquired: June 11, 2012					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Aluminum	µg/L	103.93	70	130	yes
Antimony	µg/L	90.02	85	115	yes
Arsenic	µg/L	90.70	90	110	yes
Barium	µg/L	95.22	90	110	yes
Beryllium	µg/L	107.68	90	110	yes
Bismuth	µg/L	91.52	90	110	yes
Boron	µg/L	104.89	70	130	yes
Cadmium	µg/L	105.52	90	110	yes
Chromium	µg/L	100.62	90	110	yes
Cobalt	µg/L	101.52	90	110	yes
Copper	µg/L	95.60	90	110	yes
Lead	µg/L	103.36	90	110	yes
Lithium	µg/L	109.94	90	110	yes
Molybdenum	µg/L	93.36	90	110	yes
Nickel	µg/L	94.54	90	110	yes
Selenium	µg/L	98.80	90	110	yes
Silver	µg/L	0.14	0	0	yes
Strontium	µg/L	98.76	90	110	yes
Thallium	µg/L	103.44	90	110	yes
Tin	µg/L	101.36	85	115	yes
Titanium	µg/L	101.74	90	110	yes
Uranium	µg/L	107.57	85	115	yes
Vanadium	µg/L	96.76	90	110	yes
Zinc	µg/L	97.39	90	110	yes
Zirconium	µg/L	106.08	90	110	yes
Date Acquired: June 11, 2012					

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	µg/L	66	64	15	100	yes
Antimony	µg/L	0.6	1.0	15	2.0	yes
Arsenic	µg/L	105	107	15	2.0	yes
Barium	µg/L	147	146	15	10.0	yes
Beryllium	µg/L	<0.04	<0.04	15	0.40	yes
Boron	µg/L	72	78	15	40	yes

Quality Control

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Trace Metals Total - Continued

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Cadmium	µg/L	0.05	0.04	15	0.10	yes
Chromium	µg/L	2.9	3.0	15	6.0	yes
Cobalt	µg/L	8.85	8.88	15	0.20000	yes
Copper	µg/L	2	2	15	5.000	yes
Lead	µg/L	1.2	1.1	15	1.000	yes
Lithium	µg/L	<1	<1	15	10	yes
Molybdenum	µg/L	0.9	1.1	15	0.20	yes
Nickel	µg/L	4	5	15	10	yes
Selenium	µg/L	0.7	0.8	15	5.0	yes
Silver	µg/L	<0.01	<0.01	15	0.10	yes
Strontium	µg/L	1180	1160	15	10.0	yes
Tellurium	µg/L	<0.1	<0.1	20	0.5	yes
Thallium	µg/L	<0.01	<0.01	15	0.10	yes
Thorium	µg/L	0.4	0.7	15	1.00	yes
Tin	µg/L	0.4	0.2	15	1.0	yes
Titanium	µg/L	15.4	16.1	15	1.0	yes
Uranium	µg/L	1.0	1.1	15	1.0	yes
Vanadium	µg/L	12.5	12.5	15	0.40	yes
Zinc	µg/L	5	4	15	10	yes
Zirconium	µg/L	2.6	2.9	15	1.0	yes

Date Acquired: June 11, 2012

Methodology and Notes

Bill To: EBA Engineering Consultants	Project:	Lot ID: 874987
Report To: EBA Engineering Consultants	ID: W23101586	Control Number:
Calcite Business Centre	Name: Mount Nansen GW Sampling	Date Received: Jun 8, 2012
Unit 6, 151 Industrial Road	Location: Mount Nansen Mine. Yukon	Date Reported: Jun 21, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1743037
Y1A 2V3	P.O.:	
Attn: Tamra Reynolds	Acct code:	
Sampled By: Sarah Sternbergh		
Company: EBA		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water	APHA	* Alkalinity - Titration Method, 2320 B	13-Jun-12	Exova Surrey
Alk, pH, EC, Turb in water	APHA	* Conductivity, 2510 B	13-Jun-12	Exova Surrey
Alk, pH, EC, Turb in water	APHA	* pH - Electrometric Method, 4500-H+ B	13-Jun-12	Exova Surrey
Ammonia-N in Water	APHA	* Titrametric, 4500-NH3 C	12-Jun-12	Exova Surrey
Ammonia-N in Water	APHA	* Titrametric, 4500-NH3 C	13-Jun-12	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	11-Jun-12	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Single-Column Ion Chromatography with Electronic Suppression, 4110 C	11-Jun-12	Exova Surrey
Carbon Organic (Dissolved) in water (DOC)	APHA	High-Temperature Combustion Method, 5310 B	13-Jun-12	Exova Edmonton
Cyanate in water	APHA	* Cyanates, 4500-CN- L	14-Jun-12	Exova Edmonton
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	13-Jun-12	Exova Edmonton
Cyanide (Weak Acid Dissociable) in water	APHA	* Weak Acid Dissociable Cyanide, 4500-CN- I	13-Jun-12	Exova Edmonton
Metals SemiTrace (Dissolved) in water	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	11-Jun-12	Exova Surrey
Metals SemiTrace (Dissolved) in water	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	19-Jun-12	Exova Surrey
Metals SemiTrace (Total) in Water	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	11-Jun-12	Exova Surrey
Phosphorus - total reactive P (orthophosphate)	APHA	Ascorbic Acid Reduction Method, 4500-P E	11-Jun-12	Exova Surrey
Sulfide in water	APHA	* Gas Dialysis, Automated Methylene Blue Method, 4500-S2- E	14-Jun-12	Exova Edmonton
Thiocyanate in water	APHA	* Thiocyanate, 4500-CN- M	13-Jun-12	Exova Edmonton
Trace Metals (dissolved) in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	11-Jun-12	Exova Surrey
Trace Metals (dissolved) in Water	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	11-Jun-12	Exova Surrey
Trace Metals (Total) in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	11-Jun-12	Exova Surrey
Trace Metals (Total) in Water	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	11-Jun-12	Exova Surrey

* Reference Method Modified

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Methodology and Notes

Bill To:	EBA Engineering Consultants	Project:		Lot ID:	874987
Report To:	EBA Engineering Consultants	ID:	W23101586	Control Number:	
	Calcite Business Centre	Name:	Mount Nansen GW Sampling	Date Received:	Jun 8, 2012
	Unit 6, 151 Industrial Road	Location:	Mount Nansen Mine. Yukon	Date Reported:	Jun 21, 2012
	Whitehorse, YT, Canada	LSD:		Report Number:	1743037
	Y1A 2V3	P.O.:			
Attn:	Tamra Reynolds	Acct code:			
Sampled By:	Sarah Sternbergh				
Company:	EBA				

Comments:

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



LOT: Control Number

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis

Billing Address:		Copy of Report To:		Copy of invoice:	
Company: EBA Engineering Consulting Ltd.	QA/QC Report <input checked="" type="checkbox"/>	Company: EBA Engineering Consulting Ltd.	Mail invoice to this address for approval <input type="checkbox"/>		
Address: Unit 6, 151 Industrial Road Whitehorse, YT Y1A 2V3		Address: Unit 6, 151 Industrial Road Whitehorse, YT Y1A 2V3			
Attention: Tamra Reynolds	Report Result:	Attention: Sarah Sternbergh	Report Result:		
Phone: 867-668-2071 ext. 241	Fax <input type="checkbox"/>	Phone: 867-668-3068	Fax <input type="checkbox"/>		
Fax: 867-668-4349	Mail <input type="checkbox"/>	Fax: 867-668-4349	Mail <input type="checkbox"/>		
Cell: <input type="checkbox"/>	Courier <input type="checkbox"/>	Cell: <input type="checkbox"/>	Courier <input type="checkbox"/>		
e-mail: treynolds@eba.ca	e-mail <input checked="" type="checkbox"/>	e-mail: sssternbergh@eba.ca	e-mail <input checked="" type="checkbox"/>		
	Results Online <input checked="" type="checkbox"/>		Results Online <input checked="" type="checkbox"/>		

Information to be included on Report and Invoice

Project ID: W23101586
 Project Name: Mount Nansen GW Sampling
 Project Location: Mount Nansen Mine, Yukon
 Legal Location:
 PO#:
 Proj. Acct. Code:
 Agreement ID: **87038**

RUSH Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis

RUSH required on: All Analysis or As indicated

Date Required: _____
 Signature: _____
 Exova Authorization: _____

Sample Custody (Please Print)

Sampled by: *Sarah Sternbergh*
 Company: *EBA* Signature: *[Signature]*

I authorize Exova to proceed with the work work indicated on this form:

Date: *07/06/12* Initial: **SAVED**
 Received by: _____ Sample Date: **JUN 28 2012**
 Waybill #: _____ Date: _____
 Company: _____ Time: _____

Special Instructions / Comments

Please ensure detection limits sufficient for CCME Guidelines

NOTES: 3 Coolers
 Please refer to the required dection limits attached Bromide and Flouride required.

Please indicate which regulations you are required to meet: _____

FOR LAB USE ONLY

Condition of containers/coolers upon arrival at lab

Check here if Exova is required to report results directly to a regulatory body (Please include contact information)

Check here if you are testing **POTABLE WATER for HUMAN CONSUMPTION**

Number of Containers	CN1	CN3	Cyanate	Thiocyanate	SU	DOC	NV21	TW22	CBR & F	NH4	OP04	W10
----------------------	-----	-----	---------	-------------	----	-----	------	------	---------	-----	------	-----

	Sample Identification	Location	Depth			Date/Time Sampled	Matrix	Sampling Method	Number of Containers	Enter tests above (✓ relevant samples below)													
			IN	CM	B					CN1	CN3	Cyanate	Thiocyanate	SU	DOC	NV21	TW22	CBR & F	NH4	OP04	W10		
1	MW09-01	Tails				03-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	MW09-02	Tails				02-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	MW09-03	Tails				02-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	MW09-04	Tails				02-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	MW09-17	Mill				01-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	MW09-18	Mill				01-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	MW09-22	Tdam				04-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	MW09-23	Dam Crest				02-Jun-12	Water	Bladder	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	MW09-24	Seep Pond				06-Jun-12	Water	Bladder	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	MP09-01	Pony Creek				05-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	MP09-02	Pony Creek				06-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	MP09-04	Seep Pond				03-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	MP09-05	Seep Pond				03-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	MP09-08	Pony Creek				05-Jun-12	Water	Peristaltic	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	Seepage Pond	Seep Pond				03-Jun-12	Water	Grab	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Table 2: Analytical parameters and detection limits for the 2012 Mount Nansen seepage and groundwater sampling program.

Parameter	Detection Limit
Anions and Nutrients	
Acidity (as CaCO ₃)	5
Alkalinity, Total (as CaCO ₃)	5
Ammonia as N	0.5
Bromide (Br)	1
Chloride (Cl)	10
Fluoride (F)	0.4
Nitrate (as N)	0.1
Nitrite (as N)	0.02
Sulfate (SO ₄)	10
Sulfide	0.01
Cyanides	
Cyanide, Weak Acid Diss	0.005
Cyanide, Total	0.005
Cyanate (CNO)	1.8
Thiocyanate (SCN)	0.5
Organic / Inorganic Carbon	
Dissolved Organic Carbon	0.5

Parameter	Detection Limit
Total and Dissolved Metals	
Aluminum (Al)	0.005
Antimony (Sb)	0.0005
Arsenic (As)	0.0005
Barium (Ba)	0.00025
Beryllium (Be)	0.0025
Bismuth (Bi)	0.0025
Boron (B)	0.05
Cadmium (Cd)	0.000085
Calcium (Ca)	0.05
Chromium (Cr)	0.0025
Cobalt (Co)	0.0005
Copper (Cu)	0.0009
Iron (Fe)	0.03
Lead (Pb)	0.00025
Lithium (Li)	0.025
Magnesium (Mg)	0.1
Manganese (Mn)	0.00025
Molybdenum (Mo)	0.00025
Nickel (Ni)	0.0025
Phosphorus (P)	0.3
Potassium (K)	2
Selenium (Se)	0.0005
Silicon (Si)	0.05
Silver (Ag)	0.00005
Sodium (Na)	2
Strontium (Sr)	0.0005
Thallium (Tl)	0.0005
Tin (Sn)	0.0005
Titanium (Ti)	0.01
Uranium (U)	0.00005
Vanadium (V)	0.005
Zinc (Zn)	0.005

APPENDIX B

HYDRAULIC CONDUCTIVITY ANALYSIS

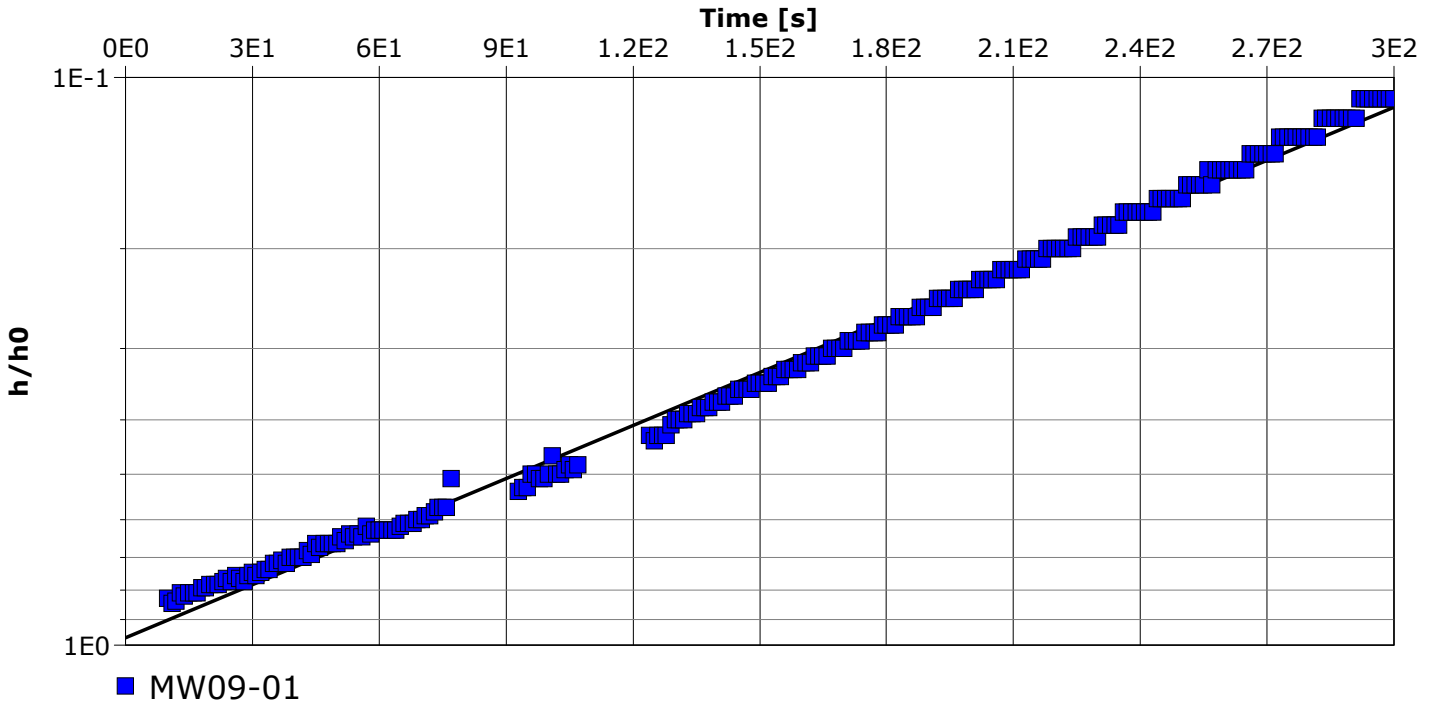
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-01 Bail Test	Test Well: MW09-01
Test Conducted by: SKS		Test Date: 6/2/2012
Analysis Performed by: SKS	MW09-01 Bail Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-01	6.14×10^{-6}

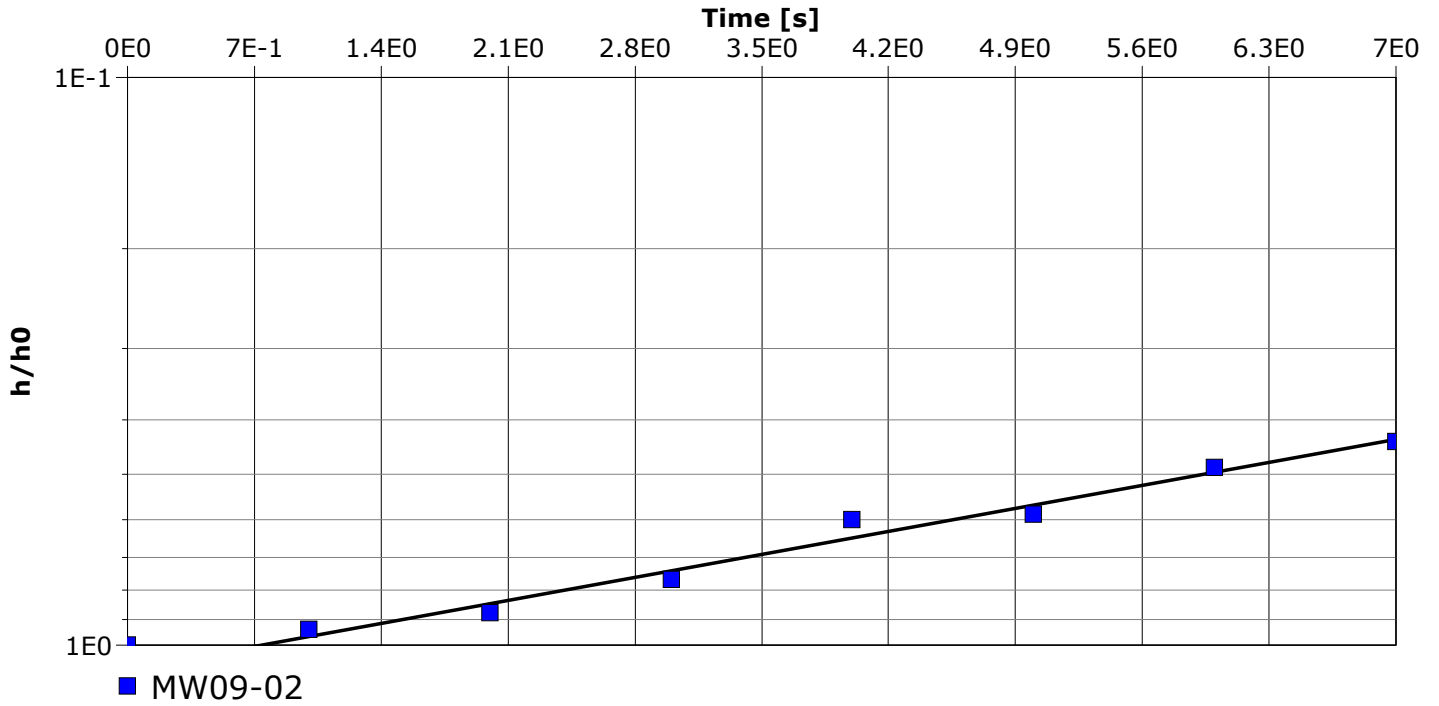
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-02 Bail Test	Test Well: MW09-02
Test Conducted by: SKS		Test Date: 6/2/2012
Analysis Performed by: SKS	MW09-02 Bail Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-02	3.40×10^{-5}

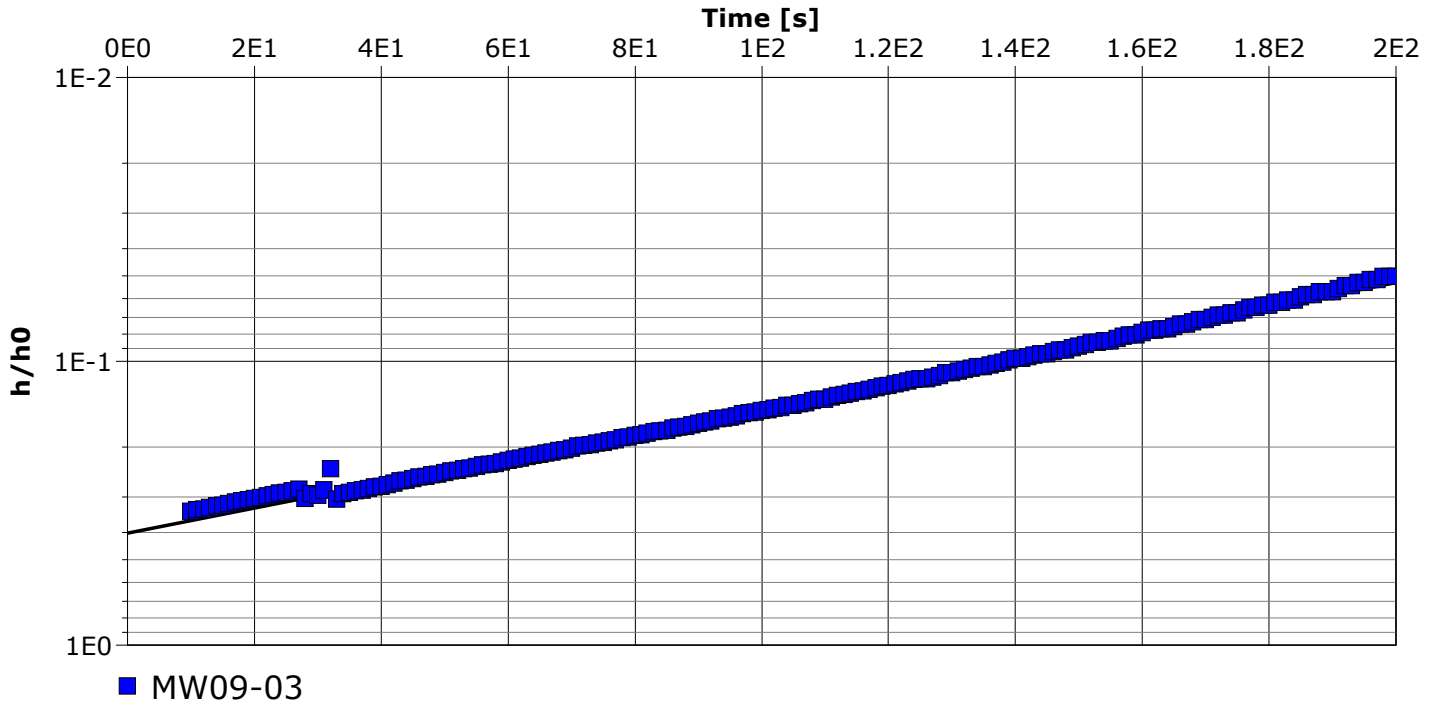
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-03 Slug Test	Test Well: MW09-03
Test Conducted by: SKS		Test Date: 6/2/2012
Analysis Performed by: SKS	MW09-03 Slug Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-03	1.16×10^{-5}

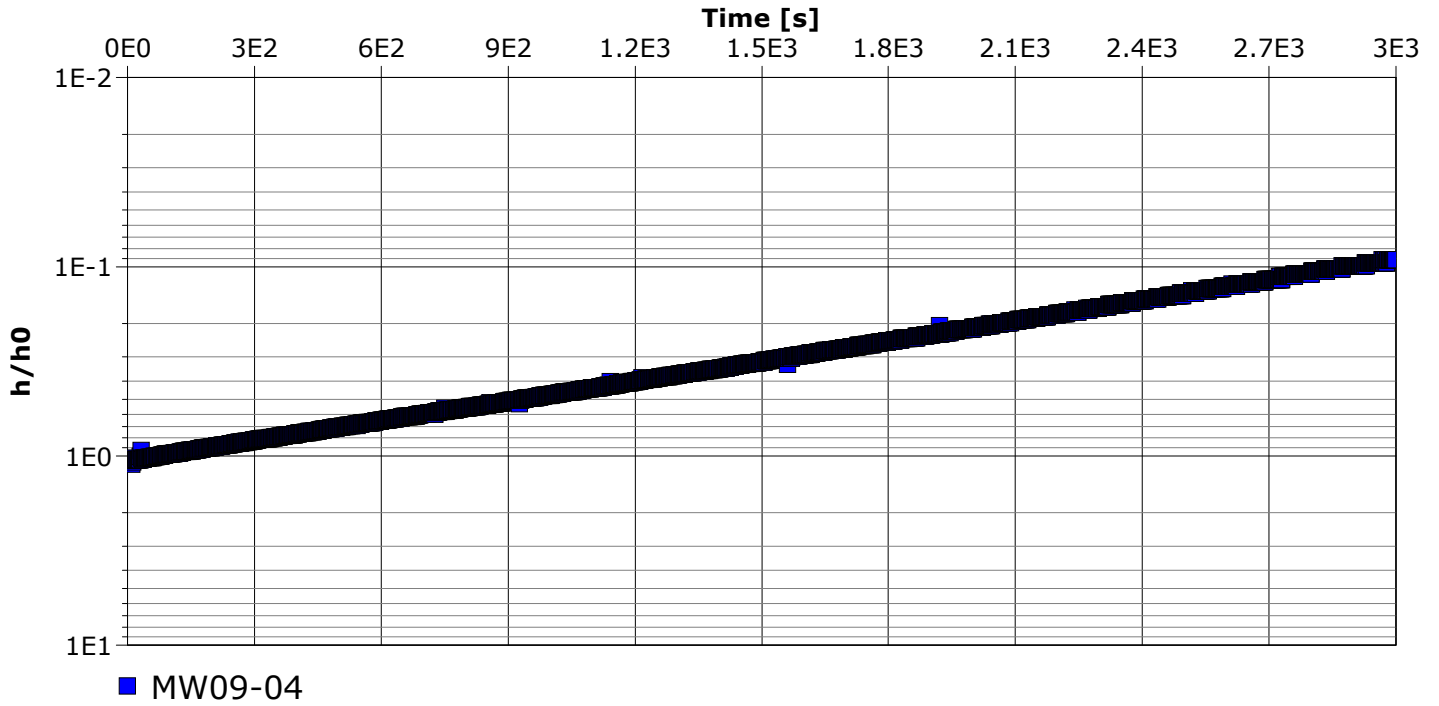
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-04 Slug Test	Test Well: MW09-04
Test Conducted by: SKS		Test Date: 6/2/2012
Analysis Performed by: SKS	MW09-04 Slug Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-04	7.12×10^{-7}

EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine

Slug Test: MW09-17 Bail Test 1

Test Well: MW09-17

Test Conducted by: SKS

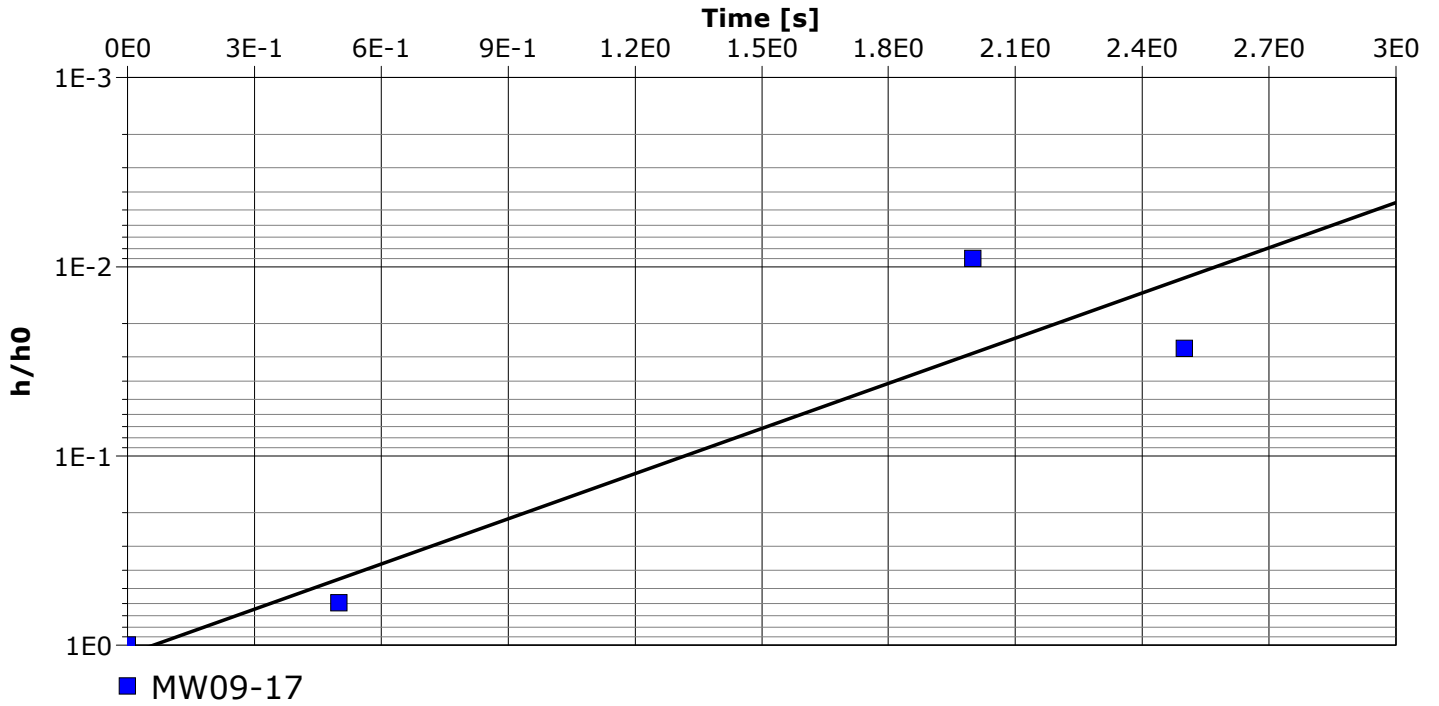
Test Date: 6/6/2012

Analysis Performed by: SKS

MW09-17 Bail Test 1

Analysis Date: 6/13/2012

Aquifer Thickness: 10.00 m



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-17	1.59×10^{-3}

EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine

Slug Test: MW09-17 Bail Test 2

Test Well: MW09-17

Test Conducted by: SKS

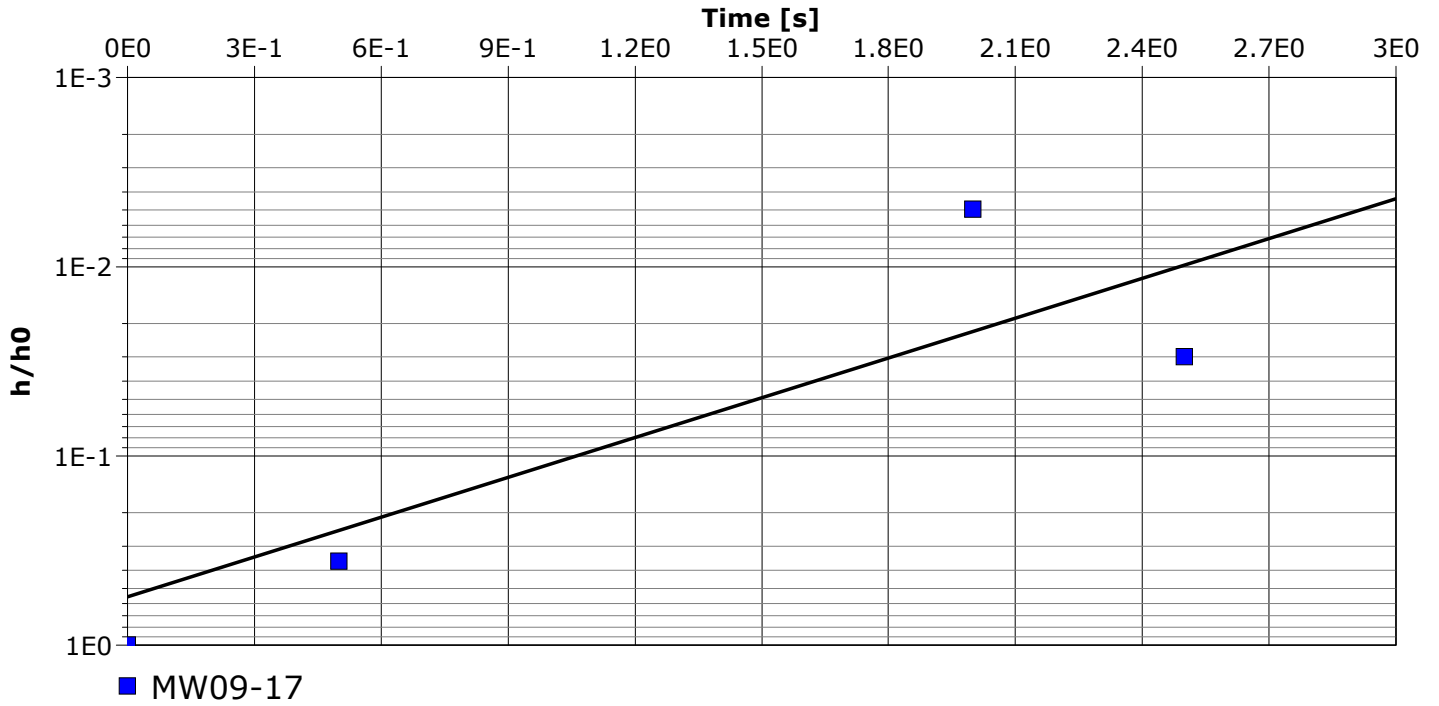
Test Date: 6/6/2012

Analysis Performed by: SKS

MW09-17 Bail Test 2

Analysis Date: 6/13/2012

Aquifer Thickness: 10.00 m



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-17	1.40×10^{-3}

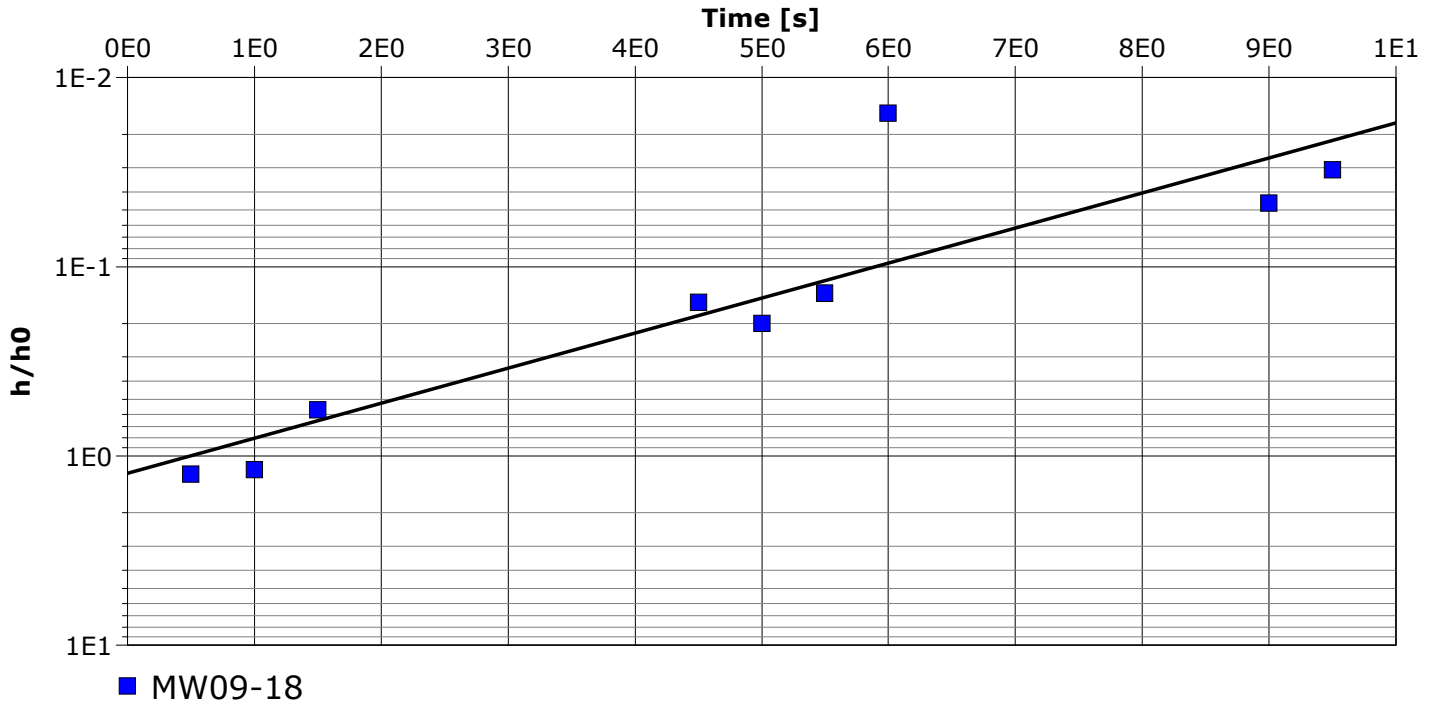
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-18 Bail Test 2	Test Well: MW09-18
Test Conducted by: SKS		Test Date: 6/6/2012
Analysis Performed by: SKS	MW09-18 Bail Test 2	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-18	6.01×10^{-4}

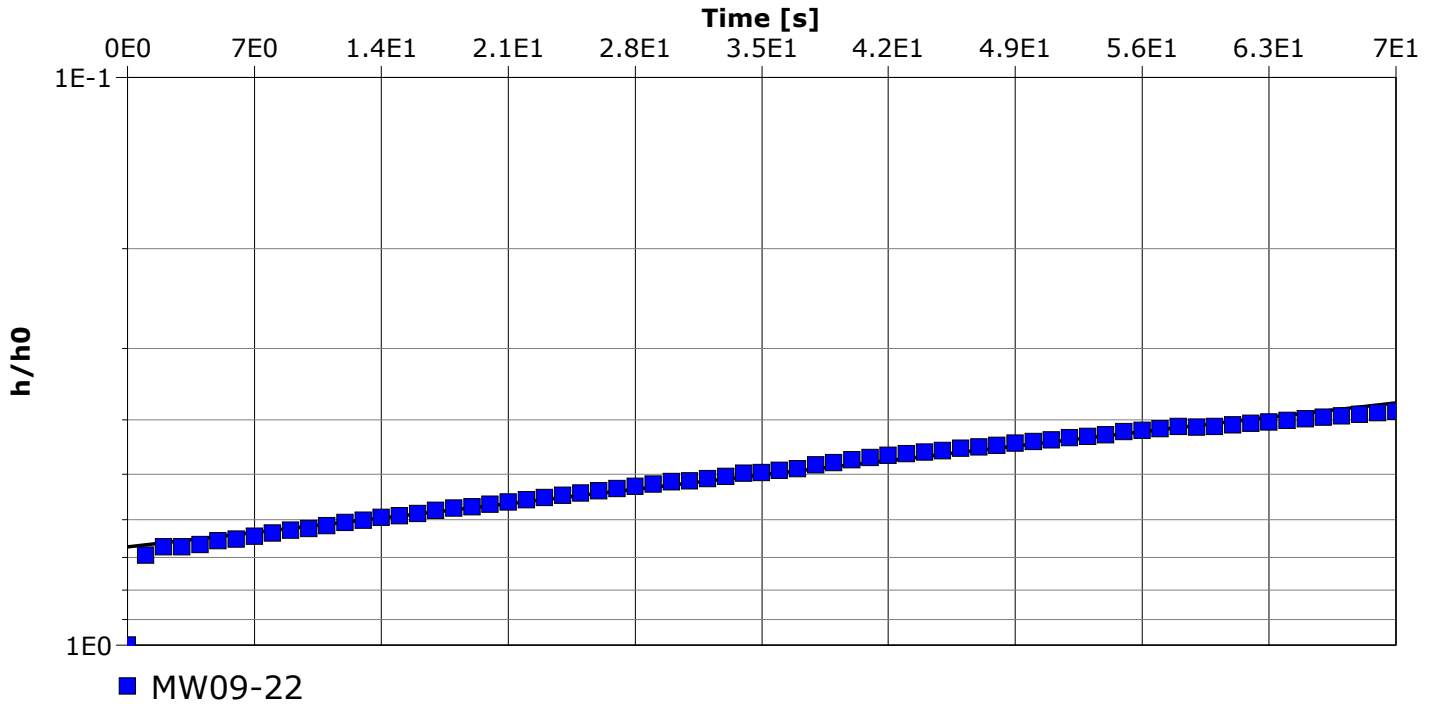
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-22 Bail Test	Test Well: MW09-22
Test Conducted by: SKS		Test Date: 6/4/2012
Analysis Performed by: SKS	MW09-22 Bail Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-22	7.23×10^{-6}

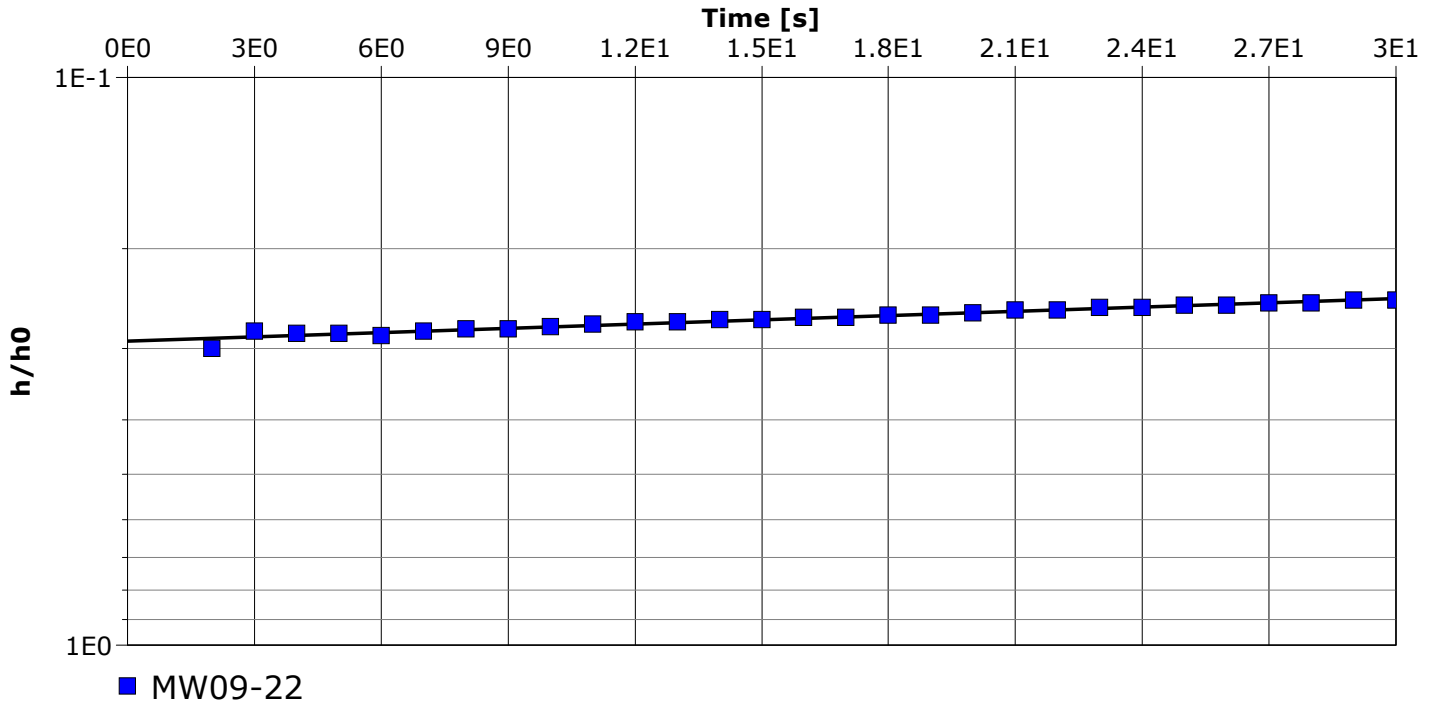
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-22 Slug Test	Test Well: MW09-22
Test Conducted by: SKS		Test Date: 6/4/2012
Analysis Performed by: SKS	MW09-22 Slug Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-22	4.96×10^{-6}

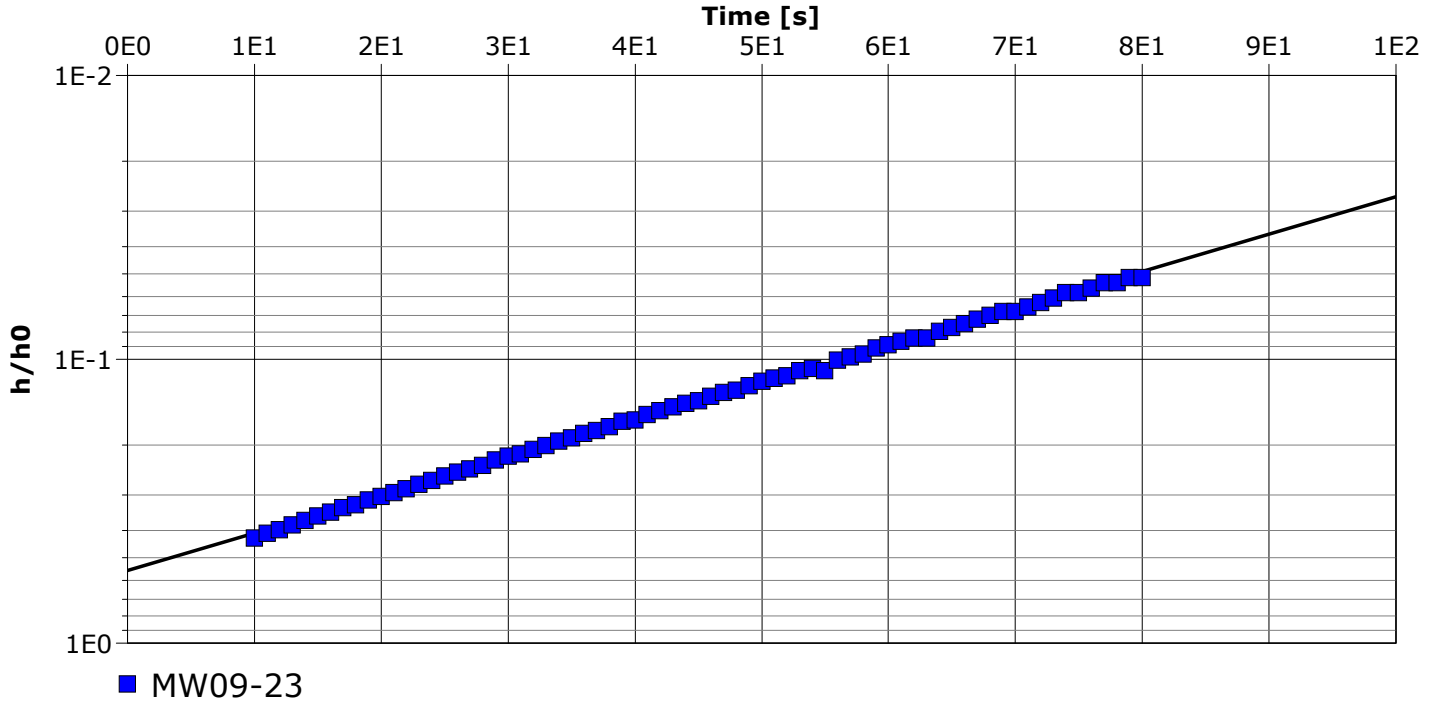
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-23 Slug Test	Test Well: MW09-23
Test Conducted by: SKS		Test Date: 6/2/2012
Analysis Performed by: SKS	MW09-23 Slug Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-23	2.65×10^{-5}

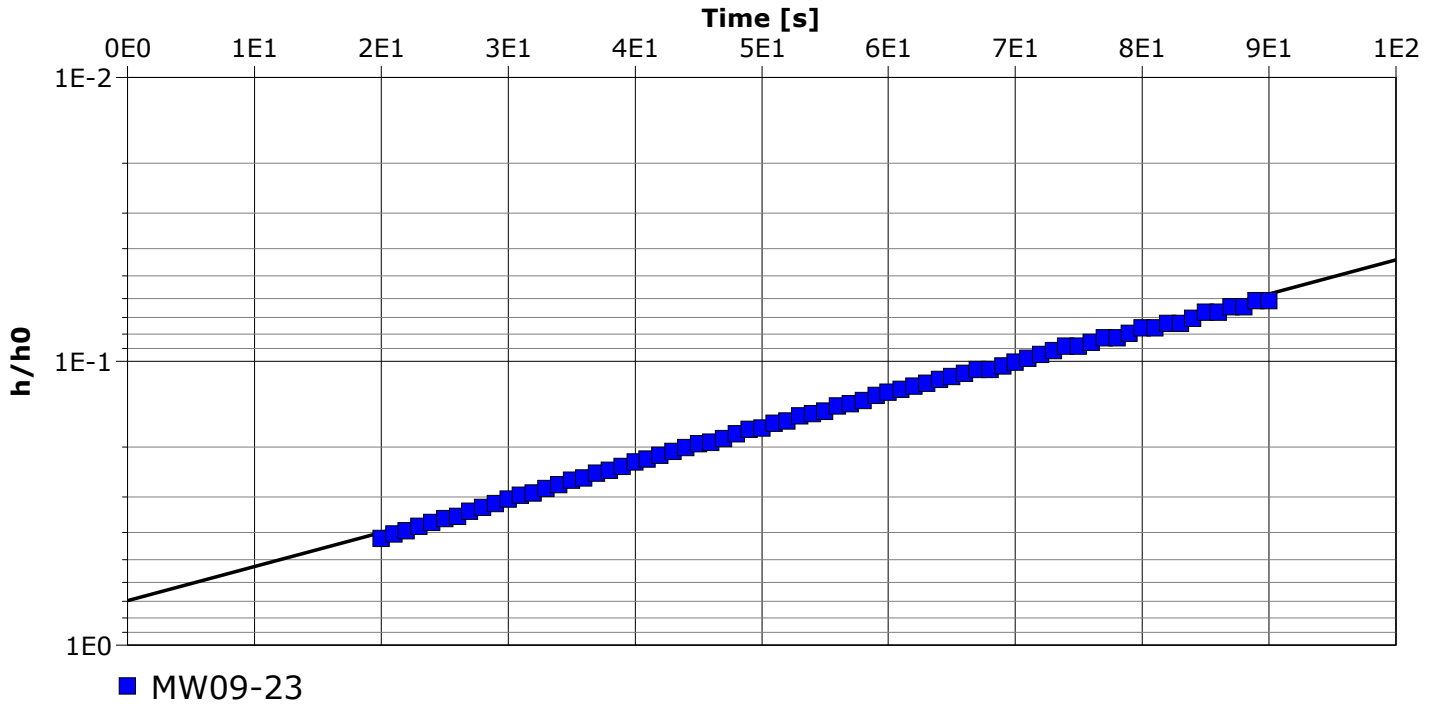
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-23 Bail Test	Test Well: MW09-23
Test Conducted by: SKS		Test Date: 6/2/2012
Analysis Performed by: SKS	MW09-23 Bail Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-23	2.41×10^{-5}

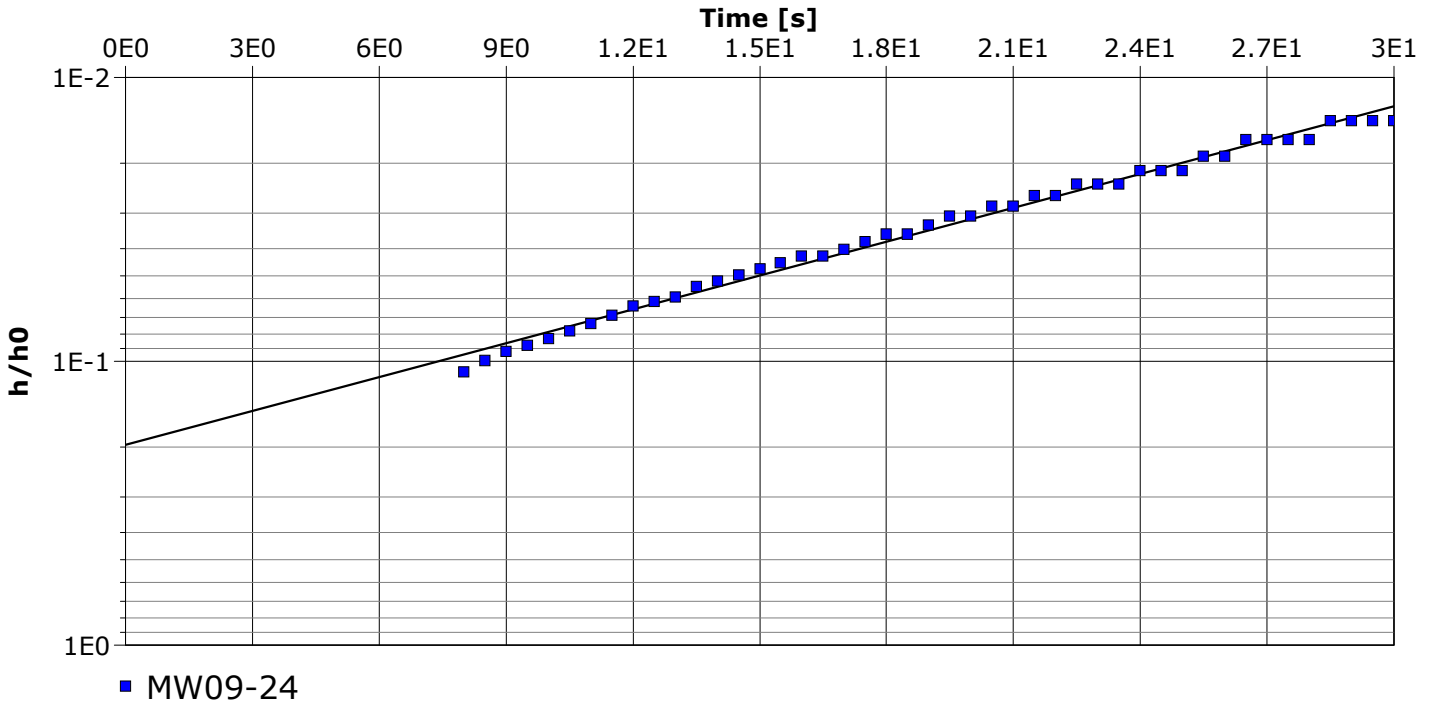
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-24 Bail Test	Test Well: MW09-24
Test Conducted by: SKS		Test Date: 6/3/2012
Analysis Performed by: SKS	MW09-24 Bail Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-24	6.93×10^{-5}

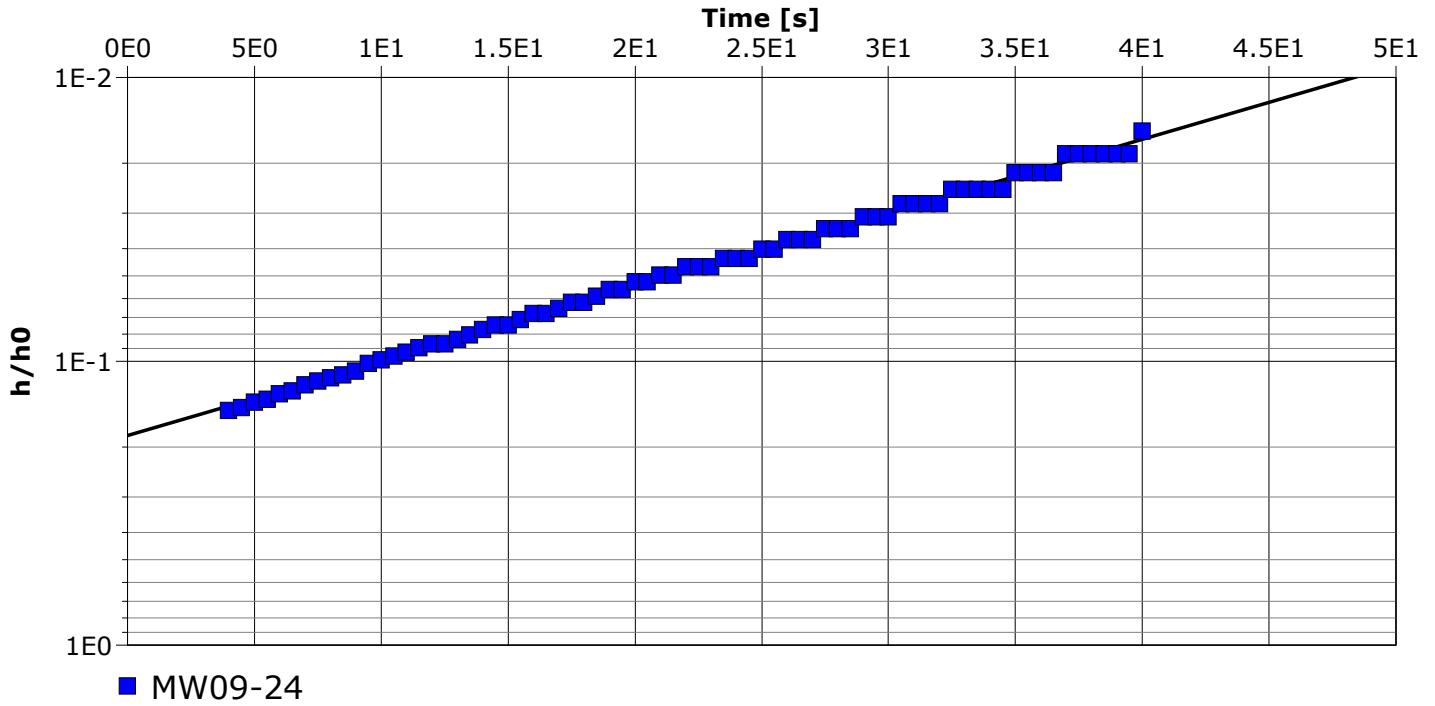
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MW09-24 Slug Test	Test Well: MW09-24
Test Conducted by: SKS		Test Date: 6/3/2012
Analysis Performed by: SKS	MW09-24 Slug Test	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MW09-24	4.55×10^{-5}

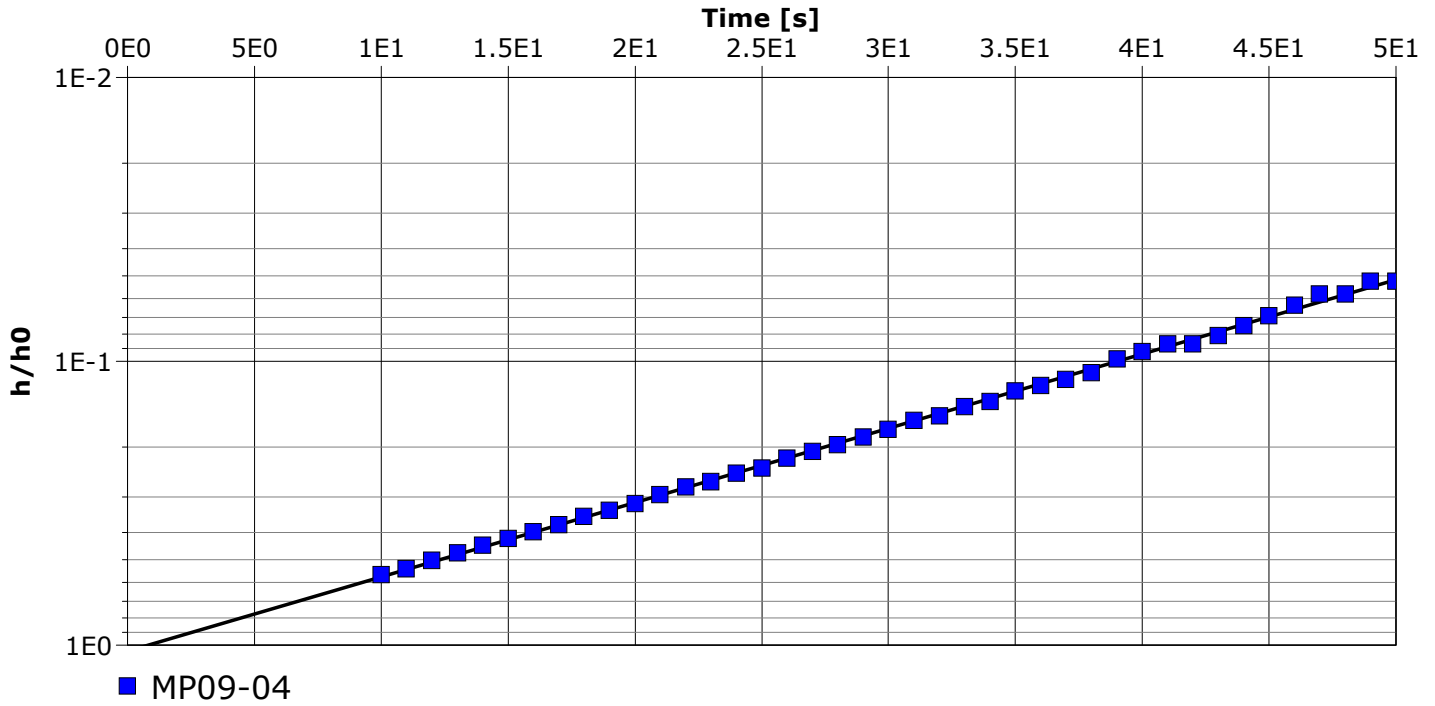
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MP09-04 Bail Test 1	Test Well: MP09-04
Test Conducted by: SKS		Test Date: 6/3/2012
Analysis Performed by: SKS	MP09-04 Bail Test 1	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MP09-04	2.44×10^{-5}

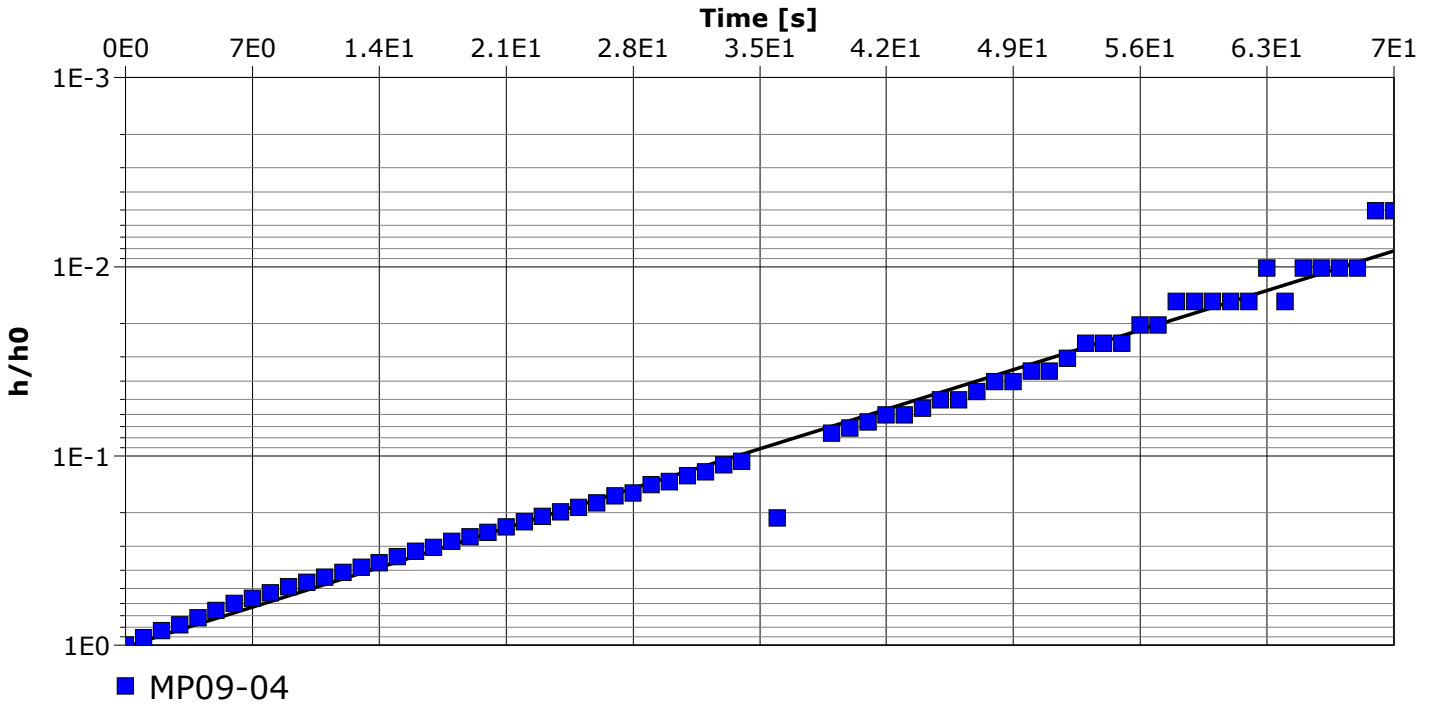
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MP09-04 Bail Test 2	Test Well: MP09-04
Test Conducted by: SKS		Test Date: 6/3/2012
Analysis Performed by: SKS	MP09-04 Bail Test 2	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MP09-04	2.78×10^{-5}

Slug Test Analysis Report

Appendix C

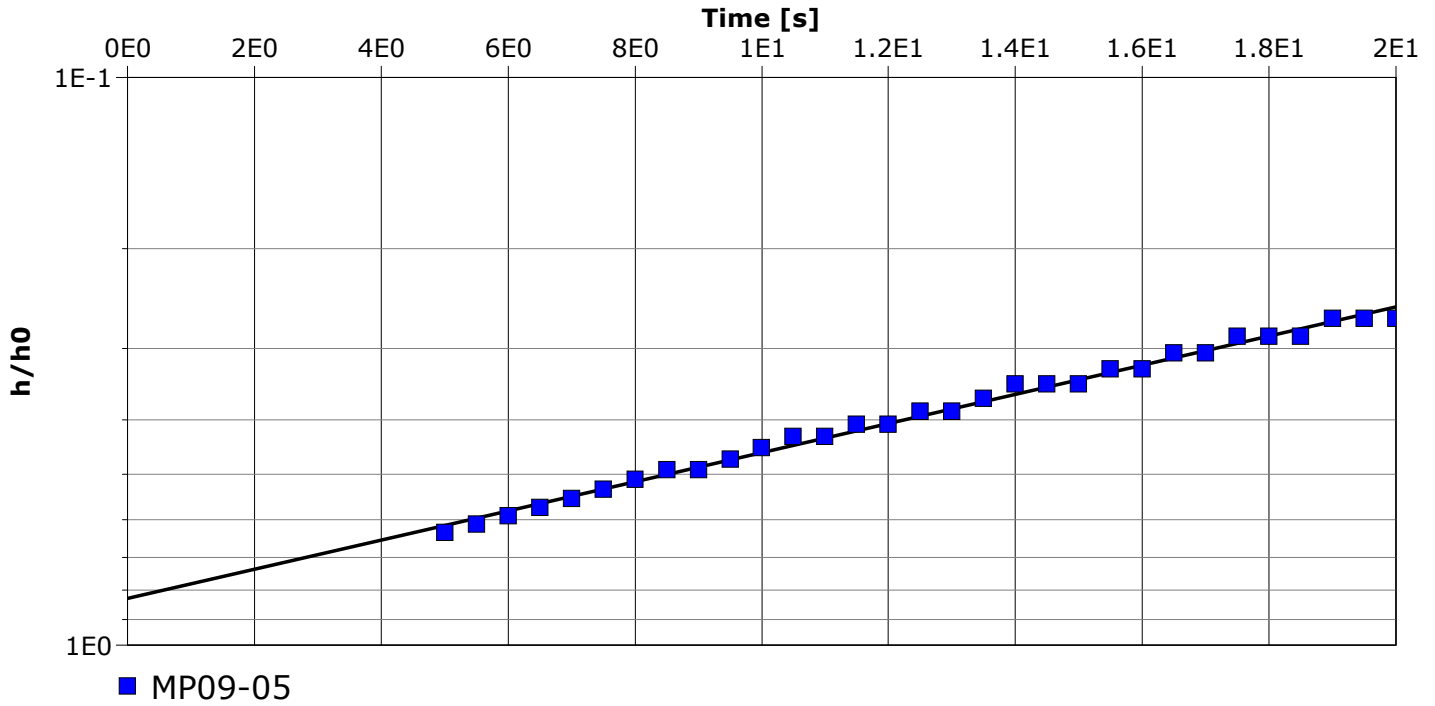
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MP09-05 Bail Test 1	Test Well: MP09-05
Test Conducted by: SKS		Test Date: 6/6/2012
Analysis Performed by: SKS	MP09-05 Bail Test 1	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MP09-05	5.05×10^{-5}

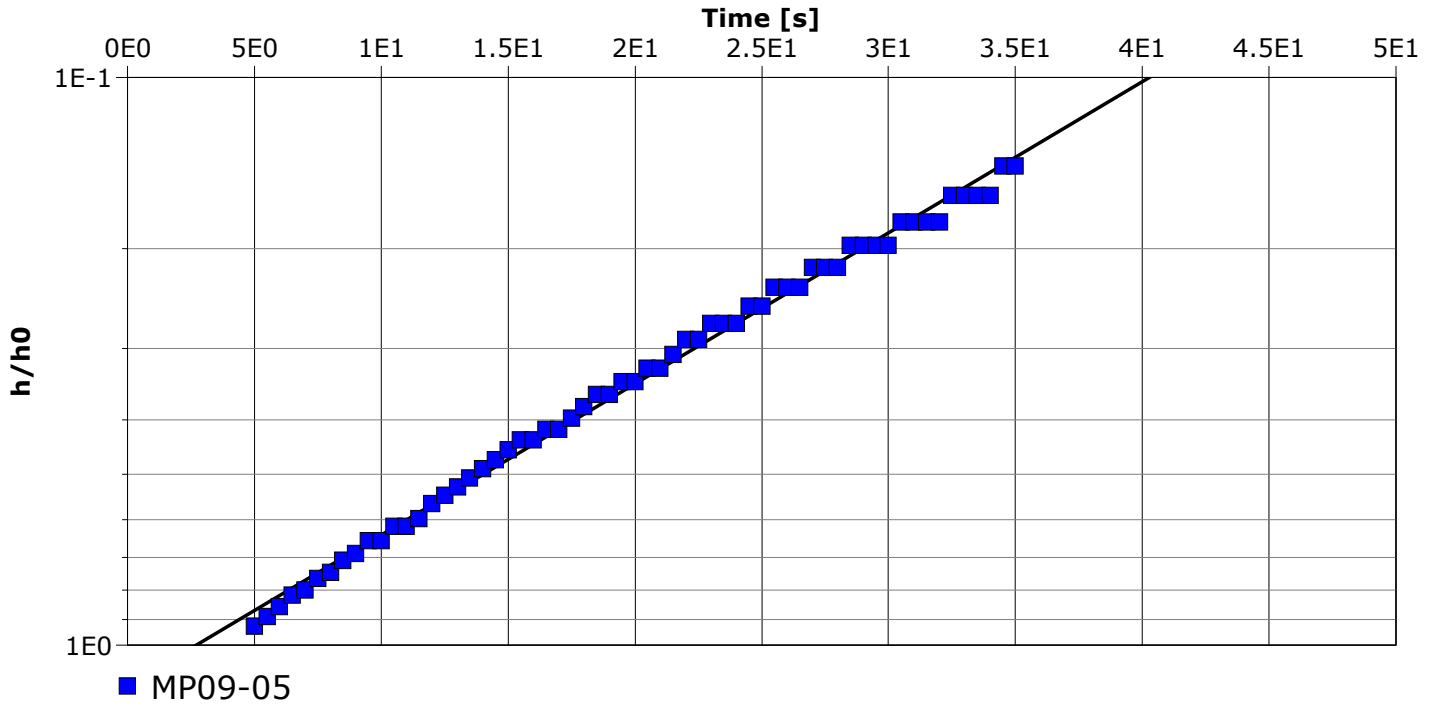
EBA, A Tetra Tech Company

Project: Mount Nansen Groundwater Investigation

Number: W23101586

Client: Yukon Government AAM

Location: Mount Nansen Mine	Slug Test: MP09-05 Bail Test 2	Test Well: MP09-05
Test Conducted by: SKS		Test Date: 6/6/2012
Analysis Performed by: SKS	MP09-05 Bail Test 2	Analysis Date: 6/13/2012
Aquifer Thickness: 10.00 m		



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity [m/s]
MP09-05	5.23×10^{-5}

APPENDIX C

EBA'S GENERAL CONDITIONS

GENERAL CONDITIONS

GEO-ENVIRONMENTAL REPORT

This report incorporates and is subject to these “General Conditions”.

1.0 USE OF REPORT AND OWNERSHIP

This report pertains to a specific site, a specific development, and a specific scope of work. It is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site or proposed development would necessitate a supplementary investigation and assessment.

This report and the assessments and recommendations contained in it are intended for the sole use of EBA's client. EBA does not accept any responsibility for the accuracy of any of the data, the analysis or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA's Client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of EBA. Additional copies of the report, if required, may be obtained upon request.

2.0 ALTERNATE REPORT FORMAT

Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA's instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. The Client warrants that EBA's instruments of professional service will be used only and exactly as submitted by EBA.

Electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

3.0 NOTIFICATION OF AUTHORITIES

In certain instances, the discovery of hazardous substances or conditions and materials may require that regulatory agencies and other persons be informed and the client agrees that notification to such bodies or persons as required may be done by EBA in its reasonably exercised discretion.

4.0 INFORMATION PROVIDED TO EBA BY OTHERS

During the performance of the work and the preparation of the report, EBA may rely on information provided by persons other than the Client. While EBA endeavours to verify the accuracy of such information when instructed to do so by the Client, EBA accepts no responsibility for the accuracy or the reliability of such information which may affect the report.