

GOVERNMENT OF YUKON
DEPARTMENT OF COMMUNITY SERVICES

HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY



REPORT

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EXECUTIVE SUMMARY

The Government of Yukon (Department of Community Services) engaged EBA, A Tetra Tech Company to install a groundwater monitoring well network, undertake a groundwater monitoring event and prepare a hydrogeological assessment of the Champagne Waste Disposal Facility.

EBA directed and supervised the drilling and installation of four monitoring wells in October 2010 and undertook a groundwater monitoring event in November 2010. This report has been prepared in accordance with the agreed scope of work and presents conclusions and recommendations based on the hydrogeological conditions encountered during the fall 2010 field works.

The following conclusions are made based on the findings of the 2011 Hydrogeological Assessment:

- Four monitoring wells CH-MW01, CH-MW02, CH-MW03 and CH-MW04 were installed in October 2010 in areas north, south and east of the waste disposal facility to establish a groundwater monitoring network at the Site. All monitoring wells were completed in till with a slotted section at the well bottom to allow groundwater entry;
- Based on groundwater elevation data, monitoring wells CH-MW02 and CH-MW03 appear to be down-gradient of the Site, CH-MW04 is down/cross gradient of the Site and CH-MW01 up-gradient; however, additional groundwater elevation data are necessary to identify potential seasonal changes and confirm the conceptual hydrogeological model;
- No monitoring or sampling of groundwater is believed to have been conducted at the Site prior to the fall 2010 field program;
- The conceptual hydrogeological model indicates that groundwater flow downgradient of the Site is expected to be predominately to the southwest towards the Community of Champagne and the Dezadeash River.
- Analysis of the rising head hydraulic response test results show that the geometric mean hydraulic conductivity of the till is 1.2×10^{-6} m/s and the maximum hydraulic conductivity calculated is 5.0×10^{-6} m/s in CH-MW03;
- Groundwater from all monitoring wells on site can be characterized as calcium-magnesium-bicarbonate-sulphate type groundwater;
- Concentrations of manganese in all monitoring wells exceeded the CSR-Drinking Water (aesthetic) criteria and exceeded the CSR-Irrigation Water standard at CH-MW03 and CH-MW04;
- The concentration of molybdenum in all monitoring wells exceeded the CSR-Irrigation Water standard;
- Concentrations of uranium at monitoring well CH-MW01 and CH-MW03 exceeded the CSR-Irrigation Water standard;
- All other analytes were below the applicable guideline criteria;
- All organics results reported concentrations below the laboratory MDL;

- An underground water storage tank located west of the domestic garbage burial trench contains an unknown volume of waste oil and potentially other contaminants and poses a potential contamination risk to groundwater;
- Concentrations of ammonia and sulphate, both indicators of leachate contamination, are considered to be representative of background conditions given the consistent and low concentrations reported in all wells on site. This conclusion is supported by the low DOC concentrations and almost identical geochemistry exhibited in all wells, which indicates no impact from landfill leachate.

The following recommendations are made based on the findings of this 2010 Hydrogeological Assessment report:

- As required by the Site's Waste Disposal Facility Permit, future monitoring programs should be completed once during the spring freshet when the most significant groundwater recharge occurs and once in late summer;
- The liquid within the underground storage tank should be sampled and analyzed prior to being disposed of appropriately. Following the removal of the liquid currently in the tank, a pressure test should be conducted to assess the potential for leakage to the subsurface. The tank should also be locked as soon as possible to prevent unauthorized access and disposal of unauthorized material;
- CH-MW01, CH-MW02, CH-MW03 and CH-MW04 should be surveyed by a professional surveyor for location and elevation prior to the next monitoring round. Elevations from the top of the PVC casing and from ground level immediately adjacent to the well should be reported;
- Following the survey of the monitoring wells and the next two rounds of sampling in 2011, data should be reviewed by a qualified hydrogeologist and the need for additional up-gradient and down-gradient monitoring wells assessed.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
1.0 INTRODUCTION	6
1.1 BACKGROUND	6
1.2 PURPOSE AND OBJECTIVES	6
1.3 SCOPE AND SEQUENCE OF WORK	6
1.4 QUALIFICATIONS OF ASSESSORS	7
1.5 AUTHORIZATION	8
2.0 SITE DESCRIPTION AND HISTORY	8
2.1 LOCATION OF STUDY AREA	8
2.2 SITE HISTORY	8
3.0 METHODOLOGY	11
3.1 HYDROGEOLOGICAL ASSESSMENT	11
3.1.1 Data Sources	11
3.1.2 Site Inspection	12
3.1.3 Background Geological Information	12
3.1.4 Contaminated Sites Registry	12
3.1.5 Interviews with Waste Disposal Facility Personnel	12
3.1.6 Review of Waste Disposal Facility Permit and Waste Management Plan	13
3.1.7 Review of Environment Yukon Information	13
3.1.8 Review of EBA Internal Database	13
3.2 FIELD INVESTIGATIONS	14
3.2.1 Scope of Field Investigations	14
3.2.2 Groundwater Monitoring Well Network	14
3.2.3 Monitoring Well Surveying	16
3.2.4 Groundwater Monitoring Event	17
3.2.5 Rising Head Hydraulic Response Tests	17
3.3 LABORATORY TESTING	17
3.4 QUALITY CONTROL/QUALITY ASSURANCE	18
3.5 Application of Applicable Water Quality Standards	20
4.0 CONCEPTUAL HYDROGEOLOGICAL MODEL	22
4.1 SETTING	22
4.2 CLIMATE	22
4.3 GEOLOGY AND HYDROGEOLOGY	22
4.3.1 Geological Framework	22
4.3.2 Principal Aquifers	23
4.4 GROUNDWATER FLOW SYSTEMS	24
4.4.1 Regional and Intermediate Groundwater Flow	24
4.4.2 Local Groundwater Flow	24

4.4.3	Groundwater Elevations, Flow Direction, Gradient	24
4.5	RISING HEAD TEST RESULTS	25
4.6	ESTIMATED AVERAGE LINEAR GROUNDWATER VELOCITY.....	25
4.7	POTENTIAL FOR CONTAMINATION OF GROUNDWATER AND TRANSPORT MECHANISMS ..	26
5.0	GROUNDWATER IMPACT ASSESSMENT.....	27
5.1	REVIEW OF GROUNDWATER CHEMISTRY	27
Total Dissolved Solids.....	28	
Ammonia	28	
Dissolved Organic Carbon	28	
Sulphate	28	
Metals.....	29	
Organics.....	29	
5.2	INTERPRETATION OF GROUNDWATER CHEMISTRY	29
6.0	CONCLUSIONS	30
7.0	RECOMMENDATIONS	31
8.0	CLOSURE.....	32
REFERENCES		33

TABLES

- Table 1 Groundwater Analytical Results
Table 2 Groundwater Duplicate RPD'S

FIGURES

- Figure 1 Site Location
Figure 2 Site Plan and Cross Section Alignment
Figure 3 Regional Geology
Figure 4 Conceptual Hydrogeological Cross Section A – A'
Figure 5 Regional Drainage and Land Zoning
Figure 6 Groundwater Elevation Contours (November 2010)
Figure 7 Schoeller Plot
Figure 8 Piper Diagram
Figure 9 Stiff Diagrams

APPENDICES

- Appendix A EBA's General Conditions
- Appendix B Champagne Waste Disposal Facility Permit
- Appendix C Monitoring Well logs
- Appendix D Groundwater Well Development Logs
- Appendix E Groundwater Sampling Field Sheets
- Appendix F Laboratory Analytical Results
- Appendix G Hydraulic Response Test Data and Analysis

1.0 INTRODUCTION

1.1 BACKGROUND

EBA, A Tetra Tech Company (EBA) have been retained by the Government of Yukon (YTG), Department of Community Services, to design and install a groundwater monitoring network, undertake a groundwater monitoring event and prepare a Hydrogeological Assessment Report at the Champagne Waste Disposal Facility (the “Site”).

These works have been performed in accordance with the approved scope of work detailed in EBA’s proposal (Doc. Ref. PW23101317) dated February 2010, accepted by YTG on May 8, 2010 and additional works detailed in EBA’s Technical Memo dated April 29, 2010 accepted by YTG on June 21, 2010.

1.2 PURPOSE AND OBJECTIVES

The purpose of this study is to assess the impact of waste disposal at the Site upon local groundwater quality.

The specific objectives of this study were to:

- Design and install a monitoring well network sufficient to provide an assessment of the Site’s impact on groundwater quality;
- Assess groundwater quality against relevant Yukon water quality standards;
- Recommend further works to be completed to more comprehensively assess impact to groundwater quality as appropriate.

1.3 SCOPE AND SEQUENCE OF WORK

The following scope of work was proposed to develop the conceptual hydrogeological model for the Site. This work was performed in accordance with the Site’s Waste Disposal Facility Permit (Permit No: 80-009, Effective January 1, 2010 to December 31, 2011), relevant Environment Yukon Protocols and in accordance with the Yukon Environmental & Socioeconomic Assessment Act (YESAA) Decision Document issued for the Site (YESAA File Number: 2008-0260). A copy of the current Waste Disposal Facility Permit is provided in Appendix B.

In summary, the proposed scope of work included a desktop study, followed by a field investigation program consisting of the installation of a groundwater monitoring network, water level monitoring, aquifer testing, groundwater sampling and analysis from the monitoring well network, followed by interpretation of results to provide a comprehensive Hydrogeological Assessment Report detailing the impact to groundwater quality and risk to downgradient receptors. This work was undertaken in general conformance with relevant Yukon Contaminated Sites Regulation (YCSR) protocols (Yukon Department of Environment, 2007a, 2007b, 2008a, 2008b).

To complete the scope of work, EBA completed the following tasks:

- Background data collation and review;
- Installation of a monitoring well network;
- Development of monitoring wells;
- Sampling and testing of groundwater;
- Aquifer testing (hydraulic conductivity);
- Data review and interpretation of results;
- Reporting.

Table 1-1 summarizes the tasks and sequence of events to arrive at this report.

Table 1-1: Site Assessment and Task Sequence

Date	Activity
8 May 2010	EBA formally appointed by YTG to undertake the work.
3 July 2010	Site inspection by Adam Seeley of EBA.
19 - 26 October 2010	Groundwater monitoring wells installed by Geotech Drilling under the supervision of EBA. Development of monitoring wells undertaken by EBA.
9 November 2010	Groundwater monitoring event and slug testing of monitoring wells undertaken by EBA.
11 March 2011	Report Issued For Review

1.4 QUALIFICATIONS OF ASSESSORS

Mr. Adam Seeley, M.Hyd. conducted the initial site inspection, coordinated and supervised drilling works, and prepared this assessment report. Mr. Seeley is a Hydrogeologist with EBA's Whitehorse Environment Group, with 9 years experience in the environmental and hydrogeological fields and has been involved in groundwater monitoring and reporting programs at over 50 sites in Australia and Yukon, Canada.

Ms Breanne Waggott, B.Sc. conducted a site inspection, supervised drilling works, and assisted in the preparation of this assessment report. Ms. Waggott is a Junior Hydrogeologist with EBA's Whitehorse Environment Group, with 1 year experience in the environmental hydrogeology field. Throughout her time at EBA she has assisted multiple field and desktop based hydrogeological assessments.

Ms. Tamra Reynolds, M.Sc., P.Geo. reviewed this report. Ms. Reynolds is a Senior Contaminant Hydrogeologist with EBA's Whitehorse Environment Group, with 15 years of experience in the environmental and hydrogeological fields. She has conducted over 100 Environmental Site Assessments, hydrogeological evaluations, and remediations at sites across Canada including Yukon. Ms. Reynolds has

been registered as a Professional Geoscientist (hydrogeologist) with the Association of Professional Engineers and Geoscientists of British Columbia since 2001.

1.5 AUTHORIZATION

Written authorization and a signed contract to proceed with the works detailed in EBA's proposal (Doc. Ref. PW23101317) dated February 2010 were received from Bill Brown, YTG Project Manager via email on May 19, 2010.

EBA received verbal authorization from the Government of Yukon, Department of Community Services on June 21, 2010 to proceed with the additional assessment work outlined in EBA's Technical Memo dated April 29, 2010. A Change Order signed by both Mr. Marc Perreault, a Director at the Yukon Government, and an EBA representative authorizing additional tasks to complete water sampling and hydrogeological assessments at the project site was received by EBA on July 9, 2010.

2.0 SITE DESCRIPTION AND HISTORY

2.1 LOCATION OF STUDY AREA

Champagne Waste Disposal Facility (WDF) is located 75 km west of Whitehorse, on the Champagne Access Road on Deposition #115A16-007 at a latitude of 60° 47' 24" N and longitude of 136° 27' 35" W. The community of Champagne is located approximately 1.2 km to the west of the Site.

The Dezadeash River is the closest major water body to the Site, located 1.5 km to the west/southwest. The site location and surrounding features are shown in Figure 1.

The Site is located at an elevation of approximately 728 meters above sea level (masl) on relatively flat terrain.

Photo 1 shows a view of the Site with the domestic garbage burial trench on the right beside the burning vessel, used vehicle tires stockpiled in the center and waste oil, batteries, paint, miscellaneous household items and construction debris on the left. Further to the left and out of shot, a number of cars have been stockpiled. In the background and directly west of the current active disposal area is a large excavated pit with a drop in elevation from ground level of approximately 2 meters.

2.2 SITE HISTORY

The Champagne WDF is owned and maintained by the Government of Yukon and used by the surrounding local residents from Champagne, Kusawa and the Mendenhall and Takhini subdivisions. Deposition of waste at the Site is believed to have commenced in the 1940's during the development of the Alaska Highway by the US Military. The use of the Site prior to waste disposal is unknown. Military waste is believed to have been dumped at various unknown locations around Champagne but no specific information indicates military waste was deposited at Champagne WDF (Peter Zurachenko pers. comm.). The Site's Solid Waste Management Plan (Access, et al., 2003) details the wastes historically received, which included: domestic waste and waste metals, construction and organic debris, batteries, tires, barrels, white metal and derelict vehicles. As the military's presence in the region during the 1940's was primarily related to the construction of the Alaska highway, it would be expected that waste deposited would

typically be related to this purpose and include domestic refuse, along with construction debris and possibly chemicals used in the road construction process.



Photo 1: Champagne WDF- October 2010 (view northwest)

Currently, access to the Site is controlled by an unlocked gate, with electrical wire fences around the majority of the operational perimeter and a cattle gate at the Site entrance. The Site is not typically maintained by a site supervisor, potentially resulting in the uncontrolled deposition of waste. During the October site visit for the monitoring well drilling, it was observed on October 19, 2010 that waste in the center of the Site contained predominantly construction and demolition debris with various other waste types including metals, grubbing waste and white metals. It was noted that paint, batteries and drums were not located on the provided platforms and containers containing hydrocarbons, oils and other unknown substances were open and unsecured. Photo 2 shows the area containing waste oil, drums, batteries and paint on October 19, 2010. Upon returning to the Site on October 25, 2010 after a scheduled break, miscellaneous waste previously located in the center of the site had been moved and placed in locations of similar waste whilst construction and demolition waste was being burned. Chemical containers had been placed upright and batteries and paint were moved on the provided platforms. During the November 2010 sampling round domestic garbage waste located in the burn vessel was being burned.

Copies of site plans dated July 2002 and September 2004 were provided to EBA and are also included in the Site's Solid Waste Management Plan (SWMP) (Access, et al, 2003). These plans show the historical segregation of waste as well as the current domestic garbage burial trench.



Photo 2: Champagne WDF- Waste Oil, Drums, Paint, Batteries - October 2010

Waste observed on site during the October 2010 visit included tires, washers, driers, fridges, freezers, car bodies, construction, demolition material and grubbing waste, metals, household waste, batteries, drums, waste oil and paint. Household waste is deposited in a designated trench, where it is burned and buried periodically. All types of waste with the exception of the active domestic garbage burial trench are stored in alternate locations than those shown in the 2002 and 2004 site plans. During the October site investigation evidence of buried waste was seen on the steep slope next to the excavated area west of the WDF. Such buried waste was not shown on the provided site plans, indicating that the site plan does not show the lateral extent of buried waste at the Site. A site plan showing historical and present locations of buried and stockpiled waste is provided in Figure 2.

As shown in Figure 2, an underground water storage tank is located northwest of the active domestic burial site. Photo 3 shows a view of the top of the tank taken during the October 2010 site works. The volume and dimensions of the storage tank are unknown. The tank is intended to be filled with water in the warmer months and used for fire suppression if required (Jason Doucet, pers. comm., January 2011). Upon investigation during the October 2010 site works, the storage tank was noted to contain an unknown volume of waste oil. It appears that significant amounts of waste oil have been deposited in the tank over an unknown period. It was indicated that disposal of oil into this tank was not permitted and the storage tank would be emptied and filled with water when weather permits (Jason Doucet, pers. comm., January 2011). In addition to the contamination risk posed by oil in the underground storage tank, there is the possibility that oil has been spilled on the ground surrounding the tank during disposal, contaminating the surrounding soil and possibly infiltrating to groundwater.



Photo 3: Champagne WDF- Below Ground Storage Tank Containing Waste Oil - October 2010

The SWMP details a procedure for the practice of open burning and covering of burned waste. The preferred cover material is native clay and silts sourced from disposal trenches which are typically low in permeability, limiting infiltration of water. There is not believed to be a final lining or capping of former deposition areas with engineered low permeability material.

3.0 METHODOLOGY

3.1 HYDROGEOLOGICAL ASSESSMENT

The hydrogeological assessment methodology involved an assessment of existing information and an inspection of the landfill site and surrounding area on July 3, 2010 and October 19, 2010. The purpose of the preliminary hydrogeological assessment was to identify appropriate monitoring well locations that are likely covering up- and down-gradient areas of the Site.

This component included the following tasks:

- Collation of background information;
- Assessment of the available groundwater data, bore logs and related hydrogeological information;
- Development of a Conceptual Hydrogeological Model.

3.1.1 Data Sources

Data used to complete the hydrogeological assessment was obtained from the following sources:

- Site inspections;
- Topographic and geological maps;
- EBA internal database search and review of past EBA assessment reports and maps;
- Operational permits issued by Environment Yukon for the Champagne WDF;
- Review of the Champagne Solid Waste Management Plan (June 2003);

- Environment Canada Climate Normals (1971 – 2000) (http://www.climate.weatheroffice.gc.ca/climate_normals/index_e.html);
- Yukon Water Well Registry, Department of Environment, Government of Yukon (<http://www.environmentyukon.gov.yk.ca/pdf/YukonWaterWellsSummary.pdf>)
- Contaminated Site Registry records at Yukon Environment; and,
- Interview with Yukon Government - Community Operator Supervisors.

3.1.2 Site Inspection

A site inspection was undertaken by EBA personnel on July 3, 2010. The purpose of this visit was to review the site location, layout and types of waste, confirm the expected geology and topography, to note aspects of geological and hydrogeological significance and to ascertain drill rig access for the proposed groundwater monitoring well locations.

3.1.3 Background Geological Information

Geological information was obtained through site visits, review of topographic and geological maps (from the Canadian and Yukon Geological Surveys) and geotechnical reports and maps. Additional subsurface information was gathered through an internal database search of EBA records for boreholes, test pits, monitoring wells, and soil tests completed at or in the vicinity of the Site.

3.1.4 Contaminated Sites Registry

Since 2002, when the Contaminated Site Regulation came into effect, Environment Yukon has been maintaining records of documented spills and reported contaminated sites throughout Yukon. This database is known as the Contaminated Site Registry. A request was made to Environment Yukon for a Contaminated Sites Registry search at the Champagne Waste Disposal Facility. Environment Yukon reported to EBA that the registry does not contain a record of any documented spills or contaminated sites within the Site boundary or nearby vicinity. It is noted that there remains a possibility of unreported or unassessed contamination sources within the vicinity of the Site. Spills documented prior to 2001 can be found through a request from Access to Information & Protection of Privacy Act (ATIP). Such a search was not within the scope of this project.

Military waste is believed to have been buried in the vicinity of Champagne WDF, and potentially at the Site, although the disposal locations are unknown (Peter Zurachenko pers. comm.).

3.1.5 Interviews with Waste Disposal Facility Personnel

EBA representatives met with Yukon Government Community Operations Supervisors Mr. Peter Zurachenko and Mr. Jason Doucet on June 23, 2010 to discuss information pertaining to the Champagne Waste Disposal Facility. Information obtained from this interview included:

- Brief site history;
- Historical waste deposition inventory and anecdotal information;

- Most up to date site plans;
- Special waste deposition/storage areas.

3.1.6 Review of Waste Disposal Facility Permit and Waste Management Plan

The Site's Waste Disposal Facility Permit (Permit No: 80-009) and Solid Waste Management Plan were reviewed and used in conjunction with relevant background information to assess accepted and potential waste streams, to aid in the assessment of potential contaminant transport mechanisms, to confirm monitoring requirements and develop a monitoring network in compliance with the permit. A summary of the main requirements of the permit in regards to this hydrogeological assessment are outlined in Table 3-1.

Table 3-1: Summary of Current Permit Groundwater Monitoring Requirements

Site	Waste Disposal Facility Permit No.	Solid Waste Management Plan	Permit Requires Groundwater Monitoring	Permit Specifies Groundwater Analysis List	Monitoring Schedule
Champagne Waste Disposal Facility	80-009	Yes (Access, et al, 2003)	Yes	Yes	Twice per year (Spring and late Summer)

3.1.7 Review of Environment Yukon Information

EBA representatives visited the Yukon Department of Environment on June 18, 2010 to conduct a review of information pertaining to the Champagne Landfill Facility. Information provided by the Yukon Department of Environment (Matthew Nefstead, Contaminated Sites Analyst) for review included:

- Current waste disposal facility permits (which included accepted waste streams and acceptance of special waste);
- Historical site reports, site plans, site inspection reports;
- Recorded spills on sites or neighboring contaminated sites; and,
- Other miscellaneous information related to the Site.

3.1.8 Review of EBA Internal Database

EBA retains a database of previous reports, which was reviewed for information pertaining to the Champagne Waste Disposal Facility. Relevant information was used to assess geological and hydrogeological conditions and assist in the determination of potential drill sites.

Available borehole logs and geochemical analytical data was reviewed from fourteen domestic water wells approximately 1.5 km to the southwest in the Champagne community and installed in similar geological formations to those found at the Site.

3.2 FIELD INVESTIGATIONS

3.2.1 Scope of Field Investigations

The scope of the hydrogeological assessment field investigation was as follows:

- Adam Seeley (EBA) conducted an inspection of the Champagne Waste Disposal Facility on July 3, 2010;
- Four onsite groundwater wells were drilled by Geotech Drilling under the supervision of EBA from October 19 to 26, 2010. Wells were developed immediately following the completion of the well installation;
- The four onsite groundwater wells were sampled by EBA on November 9, 2010. The water levels at each location were measured prior to purging and sampling and physicochemical parameters were tested at each monitoring well during sampling. Groundwater samples were sent to analytical laboratories accredited as conforming to ISO/IEC 17025 for analysis;
- Hydraulic response tests were conducted on all four wells in order to estimate the hydraulic conductivity of the aquifer. The slug test for CH-MW03 was performed on October 22, 2010, whereas the slug tests on the remaining wells (CH-MW01, CH-MW03, CH-MW04) were conducted on November 9, 2010; and,
- Field and laboratory results were summarized, interpreted and are presented in this report.

3.2.2 Groundwater Monitoring Well Network

Groundwater monitoring well installation was undertaken in general accordance with Yukon Contaminated Site Regulation Protocol 7 (YCSR, 2008).

Three (3) groundwater monitoring wells were proposed to be installed at the Site to assess potential groundwater contamination sourced from the waste disposal facility. CH-MW01 was targeted to characterize up-gradient groundwater conditions while CH-MW02 and CH-MW03 were aimed to assess any impact to the groundwater quality sourced from the landfill. Four (4) monitoring wells were installed in October 2010 under the direction of EBA to establish a groundwater monitoring network. An additional monitoring well, CH-MW04, was installed as a downgradient well due to the groundwater flow being different to that anticipated prior to the commencement of drilling.

Locations of the monitoring wells were selected based on aerial photography, review of geological and topographical information, review of site history and a site inspection. A site plan showing the approximate monitoring well locations and key site features is provided in Figure 2. Note that these wells have not been surveyed for location and are only approximate.

The drilling and monitoring well installation was completed by Geotech Drilling of Prince George, British Columbia under the direction of EBA on October 19 to 22 and 25 to 26, 2010. All wells were advanced using an air rotary drill rig to depths ranging between 15.2 and 18.3 m bgs. Obvious permafrost was not encountered in any borehole during drilling.

Grab samples were collected of drill cuttings on regular intervals to log the sediments. The borehole logs indicating observed lithology and monitoring well completion details are included in Appendix C, with a

summary of well completion details presented in Table 3-2. Groundwater was encountered in all wells approximately 11 to 14 m below grade in a sand to silt aquifer. The lithology encountered was similar at all four locations and consistent with the mapped lithological interpretations. Each borehole profile generally consisted of silt with minor layers of fine-grained sand, with a deeper sand and silt unit to the maximum depth investigated (18.3 m bgs).

Monitoring wells were installed in all four drilled boreholes. Installation details are included on the borehole logs in Appendix C. Typical completion details are:

- All wells were completed in sand or silt;
- All four wells were drilled and screens placed aiming to intersect the water table;
- Monitoring wells were completed with 50 mm Schedule 40 PVC pipes;
- A 3 to 4.6 m long well screen (0.010-slot) was installed with the intent that the observed groundwater table would be approximately 1 m below the top of the well screen;
- A solid un-slotted PVC pipe was installed above the well screen to about 0.9 m above grade;
- A silica sand pack was placed in the annulus between the well screen and the borehole wall. The sand pack was extended from the base of the borehole to about 0.6 m above the well screen;
- Approximately 0.6 m to 1.8 m of bentonite was placed in the annulus above the sand pack. The annulus was then filled with cuttings to around 1.0 m bgs;
- Two monitoring wells (CH-MW02 and CH-MW04) contain an additional 0.9 m bentonite seal in the annulus to act as a safeguard against infiltration of contaminants to the underlying aquifer;
- A surface seal consisting of 0.6 m of bentonite below 0.4 m of concrete was then installed to bring the borehole to ground level and limit surface water infiltration;
- Each well was capped with a PVC end-cap and the well PVC-standpipe protected and secured with a lockable steel protective casing; and,
- Each well was developed immediately following installation by removing a minimum of 3 well volumes using a dedicated disposable bailer. Development logs are provided in Appendix D.

Following the installation and survey of the initial three monitoring wells (CH-MW01, CH-MW02, CH-MW03), groundwater flow was determined to be in a generally southeast direction and the requirement to have one upgradient and two downgradient wells was not fully complied with. An additional monitoring well, CH-MW04, was installed south of the Site to assess the down-gradient flow through the landfill and obtain additional elevation data.

Table 3-2: Well Construction Details

Well ID	Drilled Depth* (m bgs)	Aquifer Unit Monitored	Casing Diameter (mm)	Screened Interval (m bgs)	Filter Pack Interval (m bgs)
CH-MW01	18.3	Till (Silt, sandy)	50	11.8 – 14.8	11.2 -14.8
CH-MW02	16.5	Till (Silt with some sand)	50	9.7 – 14.3	9.1 -14.3
CH-MW03	15.2	Till (Sand, some silt)	50	9.7-14.3	9.1-14.3
CH-MW04	16.8	Till (Silt)	50	12.2 -16.8	11.6 -16.8

* Drilling depth may be deeper than depth of installation due to caving sediments

3.2.3 Monitoring Well Surveying

EBA surveyed the vertical elevation of the top of the well PVC standpipe at each of the well locations on October 26, 2010. Elevations were surveyed relative to a local benchmark assigned an elevation of 100 m. The monitoring wells were not surveyed for location, although the location of each well was recorded using a hand held GPS device. As the GPS locations obtained have an error of 10 – 15 m associated with them, it is recommended by EBA that all wells are surveyed for location and elevation by a professional surveyor prior to the next monitoring round. This will allow the wells to be geo-referenced and more accurate site plans to be prepared aiding future planning and assessment works.

Table 3-3 presents GPS locations, survey data and water level measurements for each monitoring well.

Table 3-3: Well Survey and Water Level Data

Well ID	GPS Location (UTM NAD83, Zone 8) ¹	Top of PVC Casing Elevation (m) ²	Standing Water Level (m b TOC) 11/09/2010	Groundwater Elevation (m) 11/09/2010
CH-MW01	0420588N 6740298E	100.321	14.02	86.301
CH-MW02	0420525N 6740222E	97.792	11.545	86.247
CH-MW-03	0420536N 6740274E	98.734	12.44	86.294
CH-MW-04	0420586N 670185E	99.488	13.20	86.288

¹GPS locations may include an error of up to 10 – 15 m

²Elevation relative to arbitrary local benchmark of 100 m.

3.2.4 Groundwater Monitoring Event

Groundwater monitoring wells CH-MW01, CH-MW02, CH-MW03 and CH-MW04 were sampled by EBA on November 09, 2010 using methods in accordance with Contaminated Sites Regulation Protocol No. 7: Groundwater Monitoring Well Installation and Sampling (YCSR, 2008). Wells were sampled approximately two weeks after the completion of drilling, installation and development, allowing sufficient recovery of the water levels, and to allow for the groundwater in the monitoring wells to reach equilibrium with the aquifer.

Prior to sampling, the standing water level (SWL) was measured in each well, using an electric measuring tape. Each well was purged by removing three well volumes using a dedicated disposal bailer prior to a sample being obtained. During purging, physicochemical parameters (pH, temperature, EC and DO) were measured and recorded. Groundwater Purge and Sampling Field Sheets are presented in Appendix E.

Each sample bottle was labeled with the location ID, project number and date. Sample containers and appropriate preservatives for each suite of tests were provided by the primary laboratory. Samples for dissolved metals analysis were field filtered using new, clean 0.45 µm filters and preserved with nitric acid. All samples were stored in coolers containing ice-bricks and delivered to the analytical laboratories (Exova and Maxxam) under Chain of Custody and within appropriate holding times. Both laboratories are certified by the Canadian Association for Laboratory Accreditation and are accredited as conforming to ISO/IEC 17025 for analysis.

3.2.5 Rising Head Hydraulic Response Tests

Rising head tests were undertaken at each monitoring well to estimate the hydraulic conductivity of the aquifer at the specific well location. The rising head test was performed by quickly removing 1 liters of water from the well using 50.8 mm diameter dedicated polyethylene bailers. The recovery response in the well was then monitored closely using the water level sounder until the water level had recovered to at least 80% of its static water level. In addition to the manual data, a Solinst Levelogger® was deployed in the well to automatically record the water level data at one second intervals.

3.3 LABORATORY TESTING

The laboratory testing completed for the submitted groundwater samples collected on November 9, 2010 is summarized in Table 3-4. This analysis list is in general compliance with the requirements of the Site's Waste Disposal Facility Permit (Permit No 80-009) although samples obtained for analysis of PAH, HEPH and LEPHw in CH-MW04 were not analyzed due to container breakage during shipping.

Sampling and analysis of groundwater samples was undertaken in general accordance with Yukon Contaminated Site Regulation Protocols 2 and 5 (YCSR, 2007, 2008).

Table 3-4: Laboratory Testing Program – November 2010

Sample ID	Ca, Mg, Na, K, Cl, SO ₄ , NO ₃ , NO ₂ , PO ₄	Dissolved Metals, Hg, Hardness	Alkalinity, CO ₃ , HCO ₃ , pH, TDS, NH ₃ , DOC	VOCs, COD, TKN, VHw6-10, BTEX,	PAHs, EPHw10-19
CH-MW01	✓	✓	✓	✓	✓
CH-MW02	✓	✓	✓	✓	✓
CH-MW03	✓	✓	✓	✓	✓
CH-MW04	✓	✓	✓	✓	X ¹

¹ Sample was not analyzed for PAHs, HEPh and LEPHw due to breakage during shipping.

3.4 QUALITY CONTROL/QUALITY ASSURANCE

This section describes the Quality Assurance (QA) and Quality Control (QC) procedures undertaken to ensure sample integrity and representativeness, and the reliability and accuracy of analysis results.

A Relative Percent Difference (RPD) data validation spreadsheet is provided in Table 2. Data validation is summarized in Table 3-5.

Table 3-5: Review of Sample QA/QC

QA/QC Aspect	Evidence and Evaluation
Data Representativeness	
Sample integrity	All samples were received by the laboratory within appropriate holding times.
Background Samples	CH-MW01 is considered to be hydraulically up gradient of the Site and the groundwater samples from this location can be considered to be representative of background conditions.
Field Procedures	Monitoring wells were developed and sampled using dedicated hand bailers. All equipment that was used in multiple wells was decontaminated using a three stage wash procedure (detergent, tap water, distilled water).
Calibration of Field Equipment	Calibration of field equipment was undertaken prior to each day of field work.

Table 3-5: Review of Sample QA/QC

QA/QC Aspect	Evidence and Evaluation
Data Precision and Accuracy	
Blind Duplicates	<p>One blind duplicate sample was collected from CH-MW03 during the November 2010 groundwater monitoring event.</p> <p>Of the 40 analyte pairs tested, RPD values could not be calculated for 12 pairs as either one or both values were below the laboratory method detection limit (MDL). Of the remaining analyte pairs tested, 2 analytes (Aluminum and Titanium) exceeded the RPD acceptance criteria of +/-30%. These exceedences are considered to be generally minor and related to the poor reproducibility of the analytical methods at low analyte concentrations.</p> <p>RPD calculations are presented in Table 2.</p>
Split Duplicates	<p>One split duplicate sample was collected from CH-MW03 during the November 2010 groundwater monitoring event and sent to Maxxam Laboratories.</p> <p>Of the 38 analytes tested, RPD values could not be calculated for 17 pairs as either one or both values were below the laboratory MDL. Of the remaining analyte pairs tested, 4 analytes (aluminum, cadmium, iron and selenium) exceeded the RPD criteria of +/- 30%. These exceedences are considered to be generally minor and related to the poor reproducibility of the analytical methods at low analyte concentrations.</p> <p>RPD calculations are presented in Table 2.</p>
Trip Blanks	<p>One trip blank was collected during the November 2010 groundwater monitoring event and placed on hold at the laboratory. Following the receipt and interpretation of results it was not considered necessary to undertake any analysis on this sample.</p>
Laboratory Internal QA/QC	<p>Laboratory internal QA/QC is detailed within the primary and secondary laboratories reports (Appendix F). Overall, both labs showed acceptable testing frequency and results for method blanks, laboratory duplicates and matrix spikes.</p> <p>Maxxam (secondary laboratory) noted minor exceedences for a spike recovery for lithium. This is considered to be minor QC issues and does not impact the validity of the entire data set.</p>
Holding Times	<p>Holding times for samples were in conformance with applicable ASTM and laboratory requirements.</p>
Laboratory Detection Limit	<p>Laboratory reports indicate that the method detection limits were lower than the respective assessment criteria.</p>
Completeness of test program	<p>The scope of work undertaken was generally consistent with that required to characterize the Site and meet the study objective.</p>

Table 3-5: Review of Sample QA/QC

QA/QC Aspect	Evidence and Evaluation
Validity of Data Set	The data quality review indicates no significant systematic errors in the data collection or analysis process for groundwater and therefore, the data set used as the basis for the groundwater assessment is considered valid and complete.

3.5 Application of Applicable Water Quality Standards

The Yukon Contaminated Sites Regulation (YCSR) (*Environment Act*) provides standards for the assessment and remediation of contaminated sites in Yukon. The water quality standards applying to the assessment of groundwater contamination in Yukon are those specified in Schedule 3 of the YCSR. Protocol 6 of the Yukon Contaminated Sites Regulation describes the appropriate application of these standards.

The four types of water uses outlined in the YCSR, the relevant water quality standards and their applicability to the assessment are presented in Table 3-6.

Table 3-6: Applicable Water Quality Standards

Water Use	Applicable Water Quality Standard	Applicable Plume Radius (km)	Applicability to Assessment
Aquatic Life	Schedule 3 – Contaminated Sites Regulation (O.I.C. 2002/171)	1	Not Applicable
Drinking Water	Schedule 3 – Contaminated Sites Regulation (O.I.C. 2002/171)	1.5	Applicable
Irrigation	Schedule 3 – Contaminated Sites Regulation (O.I.C. 2002/171)	1.5	Applicable
Livestock	Schedule 3 – Contaminated Sites Regulation (O.I.C. 2002/171)	1.5	Not Applicable

The following presents an assessment of the applicability of each water use detailed above to this assessment.

Aquatic Life

Potential down-gradient Aquatic Life receptors have been identified as the Dezadeash River 1.6 km southwest of the Site. As this receptor is more than 1 km from the Site, this standard is **not applicable** to this assessment.

Drinking Water

Based on Google Earth images (2005), the nearest domestic developments to the Site are located in the Champagne community, which range in distance from 1 km to the west to around 2 km to the southwest of the Site. Since 2005, domestic development may have moved closer to the WDF.

A review of the Yukon Water Well Registry (2006) by EBA on January 25, 2010 shows one well in the Champagne area that could potentially be used for drinking water. It is noted that this database is not a complete record of all wells drilled in the region. A previous hydrogeological assessment report on the Champagne area (EBA, 2010) showed fourteen domestic water wells located within the Champagne community. None of the wells were identified as being used for domestic water supply at the time of the study (2010) however there is a possibility that some of the wells have been in use since.

Given the proximity of the local community and the potential for domestic water wells to be used within the applicable 1.5 km distance from the Site, it is considered that this water use standard is **applicable**.

Irrigation

The Yukon Water Well Registry compiled by the Department of the Environment was reviewed by EBA on January 25, 2010. The registry does not list any of the wells in the Champagne area as being used for irrigation use. It is noted that this database is not a complete record of all wells drilled and it is possible that there are irrigation wells in the local vicinity not captured on the registry.

Additional information gathered from a hydrogeological assessment report completed by EBA (EBA, 2010) on the Champagne area showed two of the fourteen domestic water wells located within the Champagne area as being used for irrigation purposes at the time of the study (2010). These wells are located approximately 1.4 km southwest from the landfill, indicating that this standard is **applicable**.

Livestock

The Yukon Water Well Registry compiled by the Department of the Environment was review by EBA on January 25, 2010. The registry does not list any wells in the Champagne area as being for Livestock use. It is noted that this database is not a complete record of all wells drilled and it is possible that there are Livestock wells in the local vicinity not captured on the registry.

A review of Google Earth images (2004) and an inspection of the Champagne area on July 3, 2010 did not identify farmland or livestock that would potentially require groundwater sourced from a well. Figure 5 shows that there are no areas within 1.5 km of the Site identified for Agricultural Use. Therefore, it is considered that there is very little likelihood of this water use being realized downgradient and the water use is considered **not applicable**.

4.0 CONCEPTUAL HYDROGEOLOGICAL MODEL

4.1 SETTING

The Site is located approximately 75 km west of Whitehorse, on the Champagne Access Road and 1.2 km east of the village of Champagne. The Site is roughly rectangular with a length of approximately 130 m and a width approximately 120 m. A site plan is presented in Figure 2.

On a regional scale, the land surrounding the Site is relatively flat, sloping west/southwest towards the Dezadeash River. Regional topographical elevation contours are shown on Figure 1. Locally, to the west between the Site and the Community of Champagne, there is a more dramatic change in elevation with a drop of over 40 m across a distance of around 250 m.

The Site is generally flat at an elevation of 728 m asl. A pit measuring approximately 60 m by 20 m has been excavated to around 2 m below ground level on the western side of the Site. All vegetation has been removed from the active disposal, burial and storage areas of the Site. The area surrounding the Site has a medium to heavy cover of native spruce, willow and poplar trees. Within the Site boundary there has been some disturbance of the natural land surface through the excavation of the burial waste trenches and the large pit excavated on the west of the Site.

4.2 CLIMATE

Climatic data is not recorded in the Champagne area. Data from Whitehorse airport (the closest weather station, 75 km east of Champagne), indicates 267 mm of annual precipitation with the majority of precipitation falling as rain between May and October. The average annual temperature at the Whitehorse airport is -0.7°C with the warmest average monthly temperature being July (14.1°C), and the coldest month generally being January with an average temperature of -17.7 °C (Environment Canada, Whitehorse Airport 1971 to 2000). From this information it can be concluded that groundwater recharge through surface water infiltration will be highest from May to October.

4.3 GEOLOGY AND HYDROGEOLOGY

4.3.1 Geological Framework

Figure 3 illustrates the regional surface geology (GSC, 1957). The southern Yukon, including the Champagne area, has undergone several episodes of glaciation, the most recent being the Quaternary McConnell glaciation.

The surficial materials at the Site are primarily of Pleistocene origin consisting predominantly of fine grained till and lacustrine silt of unknown thickness.

Underlying the overburden sediments at the Site is bedrock described as Coast intrusions, consisting of Mesozoic granodiorite, quartz diorite and granite. Bedrock to the north and south of the Site consists of Coast Intrusions and the Yukon group, Nasina series consisting of paragneiss, quartz-mica, amphibole and chlorite schists, quartzite, limestone, greenstone and slate (GSC, 1957).

During the retreat of the glaciers in the late Pleistocene, sediment in the form of till was deposited in areas such as the Champagne WDF. Throughout the retreat of the glaciers an extinct glacial lake called Glacial Lake Champagne formed in the Champagne area depositing some of lacustrine sediments observed.

Cross-section A-A', shown as Figure 4, illustrates the interpreted conceptual geological and hydrogeological model of the landfill area based on observed lithologies during the October 2010 drilling program. The conceptual model indicates the Site is underlain by thick till deposits with interlayered sand lenses.

To the west, in the Champagne Community, a review of the lithology encountered during the drilling of a water well (NW-1) (EBA, 2010) indicated the lithology was primarily sandy deposits with minor gravel. The deposits are inferred as most likely being fluvial deposits of the Dezadeash River where it has incised the till. The sand is considered to most likely overly the same till unit that was logged underlying the Site depending on overburden thickness and depth to bedrock.

4.3.2 Principal Aquifers

As shown in Figure 4, within the immediate site vicinity and towards the Champagne community, groundwater is considered to occur within the till unit and is interpreted to extend into the underlying bedrock. For the purpose of this report, these units have been collectively named the Till Aquifer and Bedrock Aquifer, for ease of reference. Beneath the community of Champagne, groundwater in the sand unit underlying the area has been named the Sand Aquifer. There may be other localized aquifers in the deposits beneath the Site and Champagne, dependant upon the lithological units and their degree of interconnectivity.

It is considered that the Till Aquifer possibly extends west to below the Champagne community, where it is overlain by the Sand Aquifer.

The principal aquifers in the local region between the Site and the Community of Champagne and their type are summarized in Table 4-1.

Table 4-1: Principal Aquifers

Aquifer Name	Location	Aquifer Type	Comment
Till Aquifer	<ul style="list-style-type: none"> Underlying the Site. Considered to possibly extend to the west below the Champagne Community 	Intergranular, porous media	<ul style="list-style-type: none"> Consists predominantly of silt Uppermost water bearing formation beneath the Site Unconfined, water table aquifer Underlies the Site
Sand Aquifer	<ul style="list-style-type: none"> Underlies the Champagne community 	Intergranular, porous media	<ul style="list-style-type: none"> Unconfined water table aquifer Considered to most likely be fluvial deposits. Based on drilling logs, inferred to possibly underlie the Champagne Community Inferred to possibly overlie the Till Aquifer
Bedrock Aquifer	<ul style="list-style-type: none"> Inferred to be underlying the Site. 	Fractured rock	<ul style="list-style-type: none"> No visible outcrops close to the Site Inferred to recharge the thick Quaternary deposits underlying the Site

4.4 GROUNDWATER FLOW SYSTEMS

Groundwater occurrence and flow can generally be described by a series of interconnected flow systems on a regional, intermediate and local scale with flow from areas of recharge to areas of discharge.

4.4.1 Regional and Intermediate Groundwater Flow

Figure 5 shows the Site to be located on the edge of the northeast catchment draining west towards the Dezadeash River and on the edge of the catchment draining east towards Takhini River. Consequently, on a regional scale groundwater flow is expected to be either in the west or east direction towards the Dezadeash River or Takhini River respectively.

On a regional scale, groundwater recharge to the aquifers in the sand and till deposits would be expected to be primarily through direct infiltration of surface water along with lateral and vertical inflow from the bedrock aquifer. Groundwater would be expected to flow towards and discharge at the major regional surface water features in the vicinity of the Site, the Dezadeash River to the west or towards the Takhini River to the east.

4.4.2 Local Groundwater Flow

Local groundwater flow in the vicinity of the Site is expected to be west to southwest towards the Dezadeash River, where groundwater is expected to discharge. There may be a component of vertical flow from deeper in the Sand and Till Aquifers towards the surface, particularly in the vicinity of the Dezadeash River. Increased infiltration of surface water is possible at the locations on the Site where open excavations are located and where waste has previously been deposited and covered. Groundwater in the Till Aquifer is anticipated to have a slower lateral flow towards the Dezadeash River than the Sand Aquifer due to decreased aquifer permeability.

Champagne, to the west/southwest of the Site, is at an elevation approximately 10 to 20 m below the groundwater elevation at the Site. There is the potential that groundwater that passes beneath the Site travels in a south/southwesterly direction through the Till Aquifer prior to moving into the Sand Aquifer to the west and discharging to the Dezadeash River.

4.4.3 Groundwater Elevations, Flow Direction, Gradient

Each groundwater monitoring well was completed with the screen installed across the interval where the moisture content of the formation appeared to be transitioning from wet to saturated. Groundwater elevations were measured in each monitoring well during the November 2010 sampling program. At each well the groundwater elevation, post completion, intersected the screened interval.

There were no definitively identified confining layers noted on the drill logs, although the drilling method (air rotary) was not conducive to noting thin potential confining layers.

EBA used the groundwater depth data from November 2010 and well survey elevation information from October 2010 to calculate the groundwater elevation at each monitoring well. The water level measurements and groundwater elevations as of November 9, 2010 are presented in Table 3-3. Figure 6 shows the groundwater elevations and inferred groundwater contours from November 9, 2010. Whilst the elevation contours indicate a steep hydraulic gradient on the southern side of the Site, it is noted that the

approximate 0.04 m elevation drop from CH-MW03 to CH-MW02 is over a distance of around 50 m. This drop is in line with potential local variations in elevations or alternatively may be due to small errors inherently associated with the survey and gauging of monitoring wells.

The groundwater elevation contours indicate flow in a southwesterly direction. Similar groundwater flow directions were concluded in a study of the Champagne area completed by EBA in 2010 (EBA, 2010). Such flow direction indicates that groundwater is moving towards the Dezadeash River southwest of the Site. This is consistent with the expected flow direction as well as the interpreted local groundwater flow direction discussed in Section 4.4.2. Using the data presented in Figure 6, the horizontal hydraulic gradient is approximately 0.00054 m/m towards the southwest.

4.5 RISING HEAD TEST RESULTS

EBA analyzed four rising head test results (one each for CH-MW01, CH-MW02, CH-MW03, CH-MW04) using Hvorslev (1951) and Bouwer & Rice (1976) analysis methods implemented in the AquiferTest™ (ver. 3.0) software.

The hydraulic conductivity testing results and the plots are attached in Appendix G.

The estimated hydraulic conductivities for each well using the two analysis methods are presented in Table 4-2.

Table 4-2: Estimated Hydraulic Conductivity

Monitoring Well ID	Hvorslev (m/s)	Bouwer & Rice (m/s)	Hydrogeological Unit	Geometric mean Hydraulic Conductivity
	Logger Data	Logger Data		
CH-MW01	2.03E-06	1.31E-06	Till (Silt, sandy)	1.2E-06
CH-MW02	7.34E-07	5.82E-07	Till (Silt with some sand)	
CH-MW03	5.02E-06	3.67E-06	Till (Sand, some silt)	
CH-MW04	6.1E-07	4.4E-07	Till (Silt)	

As shown in Table 4-2, the estimated hydraulic conductivity using the Hvorslev and Bouwer and Rice method ranged from 4.4×10^{-7} to 5.0×10^{-6} m/s, with a geometric mean of 1.2×10^{-6} m/s.

4.6 ESTIMATED AVERAGE LINEAR GROUNDWATER VELOCITY

As described above, the geometric mean hydraulic conductivity of the aquifer at the four locations measured is 1.2×10^{-6} m/s and the maximum hydraulic conductivity was 5.0×10^{-6} m/s. The observed hydraulic gradient across the property was approximately 0.00054 m/m towards the southwest. Linear groundwater velocity is calculated using the following equation:

$$V = (K i) / n$$

Where: V : is groundwater velocity in metres per second (m/s);

K : is hydraulic conductivity in meters per second (m/s) determined from the site specific slug tests;

i : is horizontal hydraulic gradient in meters/meter (m/m); and,

n : is porosity (%) estimated to be of 0.4 (Freeze & Cherry, 1979) in all on-site wells.

This results in an estimated average groundwater velocity of approximately 0.051 m per year and a maximum velocity of 0.21 m/year. However, groundwater downgradient of the Site may travel faster than that calculated depending upon the permeability of the material and the degree of interconnectivity between permeable units.

4.7 POTENTIAL FOR CONTAMINATION OF GROUNDWATER AND TRANSPORT MECHANISMS

The following identified potential sources of groundwater contamination are based on site history and inspection, anecdotal information and processes governing the generation and transport of leachate in landfills. Potential sources identified include:

- Leachate sourced from the former garbage disposal trenches and other decomposable matter present in construction materials, grubbing waste and other miscellaneous material (e.g. treated wood, plant matter). These contaminants include heavy metals, nutrients (NH_3 , NO_3), organic hydrocarbons (fuels, PAHs, chlorinated hydrocarbons) and salts;
- Petroleum hydrocarbons and other organic compounds from stockpiled vehicles;
- Leakage and spillage of hydrocarbons from onsite storage areas;
- Petroleum hydrocarbons and other unknown hydrocarbon contaminants disposed of in the underground water storage tank;
- While there is no specific information indicating military waste was deposited at the Site, the potential remains that the Site was used for this purpose;
- There were no off-site sources of pollution identified during the site inspection or the review of the site history which could be considered to have impacted upon the groundwater flowing beneath the Site, although there is the potential that unknown types military waste may have been disposed of upgradient of the Site;

The main pathways for the transport of contaminants from the sources identified above to groundwater and downgradient receptors are:

- Percolation of leachate from waste deposits and other identified contaminants through underlying soils to the Till Aquifer.
- Transport of contaminants within the Till Aquifer towards the Sand Aquifer and downgradient discharge locations.

5.0 GROUNDWATER IMPACT ASSESSMENT

5.1 REVIEW OF GROUNDWATER CHEMISTRY

One round of groundwater sampling was conducted as discussed in section 3.2.3. Copies of original laboratory reports and Chain of Custody documentation are included in Appendix F. Tabulated laboratory results are presented in Table 1. Table 5-1 summarizes some of the key water quality results from onsite monitoring wells along with water quality results from selected downgradient wells in the Champagne community for comparison.

Table 5-1: Key Groundwater Chemistry Results

Monitoring Well ID	TDS (mg/L)	Ammonia (mg/L)	Sulphate (mg/L)	HEPH (mg/L)	LEPHw (mg/L)	Dissolved Organic Carbon (mg/L)	Uranium (mg/L)
CH-MW01	312	<0.050	57.1	< 0.1	< 0.1	1.9	0.0242
CH-MW02	278	0.190	48	< 0.1	< 0.1	3.4	0.009
CH-MW03	288	0.100	65.4	<0.1	< 0.1	2.7	0.0101
CH-MW04	260	0.190	39.9	NR	NR	4.3	0.0099
CH-1*	202	NR	4.03	NR	NR	NR	0.0251
NW-1*	240	NR	10	NR	NR	NR	0.0327

NR - no result – sample bottle broken in transit

* Data from wells located in the Champagne community (EBA, 2010)

Table 5-2 details analytes which exceed the most stringent YCSR Schedule 3 criteria for each of the applicable Water Uses. Laboratory test results from groundwater samples collected during November 2010 have been used in assessing against criteria values. Table 1 presents all laboratory analytical results and compares all results against applicable guidelines.

Table 5-2: Groundwater Results Exceeding Most Stringent CSR Schedule 3 Criteria¹

Parameter	Guideline Value	Water Use	Well ID			
			CH-MW01	CH-MW02	CH-MW03	CH-MW04
Molybdenum	0.01	Irrigation Water	0.0339	0.0231	0.0209	0.021
Manganese	0.05	Drinking Water	0.192	0.12	0.307	0.211
Uranium	0.01	Irrigation Water	0.0242	NE	0.0102	NE

¹All results in mg/L NE – Guideline Value Not Exceeded

A discussion of key groundwater parameters that potentially indicate impact of the aquifer from the waste disposal facility and exceedences of relevant water quality guideline criteria are presented below. Data

from domestic water wells, of similar depths, in the Champagne area have been referenced for comparative purposes. The wells located in Champagne are considered to be down-gradient of the landfill, with no available information in the inferred upgradient (north) direction. The domestic water wells in Champagne are believed to be completed in the Sand Aquifer, as opposed to the wells at the Site that have been screened in the Till Aquifer.

Total Dissolved Solids

Total Dissolved Solids (TDS) can indicate groundwater contamination from a waste disposal facility, with dissolved constituents of the degradation of organic waste (typically NO₃, NH₃, Na, K, Mg, Ca, SO₄, Cl, HCO₃) contributing to an increase in TDS concentration. Concentrations of TDS at the Site ranged from 260 mg/L (CH-MW04) to 312 mg/L (CH-MW01). CH-MW01, which is inferred to be an upgradient well, reported a concentration slightly higher than downgradient well CH-MW04. TDS concentrations are considered to be low and relatively consistent across the Site, indicating that concentrations are typical of background groundwater conditions and have not been impacted by contamination sourced from the landfilling operations.

Ammonia

Ammonia is a typical constituent of landfill leachate and an indicator of contamination sourced from a landfill.

The concentrations of ammonia reported at all four wells were below the applicable guideline criteria. The concentration at the background well CH-MW01 (<0.05 mg/L) appears lower when compared to the down-gradient wells CH-MW02 (0.19 mg/L), CH-MW03 (0.1 mg/L) and CH-MW04 (0.19 mg/L). Elevated concentrations of ammonia in the down-gradient wells in comparison to the upgradient well indicate that concentrations in groundwater at these locations are possibly sourced from landfilling operations. Alternatively, the concentrations are relatively low and comparable to concentrations of ammonia considered to be background concentrations detected in the Haines Junction region, which is part of the same depositional unit.

Dissolved Organic Carbon

Dissolved Organic Carbon (DOC) concentrations can indicate organic matter sourced from a landfill impacting on groundwater. If a monitoring well is impacted by landfill leachate, DOC concentrations would be expected to show an increase to concentrations potentially in the hundreds or thousands of mg/L. DOC concentrations were consistent at each monitoring well, with concentrations ranging from 1.9 mg/L to 4.3 mg/L, indicating no impact from landfill leachate.

Sulphate

Sulphate concentrations in the four monitoring wells are below all applicable standards ranging from 65.4 mg/L (CH-MW03) to 39.9 mg/L (CH-MW04). Concentrations are approximately 2 to 4 times higher than the highest sulphate measurement reported from the Champagne community water wells. The difference in concentrations may be associated with onsite wells being screened in the Till Aquifer while the community wells are inferred as being screened in a sand unit.

Although concentrations of sulphate are higher than documented within the community water wells, the concentrations are consistent between all monitoring wells on site and there is no indication of impact from landfilling operations. Therefore, sulphate concentrations are considered to be representative of background conditions.

Metals

Most metals, including mercury, cadmium and arsenic reported relatively consistent concentrations across the Site.

Iron was reported above the laboratory MDL (0.005 mg/L) in all monitoring wells on site and did not exceed any of the applicable standards with concentrations ranging from 0.007 mg/L (CH-MW03) to 0.153 mg/L (CH-MW04).

Uranium was detected in all monitoring wells on site with concentrations exceeding the guideline criteria for the applicable water use of Irrigation in CH-MW01 (0.0242 mg/L) and CH-MW03 (0.0101 mg/L). The reported concentrations are considered to be naturally occurring, with uranium detected in similar concentrations in groundwater at each of the fourteen domestic water wells located within Champagne (EBA, 2010). In addition, similar uranium concentrations have been detected in other areas across the Yukon, such as Deep Creek, Haines Junction and Copper Ridge. Concentrations of uranium may be attributed to the element occurring naturally in intrusive granodiorite which underlies Till Aquifer, or it may be sourced from ground granodiorite in glacial deposits underlying the site. Therefore, concentrations are believed representative of background conditions at all wells and the applicable water uses are not precluded due to uranium sourced from the Site.

Manganese and Molybdenum were detected in all monitoring wells on site, with manganese exceeding both the aesthetic Drinking Water criteria for all wells and Irrigation Water criteria for CH-MW03 and CH-MW04. Molybdenum exceeded the Irrigation Water criteria for all wells. Manganese and molybdenum appear to be elevated when compared to groundwater values found in the Champagne community water wells. This difference in concentrations may be associated with onsite wells being screened in the Till Aquifer while the community wells are screened in a sand unit. Onsite, concentrations of both manganese and molybdenum do not appear to be higher in inferred down-gradient wells than upgradient wells and are relatively consistent across the Site. Therefore, concentrations are believed representative of background conditions at all wells and the applicable water uses are not precluded due to manganese or molybdenum sourced from the Site.

Organics

All organics results were reported at concentrations below the laboratory MDL and below all applicable water use criteria for all wells analyzed.

5.2 INTERPRETATION OF GROUNDWATER CHEMISTRY

A comparison of groundwater chemistry for major ions for each well is displayed in the Schoeller Plot (Figure 7) and Piper Diagram (Figure 8). Stiff Diagrams provide a plot of major ions that can be easily interpreted in terms of relative percentages of cations and anions. Stiff Diagrams for each of the sample

locations are presented in plan format as Figure 9, as an aid to interpretation of the spatial distribution of groundwater chemistry.

Groundwater from all monitoring wells at the Site can be characterized as calcium-magnesium-bicarbonate-sulphate type waters as indicated by the Piper Plot and Stiff diagrams. Figures 7, 8 and 9 indicate that the four wells all have almost identical chemical composition, indicating no observable impact on downgradient wells from landfilling operations.

Whilst ammonia and sulphate, indicators of landfill leachate impact, were detected in downgradient monitoring wells, the low and consistent concentrations reported, along with these analytes typically being detected in till aquifers in the region indicates they are representative of background conditions.

Heavy metals concentrations, including those exceeding standards, in all monitoring wells are considered to be representative of background conditions given the consistent concentrations reported across the Site.

All organics results were below laboratory MDLs indicating no impact to groundwater from organic contaminants either disposed of or stockpiled on the Site.

6.0 CONCLUSIONS

The field work for the 2010 Monitoring Well Program at the Champagne Waste Disposal Facility was completed between October 19, 2010 and November 9, 2010. The current water sampling network includes four groundwater monitoring wells.

The following conclusions are made based on the findings of the 2011 hydrogeological assessment:

- Four monitoring wells CH-MW01, CH-MW02, CH-MW03 and CH-MW04 were installed in October 2010 in areas north, south and east of the waste disposal facility to establish a groundwater monitoring network at the Site. All monitoring wells were completed in till with a slotted section at the well bottom to allow groundwater entry;
- Based on groundwater elevation data, monitoring wells CH-MW02 and CH-MW03 appear to be down-gradient of the Site, CH-MW04 is down/cross gradient of the Site and CH-MW01 up-gradient; however, additional groundwater elevation data are necessary to identify potential seasonal changes and confirm the conceptual hydrogeological model;
- No monitoring or sampling of groundwater is believed to have been conducted at the Site prior to the fall 2010 field program;
- The conceptual hydrogeological model indicates that groundwater flow downgradient of the Site is expected to be predominately to the southwest towards the Community of Champagne and the Dezadeash River.
- Analysis of the rising head hydraulic response test results show that the geometric mean hydraulic conductivity of the till is 1.2×10^{-6} m/s and the maximum hydraulic conductivity calculated is 5.0×10^{-6} m/s in CH-MW03;
- Groundwater from all monitoring wells on site can be characterized as calcium-magnesium-bicarbonate-sulphate type waters groundwater;

- Concentrations of manganese in all monitoring wells exceeded the CSR-Drinking Water (aesthetic) criteria and exceeded the CSR-Irrigation Water standards at CH-MW03 and CH-MW04;
- The concentration of molybdenum in all monitoring wells exceeded the CSR- Irrigation Water standards;
- Concentrations of uranium at monitoring well CH-MW01 and CH-MW03 exceeded the CSR-Irrigation Water standard;
- All other analytes were below the applicable guideline criteria;
- All organics results reported concentrations below the laboratory MDL;
- An underground water storage tank located west of the domestic garbage burial trench contains an unknown volume of waste oil and potentially other contaminants and poses a potential contamination risk to groundwater;
- Concentrations of ammonia and sulphate, both indicators of leachate contamination, are considered to be representative of background conditions given the consistent and low concentrations reported in all wells on site. This conclusion is supported by the low DOC concentrations and almost identical geochemistry exhibited in all wells, which indicates no impact from landfill leachate.

7.0 RECOMMENDATIONS

The following recommendations are made based on the findings of the 2010 hydrogeological assessment:

- As required by the Site's Waste Disposal Facility Permit, future monitoring programs should be completed once during the spring freshet when the most significant groundwater recharge occurs and once in late summer;
- The liquid within the underground storage tank should be sampled and analyzed prior to being disposed of appropriately. Following the removal of the liquid currently in the tank, a pressure test should be conducted to assess the potential for leakage to the subsurface. The tank should also be locked as soon as possible to prevent unauthorized access and disposal of unauthorized material;
- CH-MW01, CH-MW02, CH-MW03 and CH-MW04 should be surveyed by a professional surveyor for location and elevation prior to the next monitoring round. Elevations from the top of the PVC casing and from ground level immediately adjacent to the well should be reported;
- Following the survey of the monitoring wells and the next two rounds of sampling in 2011, data should be reviewed by a qualified hydrogeologist and the need for additional up-gradient and down-gradient monitoring wells assessed.

8.0 CLOSURE

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

Sincerely,
EBA, A Tetra Tech Company



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TABLES

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|---------|--------------------------------|
| Table 1 | Groundwater Analytical Results |
| Table 2 | Groundwater Duplicate RPD'S |

Table I

Groundwater Analytical Results

W23101317.007 | April 2011

Issued For Use

LocCode	CH - MW01	CH - MW02	CH - MW03	CH - MW03	DUPPLICATE CH-MW03	CH - MW04
Field_ID	CH - MW01	CH - MW02	CH - MW03	Duplicate CH - MW03	DUPPLICATE CH-MW03	CH - MW04
SampleCode	773805-1	773805-2	773805-3	773805-5	B0B0179_2010/11/10.D DUPLICATE CH-MW03	773805-4
Sampled Date-Time	11/9/2010	11/9/2010	11/9/2010	11/9/2010	11/9/2010	11/9/2010
Lab_Report_Number	1385519	1385519	1385519	1385519	B0B0179	1385519
Chem_Group	ChemName	Units	EQL	CSR Schedule 3 - DW	CSR Schedule 3 - IW	
	Dissolved Organic Carbon	mg/L	0.5		1.9	3.4
	tellurium	µg/L	0.1		<0.1	<0.1
BTEX	Benzene	µg/L	0.4	5	<1	<1
	Ethylbenzene	µg/L	0.4	2.4 ^{#13}	<1	<1
	Toluene	µg/L	0.4	24 ^{#13}	<1	<1
	Xylene (m & p)	µg/L	0.4		<1	<1
	Xylene (o)	µg/L	0.4		<1	<1
	Xylene Total	µg/L	0.4	300 ^{#13}	<1	<1
Chlorinated Hydrocarbons	1,1,1-trichloroethane	µg/L	1		<1	<1
	1,1,2,2-tetrachloroethane	µg/L	1		<1	<1
	1,1-dichloroethane	µg/L	1		<1	<1
	1,1-dichloroethene	µg/L	1	14	<1	<1
	1,2-dichloroethane	µg/L	1	5	<1	<1
	1,2-Dichloroethene [cis]	µg/L	0.001		<0.001	<0.001
	1,2-Dichloroethene [trans]	µg/L	0.001		<0.001	<0.001
	1,2-dichloropropane	µg/L	1		<1	<1
	Bromodichloromethane	µg/L	1		<1	<1
	Bromoform	µg/L	1		<1	<1
	Carbon tetrachloride	µg/L	1	5	<1	<1
	Chlorodibromomethane	µg/L	1		<1	<1
	Chloroethane	µg/L	10		<10	<10
	Chloroform	µg/L	1	100	<1	<1
	Chloromethane	µg/L	10		<10	<10
	cis-1,2-dichloroethene	µg/L	1		<1	<1
	cis-1,3-dichloropropene	µg/L	1		<1	<1
	Dichlormethane	µg/L	5	50	<5	<5
	Trichloroethene	µg/L	1	50	<1	<1
	Tetrachloroethene	µg/L	1	30	<1	<1
	trans-1,2-dichloroethene	µg/L	1		<1	<1
	trans-1,3-dichloropropene	µg/L	1		<1	<1
	Vinyl chloride	µg/L	2	2	<2	<2
Halogenated Benzenes	1,2-dichlorobenzene	µg/L	1	3 ^{#13}	<1	<1
	1,3-dichlorobenzene	µg/L	1		<1	<1
	1,4-dichlorobenzene	µg/L	1	1 ^{#13}	<1	<1
	Chlorobenzene	µg/L	1	30 ^{#13}	<1	<1
Halogenated Hydrocarbons	Bromomethane	µg/L	10		<10	<10
	Trichlorofluoromethane	µg/L	1		<1	<1
Inorganics	ORTHOPHOSPHATE (PO4-P)	mg/L	0.01		0.06	0.06
	Alkalinity (Bicarbonate)	mg/L	5		260	200
	Alkalinity (Hydroxide) as CaCO3	µg/L	5000		<5,000	<5,000
	Alkalinity (total) as CaCO3	mg/L	5		215	165
	Ammonia as N	µg/L	5		<50	190
	Bicarbonate	mg/L	5		260	200
	Carbonate	mg/L	6		<6	<6
	Chloride	mg/L	0.02	250 ^{#13}	2.71	2.24
	Hydroxide	µg/L	5000		<5,000	<5,000
	Kjeldahl Nitrogen Total	mg/L	0.06		1.9	2.5
	Nitrate (as N)	mg/L	0.01	10 ^{#1}	<0.01	<0.01
	Nitrate (as NO3-)	mg/L	0.02		-	-
	Nitrite (as N)	mg/L	0.005	3.2	<0.005	<0.005
	Nitrite (as NO2-)	mg/L	0.005		-	-
	Nitrogen (Total Oxidised)	mg/L	0.01	10 ^{#1}	<0.01	<0.01
	Ortho phosphate (as P)	mg/L	0.01		0.06	0.06
	Sodium	mg/L	0.05	200 ^{#13}	14.4	8.2
	Sulphate	mg/L	0.05	500 ^{#13}	57.1	48
	Sulphur as S	mg/L	0.2		18.4	14.7
	TDS	mg/L	5		312	278
	Thorium	µg/L	0.4		<0.4	<0.4
	Hardness as CaCO3	mg/L	0.5		224	178
	Total Solids	µg/L	5000		312,000	278,000
Lead	Lead	mg/L	0.0001	0.01	<0.0001	<0.0001
	Styrene	µg/L	0.4		<1	<1
Metals	Aluminum	mg/L	0.003	0.2	0.019	0.066
	Antimony	mg/L	0.0002	0.006	0.0027	0.0022
	Arsenic	mg/L	0.0001	0.025	0.001	0.0033
	Barium	mg/L	0.001	1	0.045	0.062
	Beryllium	mg/L	0.00004		<0.00004	<0.00004
	Bismuth	mg/L	0.001		<0.001	<0.001
	Boron	mg/L	0.004	5	0.028	0.018
	Cadmium	mg/L	0.00001	0.005	0.00008	0.00005
	Calcium	mg/L	0.05		52.8	40.5
	Chromium (III+VI)	mg/L	0.0004	0.05	0.0005	0.0006
	Cobalt	mg/L	0.00002		0.00083	0.00047
	Copper	mg/L	0.0002	1 ^{#13}	<0.001	0.001

Table I
Groundwater Analytical Results

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Issued For Use

LocCode	CH - MW01	CH - MW02	CH - MW03	CH - MW03	DUPPLICATE CH-MW03	CH - MW04
Field_ID	CH - MW01	CH - MW02	CH - MW03	Duplicate CH - MW03	DUPPLICATE CH-MW03	CH - MW04
SampleCode	773805-1	773805-2	773805-3	773805-5	B0B0179_2010/11/10.D	773805-4
Sampled Date-Time	11/9/2010	11/9/2010	11/9/2010	11/9/2010	11/9/2010	11/9/2010
Lab_Report_Number	1385519	1385519	1385519	1385519	B0B0179	1385519
Chem_Group	ChemName	Units	EQL	CSR Schedule 3 - DW	CSR Schedule 3 - IW	
	Iron	mg/L	0.005	0.3 ^{#13}	5	0.008
	Lithium	mg/L	0.001		2.5	0.009
	Magnesium	mg/L	0.05	100 ^{#13}		22.5
	Manganese	mg/L	0.001	0.05 ^{#13}	0.2	0.192
	Mercury	mg/L	0.00001	0.001	<0.00001	<0.00001
	Molybdenum	mg/L	0.0001	0.25	0.01 ^{#7}	0.0339
	Nickel	mg/L	0.001		0.2	0.004
	Phosphorus	mg/L	0.01		0.01 - 13.8	0.03 - 29
	Potassium	mg/L	0.05			0.02 - 11.5
	Selenium	mg/L	0.0001	0.01	0.02 ^{#22}	0.0009
	Silicon	µg/L	50			4,300
	Silver	mg/L	0.00001		<0.00001	<0.00001
	Strontium	mg/L	0.001			0.3
	Thallium	mg/L	0.00001		<0.00001	<0.00001
	Tin	mg/L	0.0001		0.0003	0.0002
	Titanium	mg/L	0.0004		0.0007	0.011
	Uranium	µg/L	0.1	100	10	24.2
	Vanadium	mg/L	0.0001		0.1	0.0006
	Zinc	mg/L	0.001	5 ^{#13}	1 ^{#3}	0.003
	Zirconium	µg/L	0.1			0.6
Organic	Alkalinity (Carbonate)	mg/L	6		<6	<6
PAH	Acridine	mg/L	0.00005		<0.00005	<0.00005
	Quinoline	µg/L	3.4		<3.4	<3.4
PAH/Phenols	Acenaphthene	µg/L	0.1		<0.1	<0.1
	Acenaphthylene	µg/L	0.1		<0.1	<0.1
	Anthracene	µg/L	0.1		<0.1	<0.1
	Benz(a)anthracene	µg/L	0.01		<0.01	<0.01
	Benzo(a) pyrene	µg/L	0.01	0.01	<0.01	<0.01
	Benzo(b)fluoranthene	µg/L	0.01		<0.01	<0.01
	Benzo(g,h,i)perylene	µg/L	0.1		<0.1	<0.1
	Benzo(k)fluoranthene	µg/L	0.02		<0.02	<0.02
	Chrysene	µg/L	0.1		<0.1	<0.1
	Dibenz(a,h)anthracene	µg/L	0.01		<0.01	<0.01
	Fluoranthene	µg/L	0.1		<0.1	<0.1
	Fluorene	µg/L	0.1		<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.1		<0.1	<0.1
	Naphthalene	µg/L	0.1		<0.1	<0.1
	Phenanthrene	µg/L	0.1		<0.1	<0.1
	Pyrene	µg/L	0.02		<0.02	<0.02
Solvents	Methyl Tertiary Butyl Ether	mg/L	0.004		-	-
TPH	HEPH	µg/L	100		<100	<100
	LEPHw	µg/L	100		<100	<100
	VPH C6-C10	µg/L	50	15000 ^{#18}	15000	<50
	VPHw	µg/L	50		<50	<50
VOCs	2-Chloroethylvinyl ether	mg/L	0.001		<0.001	<0.001
	Trihalomethanes	mg/L			<0.004	<0.004

Comments

- #1 Where nitrate and nitrite are present, total nitrate plus nitrite-nitrogen should not exceed this value
- #2 Standard varies with type of livestock. Consult director for further advice.
- #3 Standard varies with soil pH. (lowest value used, exceedances should be checked)
- #4 Standard varies with pH, temperature and substance isomer. (lowest value used, exceedances should be checked)
- #5 Standard varies with pH and temperature (lowest value used, exceedances should be checked)
- #6 Standard varies with hardness (lowest value used, exceedances should be checked)
- #7 Standard varies with crop, soil drainage and Mo:Cu ratio (lowest value used, exceedances should be checked)
- #8 Standard varies with chlorine concentration (lowest value used, exceedances should be checked)
- #9 Standard varies depending on crop (lowest value used, exceedances should be checked)
- #10 Standard to protect legumes.
- #11 Standard to protect lactating dairy animals.
- #12 Standard to protect cereals, tame hays and pasture crops.
- #13 Standard to protect against taste and odour concerns.
- #14 Standard is specific for total chloramines.
- #15 Standard comes into effect January 1, 2002. Until that date applicable standard is 3 000 µg/L
- #16 Standard applies only if minimum 1:10 dilution available in receiving waterbody
- #17 Includes volatile petroleum hydrocarbons with the exception of benzene, toluene, ethylbenzene and xylenes
- #18 Includes volatile petroleum hydrocarbons, standards applicable at all sites regardless of water use
- #19 Includes light extractable petroleum hydrocarbons, standards applicable at all sites regardless of water use
- #20 Includes light extractable petroleum hydrocarbons with the exception of anecapthene, acridine, anthracene, fluorine, naphthalene and phenanthrene
- #21 54.9 ug/L to protect crops other than legumes. 67.5ug/L to protect legumes.
- #22 20 ug/L for continuous applications on crops, 50 ug/L for intermittent application on crops.
- #23 16 ug/L to protect all types of crops. 46 ug/L to protect cereal crops and hay. 93 ug/L to protect legumes
- #24 0.5 ug/L to protect crops other than cereals, tame hays and pasture. 3.3 ug/L to protect cereals, tame hays and pasture crops.
- #25 0.2 ug/L to protect crops other than cereals, tame hays and pasture. 0.6 ug/L to protect cereals, tame hays and pasture crops.

UField Duplicates (Water)			SDG	A200884	A200884	A200884	Interlab_D	
Filter: ALL			Field_ID	Duplicate	Duplicate	Duplicate	DUPPLICATE	
			CH - MW03	CH - MW03	RPD	CH - MW03	CH-MW03	RPD
Chem_Group	ChemName	Units	EQL					
	tellurium	µg/L	0.1	<0.1	<0.1	0		
Inorganics	Ammonia N	µg/l	10 (Primary): 5 (Interlab)				80.0	81.0
	Sodium	mg/l	0.1 (Primary): 0.05 (Interlab)	8.2	8.1	1	8.1	9.19
	Sulphur as S	mg/l	0.2 (Primary): 3 (Interlab)	20.0	20.2	1	20.2	24.0
	Thorium	µg/L	0.4	<0.4	<0.4	0		
	Hardness as CaCO ₃	mg/l	5 (Primary): 0.5 (Interlab)	208.0	208.0	0	208.0	218.0
Lead	Lead	mg/l	0.0001 (Primary): 0.0002 (Interlab)	<0.0001	<0.0001	0	<0.0001	<0.0002
Metals	Aluminium	mg/l	0.005 (Primary): 0.003 (Interlab)	0.02	0.008	86	0.008	0.005
	Antimony	mg/l	0.0002 (Primary): 0.0005 (Interlab)	0.0013	0.0011	17	0.0011	0.0009
	Arsenic	mg/l	0.0002 (Primary): 0.0001 (Interlab)	0.0012	0.0009	29	0.0009	0.001
	Barium	mg/l	0.001		0.063	2	0.062	0.062
	Beryllium	mg/l	0.00004 (Primary): 0.0001 (Interlab)	<0.0	<0.0	0	<0.0	<0.0001
	Bismuth	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001
	Boron	mg/l	0.004 (Primary): 0.05 (Interlab)	0.016	0.012	29	0.012	<0.05
	Cadmium	mg/l	0.00001		0.0	0	0.0	0.0001
	Calcium	mg/l	0.1 (Primary): 0.05 (Interlab)	51.1	50.9	0	50.9	52.3
	Chromium (III+VI)	mg/l	0.0004 (Primary): 0.001 (Interlab)	0.0006	0.0006	0	0.0006	<0.001
	Cobalt	mg/l	0.00002 (Primary): 0.0005 (Interlab)	0.0008	0.0008	6	0.0008	0.0007
	Copper	mg/l	0.001 (Primary): 0.002 (Interlab)	<0.001	<0.001	0	<0.001	0.002
	Iron	mg/l	0.01 (Primary): 0.005 (Interlab)	0.009	0.007	25	0.007	0.005
	Lithium	mg/l	0.001 (Primary): 0.005 (Interlab)	0.005	0.005	0	0.005	<0.005
	Magnesium	mg/l	0.1 (Primary): 0.05 (Interlab)	19.6	19.6	0	19.6	21.3
	Manganese	mg/l	0.005 (Primary): 0.001 (Interlab)	0.307	0.294	4	0.294	0.276
	Mercury	mg/l	0.00001 (Primary): 0.00002 (Interlab)	<0.0	<0.0	0	<0.0	<0.0
	Molybdenum	mg/l	0.0001 (Primary): 0.001 (Interlab)	0.0209	0.0206	1	0.0206	0.022
	Nickel	mg/l	0.001		0.005	0	0.005	0.004
	Phosphorus	mg/l	0.01		0.02	0		
	Potassium	mg/l	0.1 (Primary): 0.05 (Interlab)	5.7	5.6	2	5.6	5.76
	Selenium	mg/l	0.0006 (Primary): 0.0001 (Interlab)	0.0009	0.0009	0	0.0009	0.0017
	Silicon	µg/l	50 (Primary): 100 (Interlab)	4460.0	4470.0	0	4470.0	4800.0
	Silver	mg/l	0.00001 (Primary): 0.00002 (Interlab)	<0.0	<0.0	0	<0.0	<0.0
	Strontium	mg/l	0.001		0.323	0.319	1	0.319
	Thallium	mg/l	0.00001 (Primary): 0.00005 (Interlab)	0.0	0.0	0	0.0	<0.0001
	Tin	mg/l	0.0001 (Primary): 0.005 (Interlab)	<0.0001	<0.0001	0	<0.0001	<0.005
	Titanium	mg/l	0.0004 (Primary): 0.005 (Interlab)	0.0006	<0.0004	40	<0.0004	<0.005
	Uranium	µg/L	0.4 (Primary): 0.1 (Interlab)	10.1	10.2	1	10.2	11.0
	Vanadium	mg/l	0.0001 (Primary): 0.005 (Interlab)	0.0008	0.0008	0	0.0008	<0.005
	Zinc	mg/l	0.001 (Primary): 0.005 (Interlab)	0.001	0.001	0	0.001	<0.005
	Zirconium	µg/L	0.1 (Primary): 0.5 (Interlab)	0.5	0.4	22	0.4	<0.5
TPH	VPH C6-C10	µg/L	50 (Primary): 300 (Interlab)	<50.0	<50.0	0	<50.0	<300.0
	VPHw	µg/L	50 (Primary): 300 (Interlab)	<50.0	<50.0	0	<50.0	<300.0

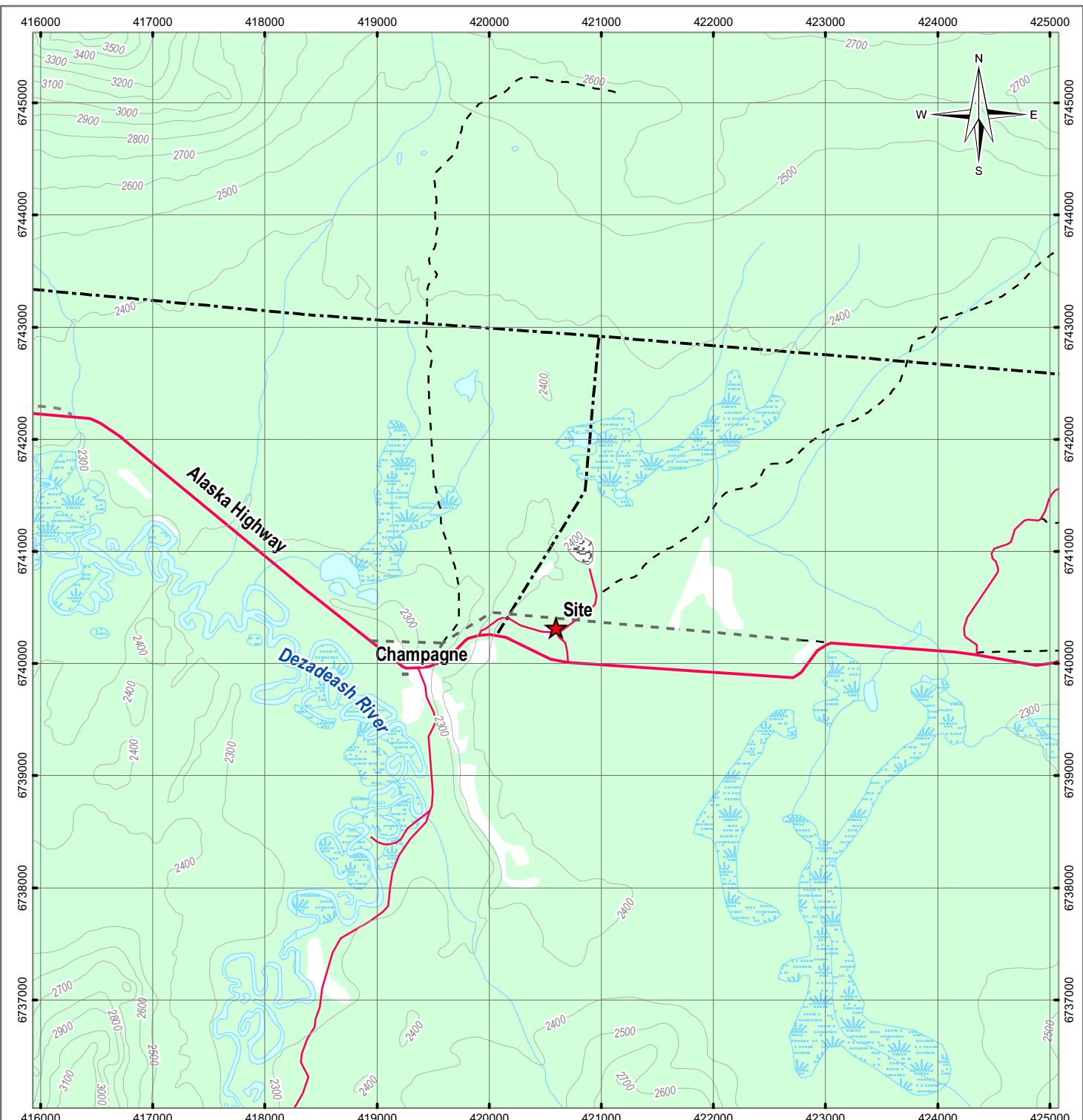
*RPDs have only been considered where a concentration is greater than 5 times the EQL.

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (5-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

FIGURES

-
- Figure 1 Site Location
 - Figure 2 Site Plan and Cross Section Alignment
 - Figure 3 Regional Geology
 - Figure 4 Conceptual Hydrogeological Cross Section A – A'
 - Figure 5 Regional Drainage and Land Zoning
 - Figure 6 Groundwater Elevation Contours (November 2010)
 - Figure 7 Schoeller Plot
 - Figure 8 Piper Diagram
 - Figure 9 Stiff Diagrams



LEGEND

- ★ Site Location
- Contour (100 ft)
- - - Transmission Line
- - Cut Line
- - Trail
- Limited Use Road
- Road
- Mining Area
- Building
- Watercourse
- Waterbody
- Wetland
- Vegetation

NOTES
Base data source:
NTS 1:50,000 (Sheets 115A15 & 115A16)

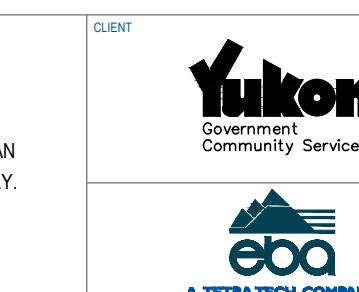
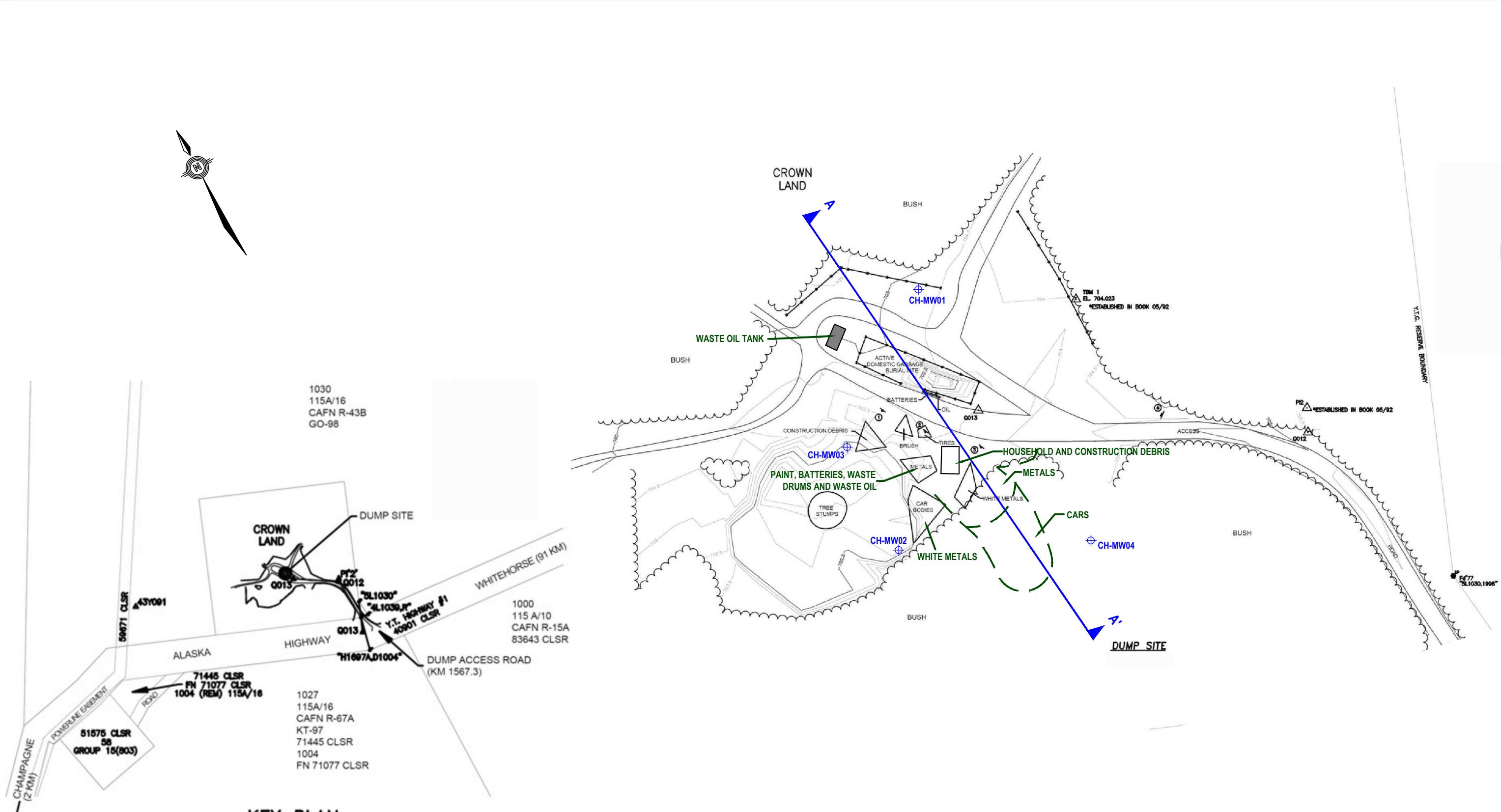
STATUS
ISSUED FOR USE

HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY

Site Location

PROJECTION	DATUM	CLIENT
UTM Zone 8	NAD83	
Scale: 1:50,000		
1	0.5	0
Kilometres		1
FILE NO.		
W23101317_007_Figure01_Champagne.mxd		A TETRA TECH COMPANY
PROJECT NO.	DWN SL	CKD CB
W23101317.007	0	APVD CB
OFFICE	REV 0	
EBA-VANC	DATE	March 24, 2011

Figure 1

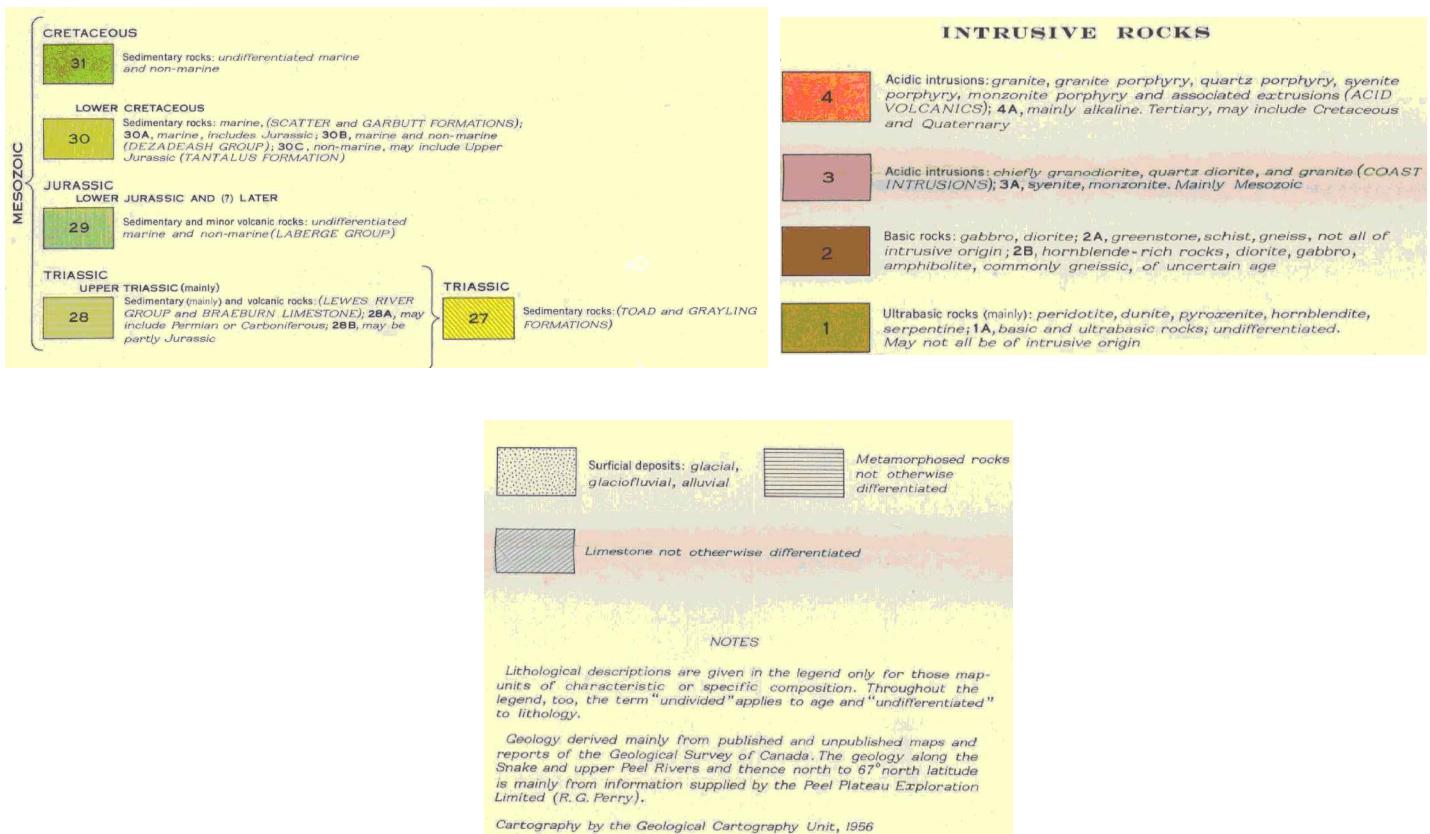
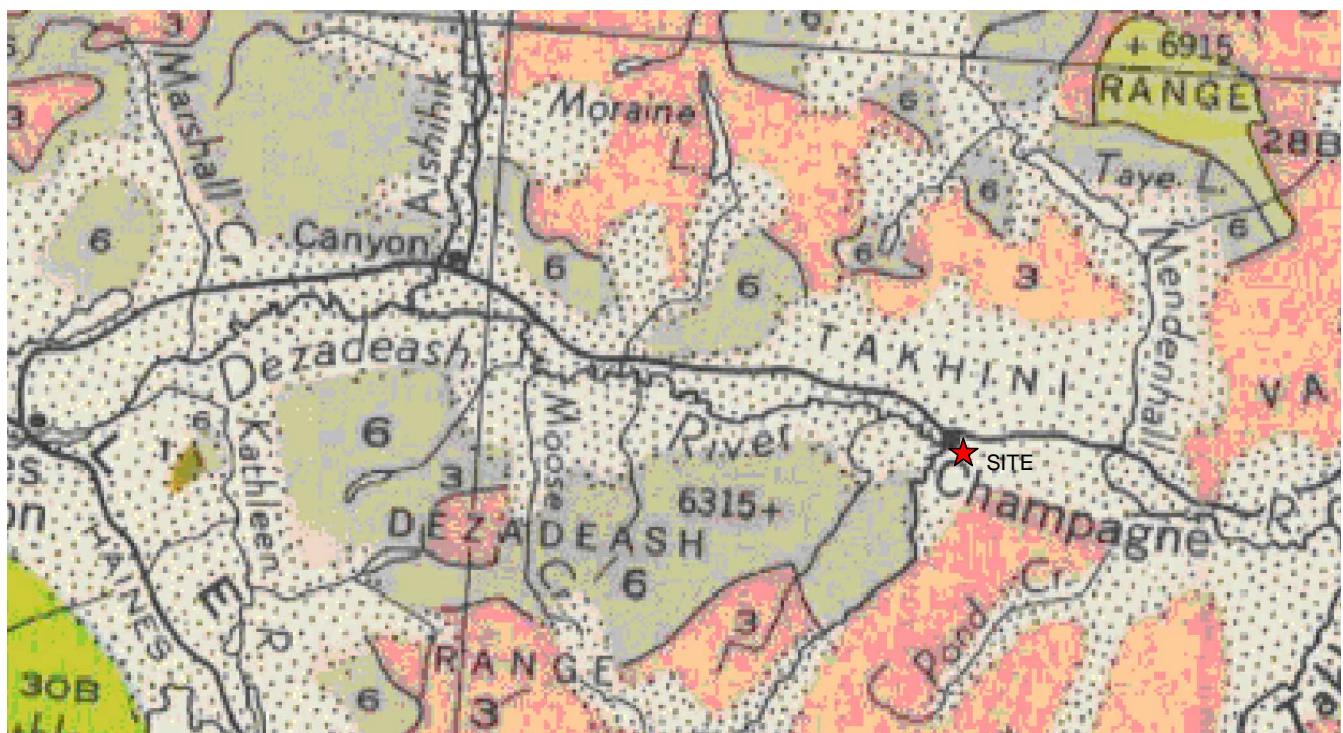


HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY

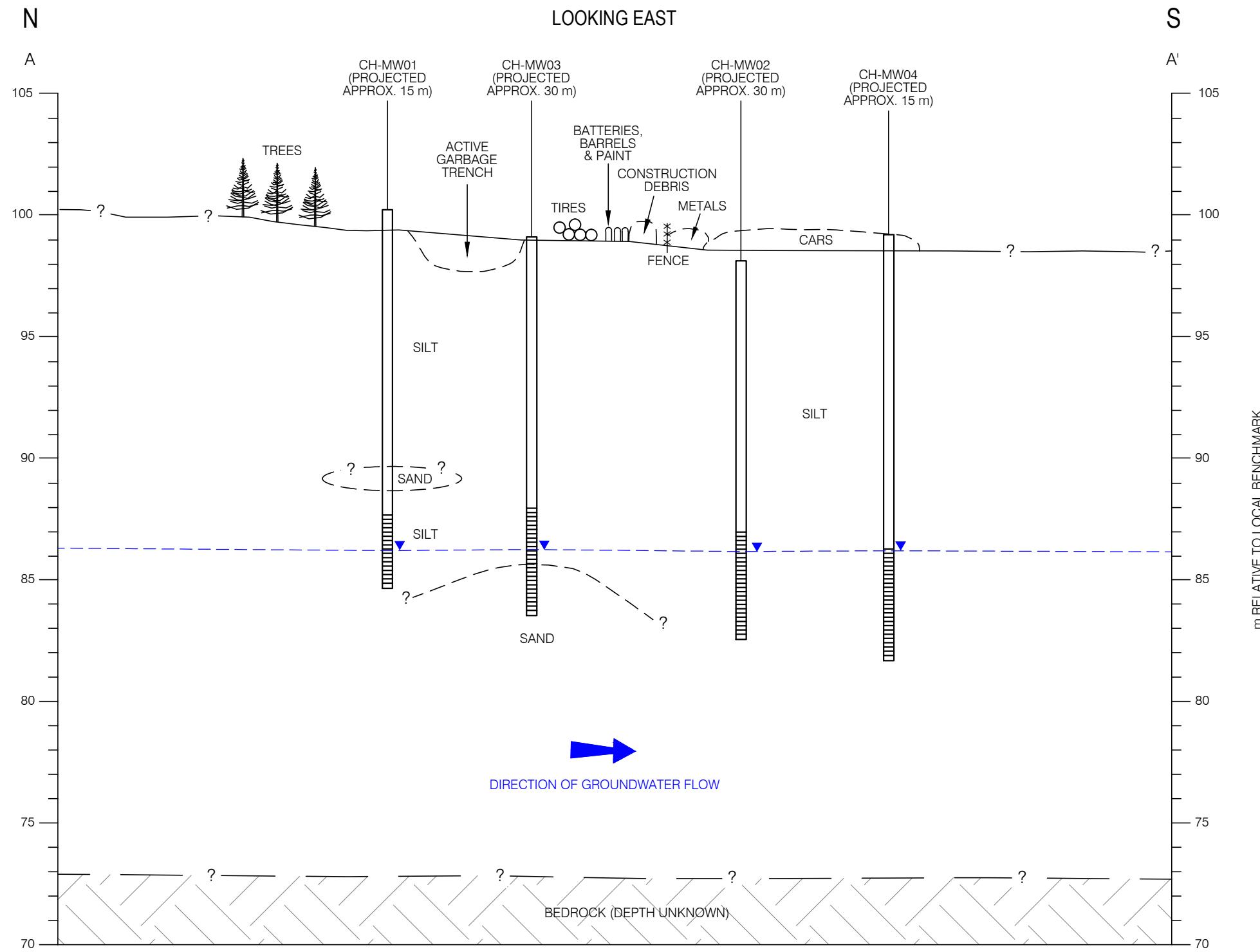
SITE PLAN AND CROSS-SECTION ALIGNMENT

PROJECT NO. W23101317.007	DWN CB	CKD AJS	REV 0
OFFICE EBA-WHSE	DATE February 23, 2011		

Figure 2



LEGEND	CLIENT	HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY			
★ - APPROXIMATE SITE LOCATION	Yukon Government Department of Community Services	REGIONAL GEOLOGY			
	eba A TETRA TECH COMPANY	PROJECT NO. W23101317.007	DWN CB	CKD AJS	REV 0
		OFFICE EBA-WHSE	DATE February 23, 2011	Figure 3	

**LEGEND**

- MONITORING WELL
- GROUNDWATER TABLE

NOTE : THIS PLAN IS NOT TO SCALE

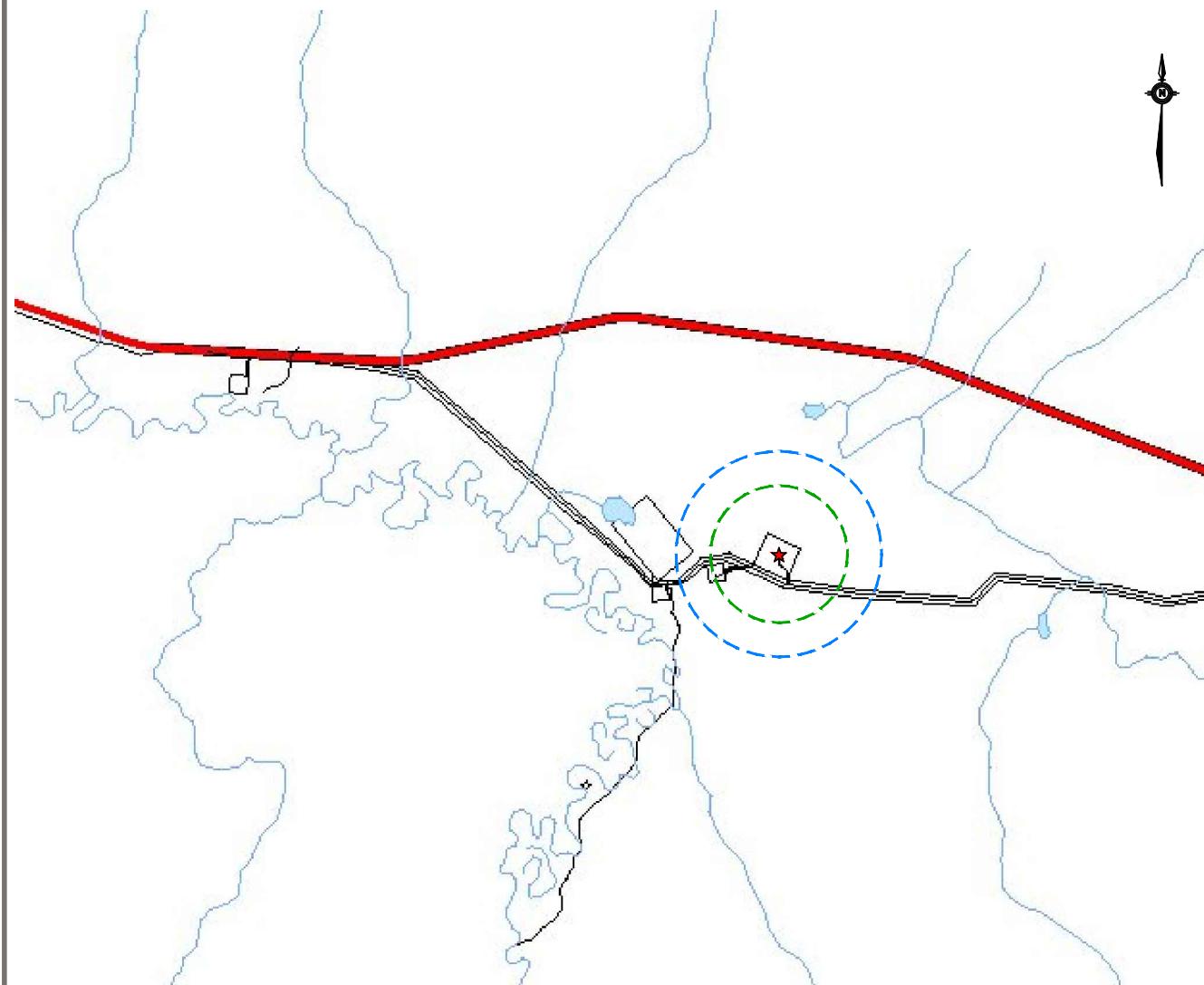


HYDROGEOLOGICAL ASSESSMENT
CHAMPAGNE WASTE DISPOSAL FACILITY

CONCEPTUAL HYDROGEOLOGICAL
CROSS SECTION A - A'

PROJECT NO. W23101317.007	DWN CB	CKD AJS	REV 0
OFFICE EBA-WHSE	DATE February 23, 2011		

Figure 4



Legend

National Road Network - All Roads

- Expressway / Highway
- Arterial
- Collector
- Ramp
- Resource / Recreation
- Local / Street
- Local / Strata
- Local / Unknown
- Alley or Service Lane
- Service Lane
- Winter
- Surveyed Land Parcels
- Agricultural Disposition (CSW)
- Agricultural Application (CSW)

NOTE : THE IMAGE USED IN THIS PLAN WAS RECEIVED FROM YUKON GOVERNMENT DEPARTMENT OF ENERGY, MINES AND RESOURCES

LEGEND

★ - APPROXIMATE SITE LOCATION

- REGIONAL DRAINAGE LINES

○ - CSR AQUATIC LIFE APPLICABLE RADIUS (1.0 km)

○ - CSR DRINKING, IRRIGATION AND LIVESTOCK WATER USE APPLICABLE RADIUS (1.5 km)

0 5000
Scale: 1: 100 000 (metres)

CLIENT

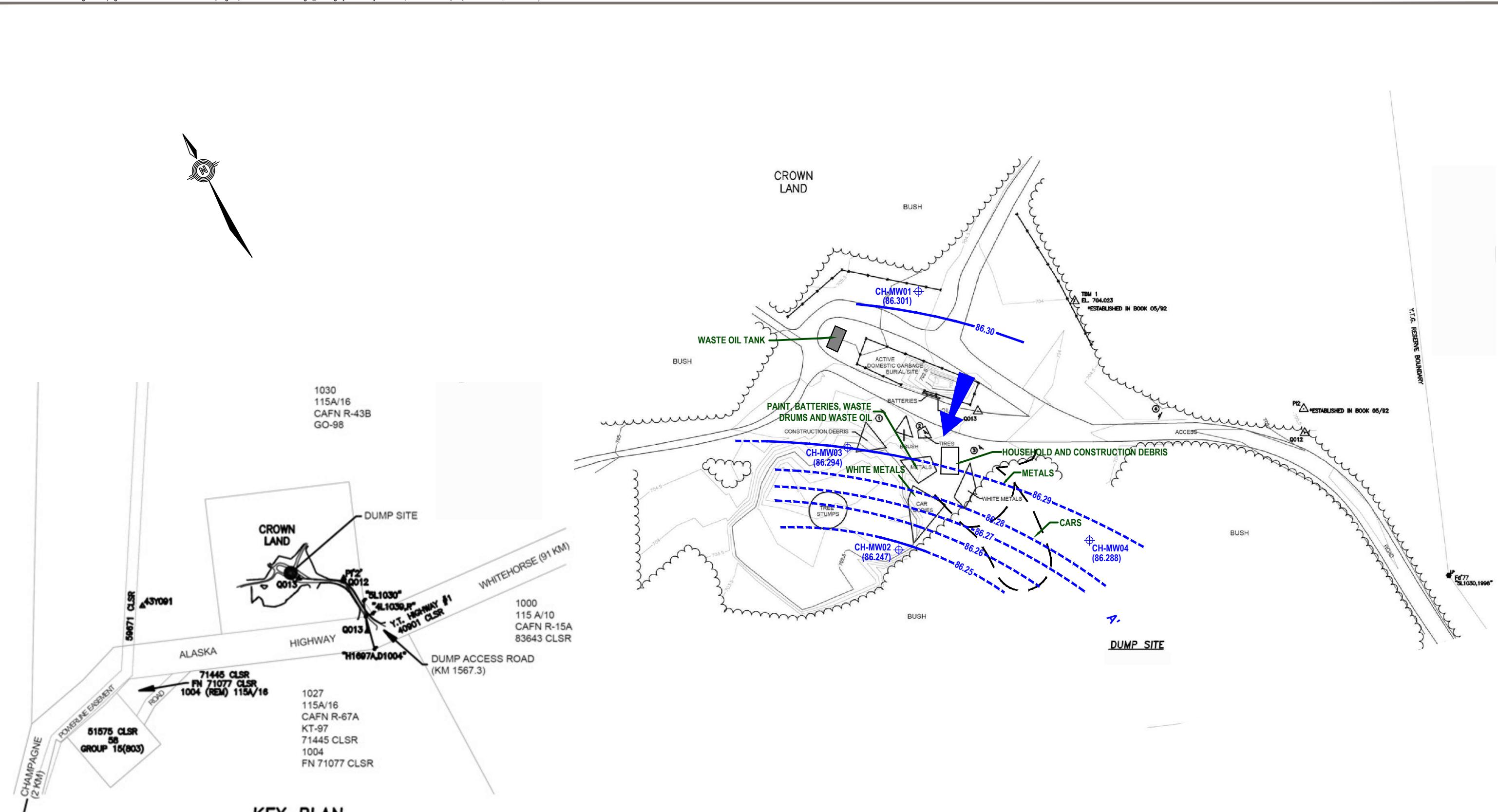


HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY

REGIONAL DRAINAGE AND LAND ZONING

PROJECT NO.	DWN	CKD	REV
W23101317.007	CB	AJS	0
OFFICE	DATE		
eBA-WHSE	February 23, 2011		

Figure 5



KEY PLAN

LEGEND

- GROUNDWATER MONITORING WELL
- (86.301) - GROUNDWATER ELEVATION - NOVEMBER 2010 (m RELATIVE TO LOCAL BENCHMARK)
- 86.25 — INFERRED GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION

NOTE

1. THIS PLAN IS NOT TO SCALE
 2. THE INFORMATION CONTAINED ON THIS PLAN WAS TAKEN FROM CHAMPAGNE SOLID WASTE MANAGEMENT PLAN PREPARED BY ACCESS CONSULTING GROUP IN JULY 2002 AND PRESENTED FOR INFORMATION PURPOSES ONLY. ALL ADDITIONAL INFORMATION WAS ADDED BY EBA AND IS SHOWN IN COLOR.

100



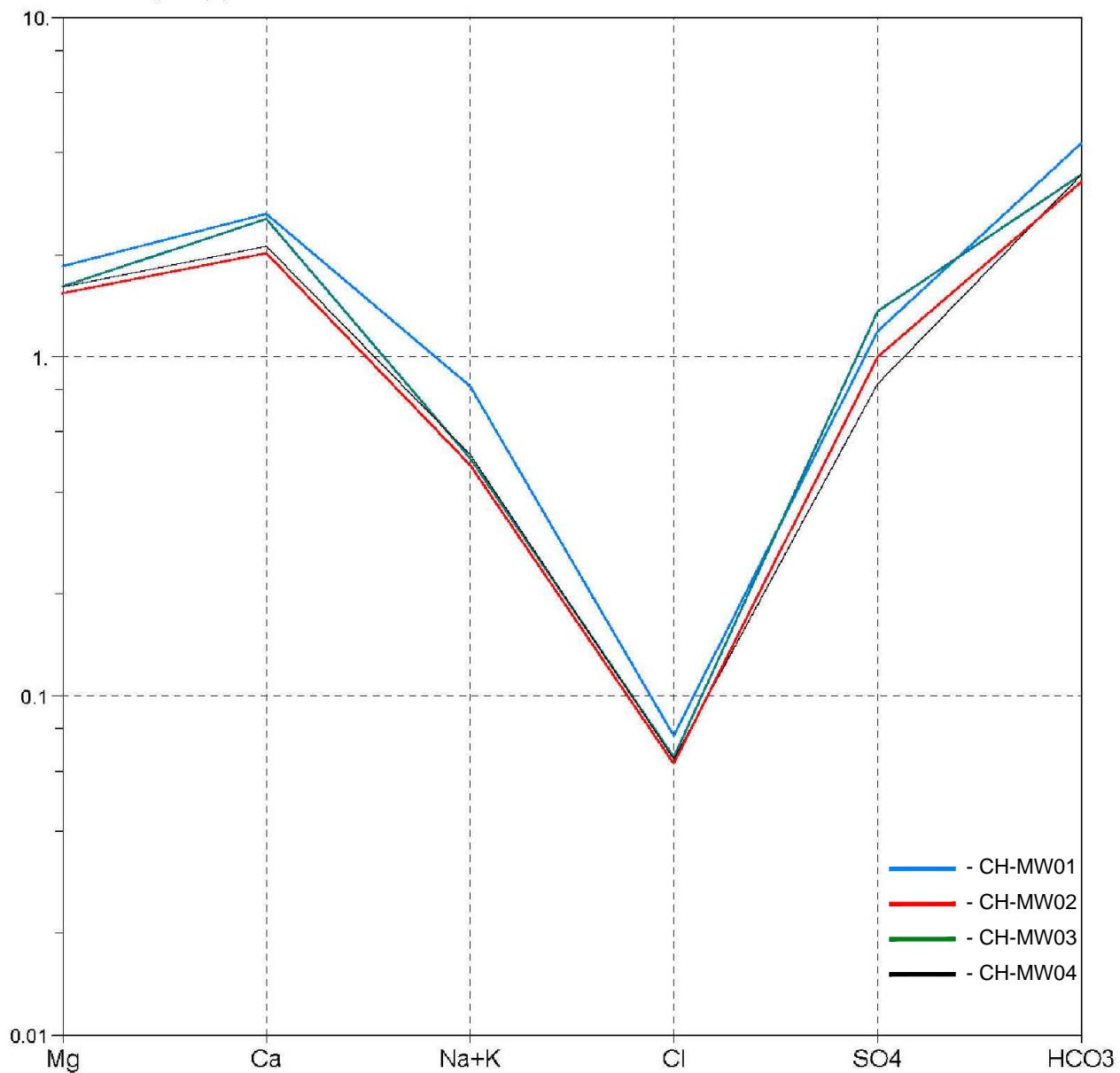
HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY

GROUNDWATER ELEVATION CONTOURS (NOVEMBER 2010)

ECT NO. 101317.007	DWN CB	CKD AJS
CE WHSE	DATE February 23, 2011	

Figure 6

Concentration (meq/l)



LEGEND

- CH-MW01
- CH-MW02
- CH-MW03
- CH-MW04

CLIENT

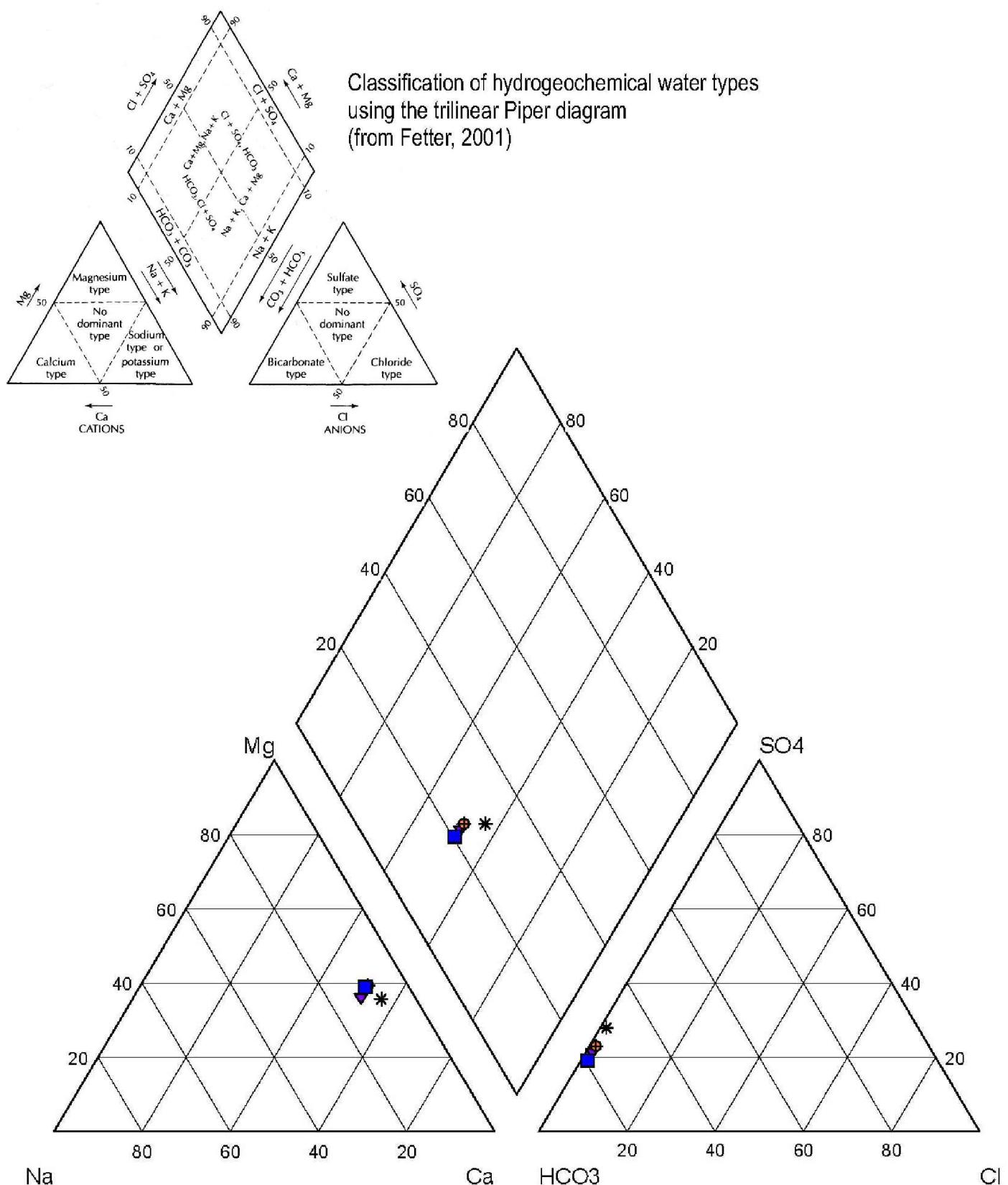


HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY

SCHOELLER PLOT

PROJECT NO.	DWN	CKD	REV
W23101317.007	CB	AJS	0
OFFICE	DATE		
EBA-WHSE	February 23, 2011		

Figure 7



LEGEND

- ▼ - CH-MW01
- - CH-MW02
- * - CH-MW03
- - CH-MW04

CLIENT

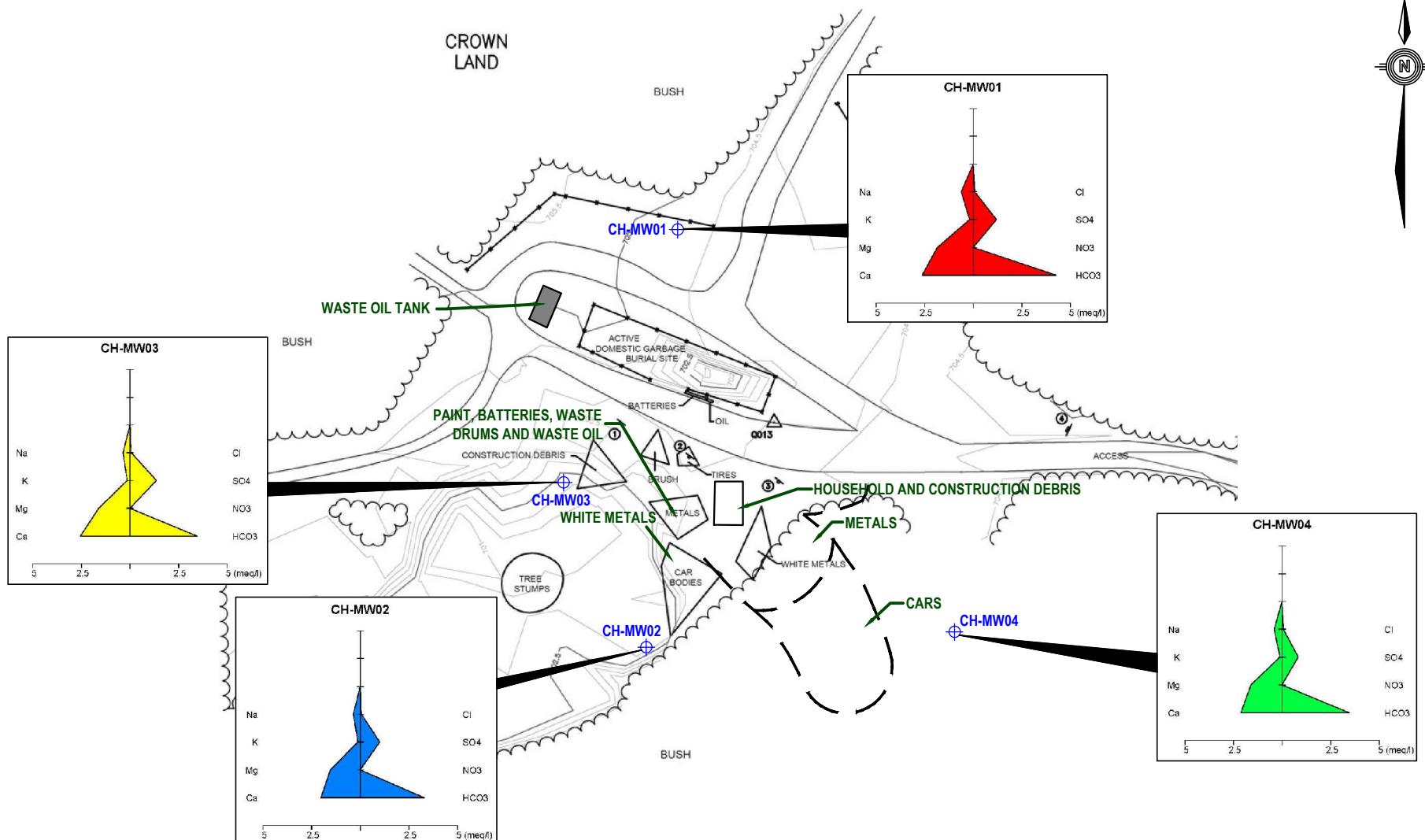


HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY

PIPER DIAGRAM



PROJECT NO.	DWN	CKD	REV	Figure 8
W23101317.007	CB	AJS	0	
OFFICE	DATE			
EBA-WHSE	February 23, 2011			



LEGEND

⊕ - GROUNDWATER MONITORING WELL LOCATION

CLIENT



HYDROGEOLOGICAL ASSESSMENT CHAMPAGNE WASTE DISPOSAL FACILITY

STIFF DIAGRAMS



PROJECT NO.
W23101317.007

DWN
CB

CKD
AJS

REV
0

OFFICE
EBA-WHSE

DATE
March 8, 2011

Figure 9

APPENDIX A

APPENDIX A 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.

APPENDIX B

APPENDIX B CHAMPAGNE WASTE DISPOSAL FACILITY PERMIT



Permit No: 80-009

WASTE DISPOSAL FACILITY PERMIT

Issued for the Operation of Waste Disposal Facilities Pursuant to
Part 6 of the *Environment Act*, s. 8 of the *Solid Waste Regulations*, s. 12 of the
Air Emissions Regulations, and s. 8 of the *Special Waste Regulations*

Permittee: Department of Community Services, Government of Yukon

Mailing Address: P.O. Box 2703 (C-9), Whitehorse, YT, Y1A 2C6

Site Locations: Waste disposal facilities listed in Schedule A

Phone/Fax: (867) 667-8684 / (867) 393-6216

Authorized Representative: Paul Moore

Email: paul.moore@gov.yk.ca

Effective Date: January 1, 2010

Expiry Date: December 31, 2011

Scope of Authorization: In accordance with your application, you are authorized to:

- a. operate a waste disposal facility;
- b. operate a special waste management facility for the acceptance, storage, and transportation of special waste generated by households, waste oil, waste batteries, waste paints, waste solvents, and waste fuels; and
- c. open burn solid waste in an amount greater than 5 kilograms per day

at the above site locations (the "site" or "sites"), as set out in the terms and conditions of this permit.

Dated this ____ day of _____, 2010

Director, Environmental Programs Branch
Environment Yukon

PART 1. GENERAL PROVISIONS

1.1 DEFINITIONS

1. In this permit,

"Act" means the *Environment Act*, R.S.Y. 2002, c. 76;

"approved plan" means a plan that is submitted by the permittee and approved by an environmental protection officer under this permit and includes any terms and conditions specified by the environmental protection officer in the approval;

"associated personnel" means all employees, contractors and volunteers involved in the permitted activities;

"Branch" means the Environmental Programs Branch, Environment Yukon;

"burning vessel" means a container or structure used for burning solid waste where air intake and combustion temperature are not controlled;

"cell" means a discrete area of a facility into which solid waste is deposited for permanent disposal and includes such areas that are no longer used for that purpose;

"dangerous wildlife" means wildlife so defined in the *Wildlife Act*, R.S.Y. 2002, c. 229;

"landfill" means a facility authorized to accept waste for final disposal, and does not include transfer stations or modified transfer stations;

"facility" means a special waste management facility and any of the following waste disposal facilities: a landfill, a modified transfer station, and a transfer station;

"groundwater receptor" means a well or receiving water body into which groundwater flows;

"head office" means the office of the permittee located in Yukon;

"listed special waste" means special waste generated by a household, waste oil, waste batteries, waste paints, waste solvents, and waste fuels;

"modified transfer station" means a waste disposal facility where construction and demolition waste and/or animal carcasses are permanently disposed on site and all other material is removed from the site for recycling or disposal at another location;

"Regulations" means the *Air Emissions Regulations*, O.I.C. 1998/207, the *Solid Waste Regulations*, O.I.C. 2000/11, and the *Special Waste Regulations*, O.I.C. 1995/047;

"service area" means the population that is anticipated to be served by a facility;

"texas gate" means an electrified metal grid on the ground that can be passed over by vehicles but will prevent entry by animals;

"transfer station" means a waste disposal facility where no solid waste is permanently disposed on site, and where all solid waste is removed from the site for recycling or disposal at another location;

"vehicle" has the same meaning as in the *Motor Vehicles Act*, R.S.Y. 2002, c. 153; and

"waste manifest" means the shipping document required to be completed by the permittee as set out in this permit in the form approved by an environmental protection officer.

2. Any term not defined in this permit that is defined in the Act or the Regulations has the same meaning as in the Act or the Regulations.
3. Schedule A forms part of this permit and may be amended in writing by an environmental protection officer from the Branch.

1.2 PLANS

1. The permittee shall develop and maintain a fire safety/emergency plan for each facility which includes notification procedures and a list of emergency phone numbers relevant to each site. All associated personnel involved with the handling or management of any wastes covered by this permit shall be familiar with this plan.
2. The permittee shall submit the following plans for approval no later than March 31, 2010:
 - a) an open burning transition plan for each facility where open burning is authorized as set out in Schedule A, which plan shall detail how the permittee will phase out open burning at each site as soon as possible or by January 1, 2012 at the latest; and
 - b) a plan for conducting hydrogeological assessments at each facility listed in Schedule A, which plan shall include timelines by which the hydrogeological assessment at each site will be completed.
3. The permittee shall submit the following plans for approval no later than June 30, 2010:
 - a) a site inspection and maintenance plan for each facility; and
 - b) a spill response plan for each facility.
4. For each facility constructed on permafrost, the permittee shall submit for approval a ground temperature monitoring plan for that facility with the hydrogeological assessment report. For those facilities not constructed on permafrost, the permittee shall submit a statement to that effect with the hydrogeological assessment report.
5. Prior to constructing a new cell at any facility, the permittee shall submit a new cell plan for approval.
6. No later than six months prior to the planned closure of a facility the permittee shall submit a facility closure plan for approval.
7. Prior to undertaking any work toward the partial or full closure of a cell, including progressive capping and reclamation of active cells, the permittee shall submit a cell closure plan for approval.

8. When the permittee is required to submit a plan under this permit, the permittee shall:
 - a) ensure the plan meets the requirements for that type of plan as directed by an environmental protection officer from the Branch in writing;
 - b) submit the plan in writing to an environmental protection officer from the Branch;
 - c) not undertake any of the activities described in the plan until the plan is approved in writing by an environmental protection officer from the Branch; and
 - d) implement the plan as of the date it is approved in writing by an environmental protection officer from the Branch.
9. If the permittee wants to amend an approved plan, the permittee shall submit the proposed amendment to an environmental protection officer from the Branch as if the amendment were a plan under paragraph 1.2.8 of this permit.
10. If an environmental protection officer from the Branch directs in writing and with reasons that an approved plan be amended, the permittee must prepare the required amendment and submit it as if it were a plan referred to in paragraph 1.2.8 of this permit.

1.3 RECORDS

1. The permittee shall keep all records required under this permit in a format acceptable to an environmental protection officer for a minimum of three years and make them available for inspection by an environmental protection officer upon request.
2. The permittee shall keep the following records at the head office:
 - a) a copy of each plan submitted under this permit, and any amendments to and approvals of each plan;
 - b) all inspections carried out for each facility under this permit (including the name of the person conducting the inspection, the date of each inspection, any observations recorded during the inspection, actions taken as a result of those observations, and the date each action was taken);
 - c) results of surface water and groundwater testing conducted at each facility, where applicable (including interpretations of monitoring results to determine trends in contaminant levels over time);
 - d) results of hydrogeological assessments undertaken at each facility;
 - e) any spills or leaks occurring at any facility, including substance involved, estimated quantity, date of observation of the spill or leak, and clean-up procedures implemented;
 - f) the types of special wastes segregated at each facility, their estimated volumes, and their storage location(s) at each facility;
 - g) any and all deficiencies remedied in accordance with paragraph 1.4.4, and how and when they were remedied; and
 - h) a copy of any waste manifests used to transport special wastes to or from the facilities.
3. The permittee shall permanently retain at the head office an updated, detailed site plan for each facility showing the locations of all active and closed cells and segregation

areas at the facility and shall produce this site plan upon request for inspection by an environmental protection officer.

1.4 OTHER

1. The permittee shall ensure that all associated personnel at each facility:
 - a) have access to a copy of this permit;
 - b) are knowledgeable of the terms and conditions of this permit; and
 - c) receive the appropriate training for the purposes of carrying out the requirements of this permit.
2. The permittee shall provide notice in writing to an environmental protection officer from the Branch prior to any significant change of circumstances at the sites, including without limitation:
 - a) closure of a facility;
 - b) change of ownership of the site;
 - c) the opening of a new cell;
 - d) changing from a burn to a no-burn or from a no-burn to a burn operation; and
 - e) change to the mailing address or phone number of the permittee.
3. Where conflicts exist between this permit, the permit application or any plans, this permit shall prevail.
4. If an inspection reveals that a facility is in any way not in compliance with this permit or approved plans, or that surface water run-off is negatively affecting the structure or physical integrity of a facility, the permittee shall repair the damage or take other actions as required to bring the facility into compliance.

PART 2. SOLID WASTE

2.1 OPERATIONS

1. The permittee shall not operate a landfill for a service area greater than 13,000 people.
2. The permittee shall ensure that all solid waste left at a facility that is not separated for recycling or transfer off-site is deposited into a cell.
3. The permittee shall ensure that all domestic waste left at a transfer station or modified transfer station is deposited into a transfer bin.
4. No solid waste shall be burned or buried at a transfer station.
5. The permittee shall ensure that the bottoms and sides of all transfer bins at transfer stations and modified transfer stations are sealed and maintained to prevent the release of solid waste into the natural environment.

6. The permittee shall divert surface water run-off away from any area of a facility where waste is stored or deposited.
7. The permittee shall ensure that animal carcasses and animal parts are buried at a landfill or modified transfer station at least 2 metres below the surface of the land. If animal carcasses or parts are discovered at a transfer station, the permittee shall ensure that they are immediately removed and transported to a landfill or modified transfer station.

2.2 SIGNAGE AND SEGREGATION

1. The permittee shall install and maintain signs at each facility containing the following information:
 - a) entrance and exit location(s) for the facility; and
 - b) telephone contact numbers for the facility manager, the local fire protection services, and the district conservation officer.
2. The permittee shall:
 - a) establish and maintain separate areas for the deposit of each type of solid waste accepted at each facility;
 - b) install and maintain appropriate signs identifying each of these areas; and
 - c) ensure that each facility is maintained to enable vehicles to access each of these areas.

2.3 FENCING AND SECURITY

1. The permittee shall install and maintain, in accordance with the manufacturer's operating and maintenance instructions and recommendations, an electric exclusion fence(s) and gates that encompass the putrescible waste disposal areas at each facility and any other areas of the facilities that become or may become an attractant to animals. The fence and gates shall be adequate to prevent dangerous wildlife from entering the encompassed areas of the facility.
2. The fences and gates referenced in paragraph 2.3.1 above must be:
 - a) activated continuously from May 1 to October 31 of each year;
 - b) activated between November 1 and April 30 of each year if there are tracks or other signs of dangerous wildlife attempting to access the facility; and
 - c) activated upon the written request of an environmental protection officer.
3. For those facilities that are open to the public when staff are not on site, the permittee shall install and maintain a texas gate at each entrance and exit of each facility.
4. For those facilities that are closed to the public when staff are not on site, the permittee shall install and maintain either a texas gate or an electrified rigid swinging gate at each entrance and exit of each facility. Any rigid swinging gates are to be closed and secured every time staff leave the facility.

5. The permittee shall install and maintain fencing or other comparable measures at each facility to prevent the release of solid waste from the facility.
6. The permittee shall install and maintain signs marking the areas, if any, of each facility that are not to be accessed by the public and erect or construct fencing, gates or other similar structures to prevent public access to these areas.

2.4 WASTE COVER

1. At any facility where solid waste is burned or incinerated outside of a burning vessel or incinerator, the permittee shall cover burned solid waste:
 - a) every month for facilities with service areas of 100 or more people; or
 - b) every two months for facilities which with service areas of less than 100 people, with soil or other comparable material to a depth of 0.1 metres, or any other depth that an environmental protection officer considers necessary to prevent windblown solid waste and attraction of birds.
2. At any facility where solid waste is burned in a burning vessel or incinerated, when the permittee removes unburned solid waste and ash from the burning vessel or incinerator after burning, it shall be placed in a cell at the facility and immediately covered with soil or other comparable material to a depth of 0.1 metres, or any other depth that an environmental protection officer considers necessary to prevent windblown solid waste and attraction of birds.
3. At any facility where solid waste will not be burned or transferred off-site, the permittee shall cover any exposed solid waste with soil or other comparable material to a depth of 0.1 metres or any other depth that an environmental protection officer considers necessary to prevent windblown solid waste and attraction of birds:
 - a) every day the facility is used if the facility has a service area of more than 5,000 people;
 - b) every seven days if the facility has a service area of 500 to 5,000 people;
 - c) every 21 days if the facility has a service area of less than 500 people; or
 - d) after every 0.5 metres of solid waste is deposited,whichever occurs first.
4. Paragraphs 2.4.1, 2.4.3 and 2.4.3 do not apply between November 15 and April 15 of each year if soil or other comparable cover material cannot reasonably be obtained.

2.5 OPEN BURNING OF SOLID WASTE

1. The permittee shall ensure that solid wastes are only burned at those facilities where open burning is specifically authorized as set out in Schedule A.
2. At those facilities where open burning is permitted as set out in Schedule A , the permittee shall:

- a) ensure, to the extent practicable, that solid waste to be open burned is dry and shall only burn wet solid waste when to delay such burning may result in attraction of animals or creation of a fire hazard;
- b) prior to open burning the solid waste, separate combustible solid waste from any underlying grass or peat layer;
- c) not allow solid waste to smoulder (burn and smoke without flame) during an open burn;
- d) not use waste oil, tires or aviation gasoline to assist with the incineration of solid waste during an open burn;
- e) not use any waste petroleum products to assist with the open burning of solid waste without prior approval to do so in writing by an environmental protection officer from the Branch;
- f) prevent runoff water from entering the active open burning area; and
- g) not open burn tires or treated wood products, including wood products that have been treated with creosote, chromium copper arsenate (CCA), pentachlorophenol (PCP), or any type of paint.

2.6 MONITORING

1. The permittee shall ensure that samples are taken from all active groundwater monitoring wells at each facility in accordance with protocols for groundwater sampling approved by the Branch. The water level in all monitoring wells shall be recorded at each sampling event. Samples shall be taken twice each year the permit is in effect, once in the spring and once in the late summer, or as otherwise directed in writing by an environmental protection officer.
2. The permittee shall ensure that samples are taken, using generally-accepted sampling practice, from all downgradient surface water bodies within 1 km of each facility that are identified in the hydrogeological assessment as being potentially impacted by the facility. Samples shall be taken concurrently with each groundwater sampling event or as otherwise directed in writing by an environmental protection officer.
3. All groundwater samples shall be analyzed for the following parameters:
 - Major ions (Calcium, Magnesium, Sodium, Potassium, Chloride, Sulphate, Nitrate Nitrogen, Nitrite Nitrogen, Phosphate)
 - Dissolved metals
 - Mercury
 - Hardness
 - Alkalinity
 - Carbonate
 - Bicarbonate
 - pH
 - Total dissolved solids
 - Ammonia
 - Dissolved organic carbon
 - Volatile organic compounds

- Chemical oxygen demand
- Total Kjeldahl nitrogen
- EPH_{W10-19} (Extractable Petroleum Hydrocarbons in Water, C10-C19)
- VH_{W6-10} (Volatile Petroleum Hydrocarbons in Water, C6-C10)
- BTEX (Benzene, Toluene, Ethylbenzene, and Total Xylenes)
- PAHs (Polycyclic Aromatic Hydrocarbons)
- Faecal coliforms (for those sites at which biosolids or liquids are deposited)

4. All surface water samples shall be analyzed for the following parameters:
 - Major ions (Calcium, Magnesium, Sodium, Potassium, Chloride, Sulphate, Nitrate Nitrogen, Nitrite Nitrogen, Phosphate)
 - Total metals
 - Mercury
 - Hardness
 - Alkalinity
 - Carbonate
 - Bicarbonate
 - pH
 - Total dissolved solids
 - Ammonia
 - Dissolved organic carbon
 - Chemical oxygen demand
 - Biochemical oxygen demand
 - Total Kjeldahl nitrogen
 - EPH_{W10-19} (Extractable Petroleum Hydrocarbons in Water, C10-C19)
 - VH_{W6-10} (Volatile Petroleum Hydrocarbons in Water, C6-C10)
 - BTEX (Benzene, Toluene, Ethylbenzene, and Total Xylenes)
 - PAHs (Polycyclic Aromatic Hydrocarbons)
 - Faecal coliforms (for those sites at which biosolids or liquids are deposited)
5. All water samples required by this permit shall be analyzed at a laboratory that is accredited as conforming to ISO/IEC 17025 by an accrediting body that conforms to ISO/IEC 17011.
6. The results of the analyses required under sections 2.6.3 and 2.6.4 shall be submitted to the Branch by January 31st of the year following that in which the samples were taken.
7. If water quality monitoring reveals that surface or groundwater downgradient of the facility contains contaminants in excess of the standards in the *Contaminated Sites Regulation*, the permittee shall conduct additional monitoring or develop and implement an adaptive management plan to address the contamination, as directed in writing by an environmental protection officer.

PART 3. SPECIAL WASTE

3.1 STORAGE AND HANDLING

1. The permittee shall not handle special wastes other than listed special wastes.
2. The permittee shall not discard, destroy, treat, process, incinerate, or recycle special wastes, except for mixing or dilution authorized by an environmental protection officer pursuant to section 3.1.3(k) below.
3. At facilities where special wastes are accepted, the permittee shall:
 - a) cover or store out of inclement weather all drums and other portable containers containing special wastes;
 - b) store all drums and other portable containers containing special wastes off the ground;
 - c) immediately remove all special wastes stored in leaking containers or transfer them to intact containers;
 - d) to the extent practicable, handle and store special wastes separately from solid waste;
 - e) store special wastes in a manner that will prevent incompatible substances from reacting adversely with each other;
 - f) post signs identifying examples of common special wastes and phone number(s) and/or website(s) with information on appropriate disposal options for those materials, whether or not those materials are collected onsite;
 - g) ensure that all containers used for the storage of special waste are clearly marked to identify what special waste the container is intended to hold;
 - h) ensure that containers used for the storage of special waste are made of materials that will not adversely react with the special waste;
 - i) not allow any residue at the bottom of a container used for the storage of special wastes to be released to the environment. Such residue shall be collected by the permittee, separated from other waste and treated as a special waste until proven by testing to not be special waste;
 - j) not mix waste oil from piston engine aircraft with other waste oil;
 - k) only mix or dilute a special waste with any other material where such mixing or dilution is authorized by an environmental protection officer from the Branch as an acceptable treatment/disposal option for the special waste;
 - l) keep all containers used to store special waste closed at all times during storage and shall not open, handle or store the container in a manner which may cause it to leak or rupture; and
 - m) shall have every closed container that
 - (i) has a capacity of more than 230 litres;
 - (ii) is designed to be installed in a fixed location; and
 - (iii) will contain special waste

certified by a testing agency recognized by the Standards Council of Canada prior to putting special waste in the container.

3.2 TRANSPORT AND TRANSFER

1. The permittee shall complete a waste manifest documenting each shipment of special wastes from each site. The permittee shall distribute copies of the waste manifest in the manner described thereon.
2. The permittee shall ensure that special wastes are transported to a permitted special waste management facility in the Yukon or another jurisdiction by a carrier permitted in the Yukon to receive and transport the special wastes.
3. The permittee shall ensure that all vehicles operated by the permittee and carrying any special wastes are secured to prevent access by unauthorized persons.

I, Paul Moore, certify that I am an authorized representative of the Department of Community Services, and that I have read and understood the terms and conditions of this permit.

Paul Moore, Authorized Representative
Department of Community Services

Date

Schedule A: List of Permitted Waste Disposal Facilities

Table 1. Landfills

Site name	Location	Permitted to open burn solid waste
Beaver Creek	Reservation 115K07-038 140°50'17"W, 62°25'18"N	Yes, in burning vessel
Braeburn	Reservation 105E05-015 Lot 1063 Quad 105E/05, 86969 CLSR YT 135°45'34"W, 61°26'7"N	Yes, in burning vessel
Burwash Landing	Reservation 13462 138°53'4"W, 61°18'25"N	Yes, in burning vessel
Canyon	Lot 1042 Quad 115A/14, 85493 CLSR YT 137°9'21"W, 60°50'58"N	Yes, in burning vessel
Champagne	Reservation 115A16-007 Lot 1039 Quad 115A/16, 87076 CLSR YT 136°27'32"W, 60°47'25"N	Yes, in burning vessel
Johnson's Crossing	Lot 1040 Quad 105C/06, 86853 CLSR YT 133°17'9"W, 60°29'34"N	Yes, in burning vessel
Horsecamp Hill	Reservation 115K02-010 140°37'32"W, 62°2'50"N	Yes, in burning vessel
Keno City	135°19'18"W, 63°54'33"N	Yes, in burning vessel
Old Crow	Reservation 116O12-024 139°52'14"W, 67°34'9"N	Yes, in burning vessel
Pelly Crossing	Reservation 115I15-030 136°35'56"W, 62°46'18"N	Yes, in burning vessel
Ross River	Reservation 105F16-008 132°26'40"W, 61°57'44"N	Yes, in burning vessel
Silver City	Reservation 2007-0498 138°20'1"W, 61°1'25"N	Yes, in burning vessel
Stewart Crossing	Reservation 115P07-020 Lot 1026 Quad 115P/07, 86830 CLSR YT 136°39'33"W, 63°20'23"N	Yes, in burning vessel
Upper Liard	Reservation 105A02-120 Lot 1109 Quad 105A/02, 86882 CLSR YT 128°56'56"W 60°3'14"N	Yes, in burning vessel

Table 2. Modified Transfer Stations

Site name	Location	Permitted to open burn solid waste
Carcross	Kilometre 50.7 Tagish Road 134°40'25"W, 60°11'37"N	No
Deep Creek	Reservation 105E03-031 135°13'48"W, 61°4'56"N	No
Destruction Bay	Reservation 115G07-012 138°51'33"W, 61°17'25"N	No
Marsh Lake	Reservation 105D09-030 Lot 1061 Quad 105D/09, 86854 CLSR YT 134°25'46"W, 60°33'53"N	Yes, C&D waste without burning vessel
Mount Lorne	Reservation 770004 134°51'38"W, 60°28'41"N	No
Tagish	Lot 1100 Quad 105D/08 134°17'29"W, 60°16'28"N	No

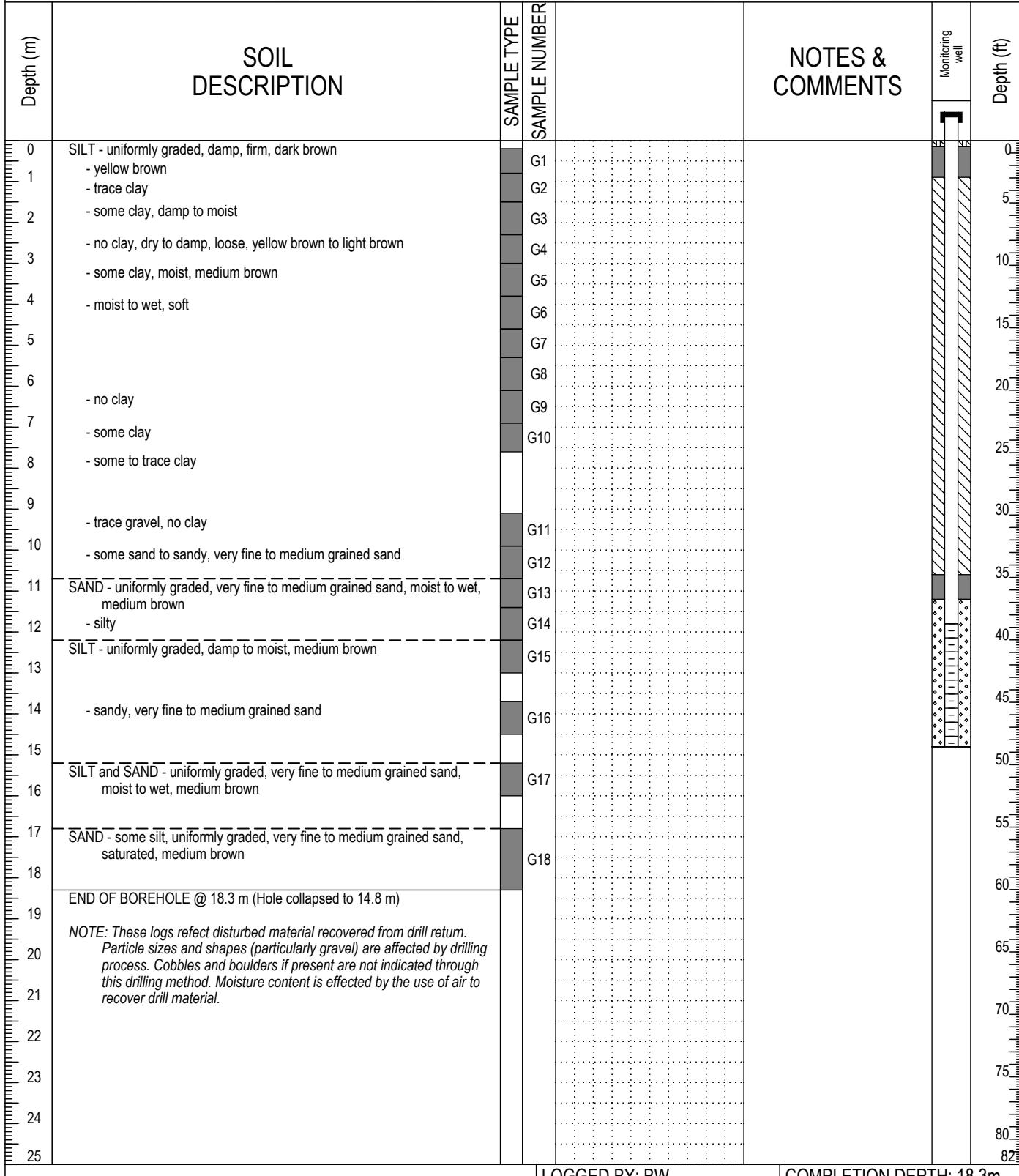
Table 3. Transfer Stations

Site name	Location	Permitted to open burn solid waste
(N/A)		

APPENDIX C

APPENDIX C MONITORING WELL LOGS

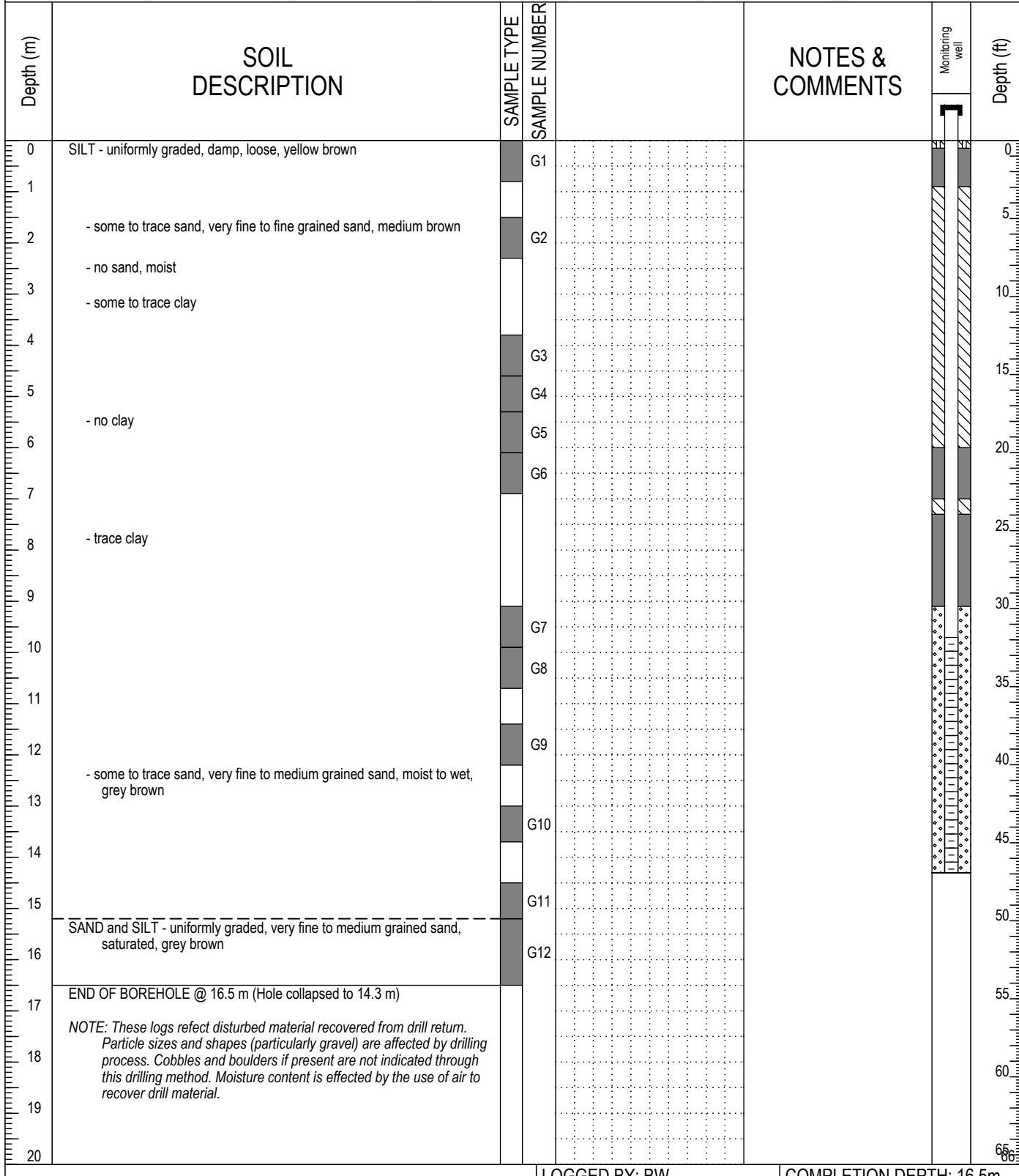
2010 Monitoring Well Program	CLIENT: YG - Department of Community Services	PROJECT NO. - BOREHOLE NO.
Champagne Landfill	DRILL: Geotech MST-Odex	W23101317-CH-MW01
Champagne, YT	6740298N; 420588E; Zone 8	
SAMPLE TYPE	DISTURBED	NO RECOVERY
BACKFILL TYPE	BENTONITE	PEA GRAVEL
	SPT	A-CASING
	SLOUGH	GROUT
		SHELBY TUBE
		DRILL CUTTINGS
		CORE
		SAND



 EBA Engineering Consultants Ltd.

LOGGED BY: BW	COMPLETION DEPTH: 18.3m
REVIEWED BY: RMM	COMPLETE: 10/19/2010
DRAWING NO:	Page 1 of 1

2010 Monitoring Well Program	CLIENT: YG - Department of Community Services	PROJECT NO. - BOREHOLE NO.
Champagne Landfill	DRILL: Geotech MST-Odex	W23101317-CH-MW02
Champagne, YT	6740222N; 420525E; Zone 8	
SAMPLE TYPE	DISTURBED	NO RECOVERY
BACKFILL TYPE	BENTONITE	PEA GRAVEL
	SPT	A-CASING
	SLOUGH	GROUT
		SHELBY TUBE
		DRILL CUTTINGS
		CORE
		SAND



EBA Engineering Consultants Ltd.

LOGGED BY: BW

COMPLETION DEPTH: 16.5m

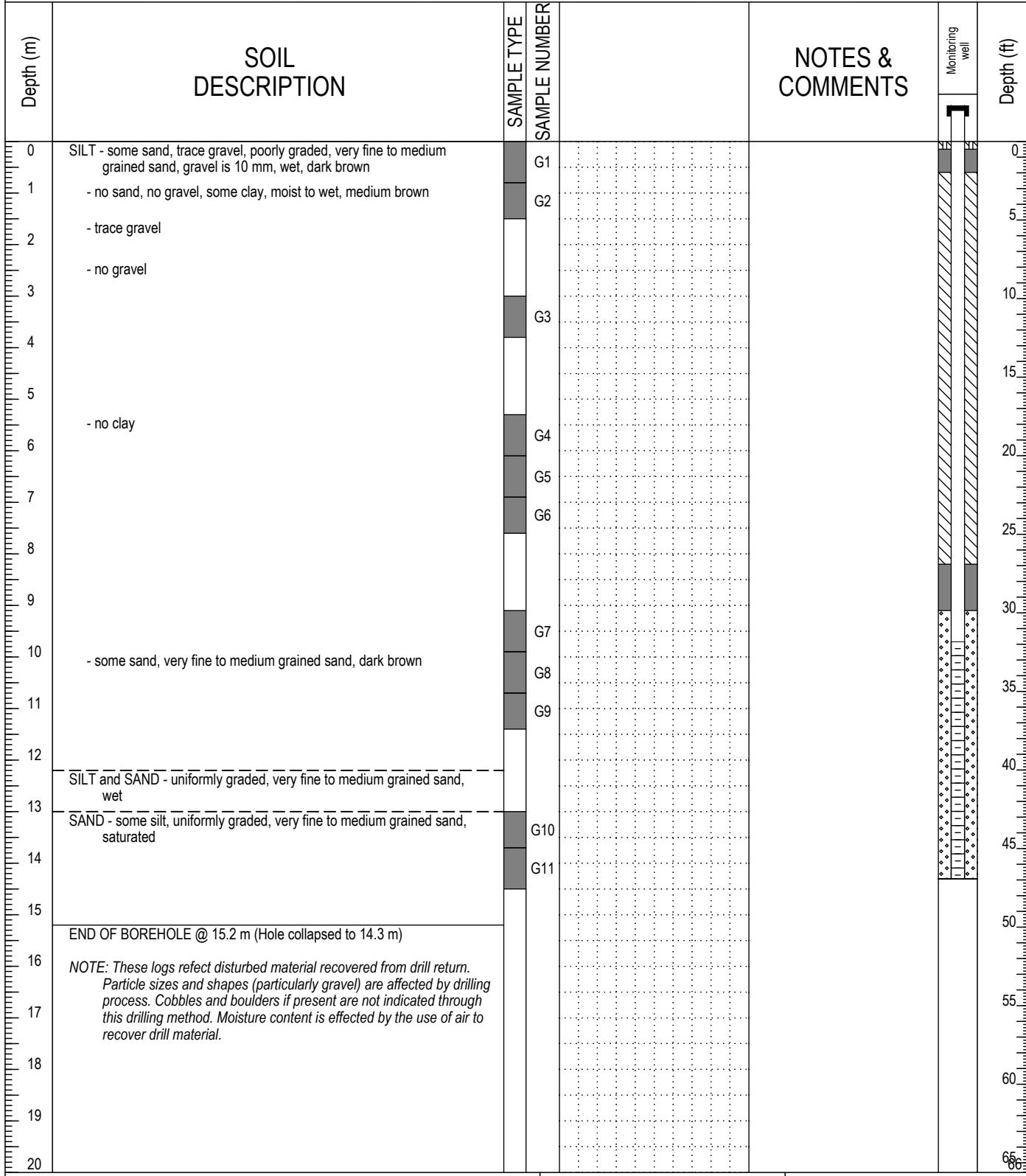
REVIEWED BY: RMM

COMPLETE: 10/21/2010

DRAWING NO:

Page 1 of 1

2010 Monitoring Well Program	CLIENT: YG - Department of Community Services	PROJECT NO. - BOREHOLE NO.
Champagne Landfill	DRILL: Geotech MST-Odex	W23101317-CH-MW03
Champagne, YT	6740274N; 420536E; Zone 8	
SAMPLE TYPE	DISTURBED	NO RECOVERY
BACKFILL TYPE	BENTONITE	PEA GRAVEL
	SPT	A-CASING
	SLOUGH	GROUT
	CORE	DRILL CUTTINGS
	SAND	SAND



EBA Engineering Consultants Ltd.

LOGGED BY: BW

COMPLETION DEPTH: 15.2m

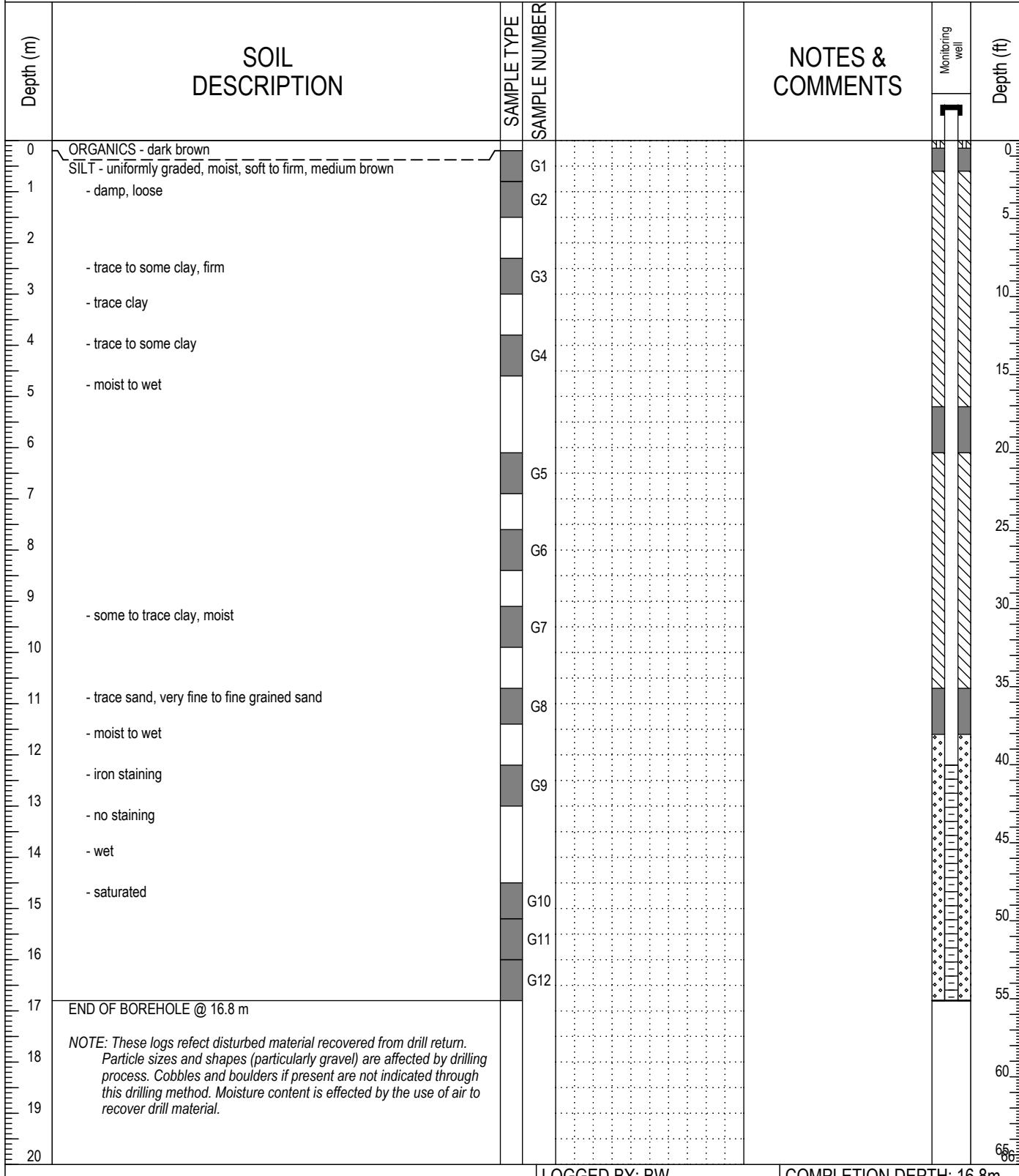
REVIEWED BY: RMM

COMPLETE: 10/20/2010

DRAWING NO:

Page 1 of 1

2010 Monitoring Well Program	CLIENT: YG - Department of Community Services	PROJECT NO. - BOREHOLE NO.
Champagne Landfill	DRILL: Geotech MST-Odex	W23101317-CH-MW04
Champagne, YT	6740185N; 420586E; Zone 8	
SAMPLE TYPE	DISTURBED	NO RECOVERY
BACKFILL TYPE	BENTONITE	PEA GRAVEL
	SPT	A-CASING
	SLOUGH	GROUT
		SHELBY TUBE
		DRILL CUTTINGS
		CORE
		SAND



EBA Engineering Consultants Ltd.

LOGGED BY: BW

COMPLETION DEPTH: 16.8m

REVIEWED BY: RMM

COMPLETE: 10/25/2010

DRAWING NO:

Page 1 of 1

APPENDIX D

APPENDIX D GROUNDWATER WELL DEVELOPMENT LOGS

Groundwater Development and Purguing/Sampling Sheet

WELL NO.: CH-MW01
LOCATION: Champagne
WEATHER: cold
TEMPERATURE: -10 (approx.)

JOB NO.: W2310317.007
COMPLETED BY: Breanne
DATE: October 25
TIME: 4 pm

MONITORING WELL INFORMATION

Depth to Water Below Top of Casing: A 14.008 (metres) (B-A)*2.0 = 7.4 litres -for a 51mm (2.0 inch) diameter well
 Depth to Bottom of Well Below Top of Casing: B 15.64 (metres) (B-A)*1.1 = - litres -for a 38mm (1.5 inch) diameter well
 Diameter Standpipe: C 2" (mm) Product Thickness: - (by probe or paste?)

EQUIPMENT LIST

pH and Temp. Meter:	Model <u>EBA</u>	Serial No. _____	Calibration Buffers: <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 10	
Conductivity Meter:	Model <u>EBA</u>	Serial No. _____	Calibration Solutions: _____ and _____	
Dissolved Oxygen Meter:	Model <u>-</u>	Serial No. _____		
Turbidity Meter:	Model <u>-</u>	Serial No. _____		
Pump:	<input type="checkbox"/> none	<input type="checkbox"/> Waterra	<input type="checkbox"/> Peristaltic	<input type="checkbox"/> Submersible
Bailer:	<input type="checkbox"/> none	<input type="checkbox"/> Stainless Steel	<input type="checkbox"/> Teflon	<input type="checkbox"/> PVC Hand bailer 20L elw
Filter:	<input type="checkbox"/> none	<input type="checkbox"/> Waterra in-line	<input type="checkbox"/> Vacuum (disposal)	<input type="checkbox"/> Vacuum (re-usable)

WELL DEVELOPMENT/PURGING

Purge volume: Well vol x 3 volumes = 24 litres Method: bailing
Flow Rate — L/min Volume: — Start: — Finish: —

Comments (Recovery rate, etc.):

SAMPLING Water Odour: no yes (describe) _____ Sheen no yes (describe) _____
Turbidity: _____ NTU Clear: _____ 1 2 3 4 5 6 7 8 9 10 Very Silty
or 1 - 10 relative scale (circle as appropriate):

NAMI Information (odour, colour, etc.)

BOTTLE			Size:	40ml	100mL	250mL	500mL	1L	2L	4L	Filtered	Preservatives	
	<input type="checkbox"/>	Plastic		<input type="checkbox"/>	Glass	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
1	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
3	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
4	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
5	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
6	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
7	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
8	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Groundwater Development and Purguing/Sampling Sheet

WELL NO.: CH-MW02
LOCATION: champagne
WEATHER: cold, some sun clouds
TEMPERATURE: -10 (Approx)

JOB NO.: W23101317 007
COMPLETED BY: Breanne
DATE: Oct 26, 2016
TIME: : :

MONITORING WELL INFORMATION

Depth to Water Below Top of Casing: A 11.527 (metres) (B-A)*2.0 = ~15 litres -for a 51mm (2.0 inch) diameter well
 Depth to Bottom of Well Below Top of Casing: B 15.2 (metres) (B-A)*1.1 = _____ litres -for a 38mm (1.5 inch) diameter well
 Diameter Standpipe: C (mm) Product Thickness: _____ (by probe or paste?)

EQUIPMENT LIST

pH and Temp. Meter:	Model <u>EBA</u>	Serial No. <u> </u>	Calibration Buffers: <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 7 <input type="checkbox"/> 10	
Conductivity Meter:	Model <u>EBA</u>	Serial No. <u> </u>	Calibration Solutions: <u> </u> and <u> </u>	
Dissolved Oxygen Meter:	Model _____	Serial No. _____		
Turbidity Meter:	Model _____	Serial No. _____		
Pump:	<input type="checkbox"/> none	<input type="checkbox"/> Waterra	<input type="checkbox"/> Peristaltic	<input type="checkbox"/> Submersible
Bailer:	<input type="checkbox"/> none	<input type="checkbox"/> Stainless Steel	<input type="checkbox"/> Teflon	<input type="checkbox"/> PVC <i>hand bailer polyethylene</i>
Filter:	<input type="checkbox"/> none	<input type="checkbox"/> Waterra in-line	<input type="checkbox"/> Vacuum (disposal)	<input type="checkbox"/> Vacuum (re-usable)

WELL DEVELOPMENT/PURGING

Purge volume: Well vol x 3 volumes = 45 litres Method: hand bailer
Flow Rate — L/min Volume: — Start: — Finish: —

Comments (Recovery rate, etc.):

SAMPLING	Water Odour:	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes (describe) _____											
Turbidity:	NTU	Clear:	1	2	3	4	5	6	7	8	9	10	Very Silty
or 1 - 10 relative scale (circle as appropriate):													
Other: _____													

NAPL Information (odour, colour, etc.)

BOTTLE			Size:	40ml	100mL	250mL	500mL	1L	2L	4L	Filtered	Preservatives	
	<input type="checkbox"/>	Plastic		<input type="checkbox"/>	Glass	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
1	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
3	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
4	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
5	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
6	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
7	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
8	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Groundwater Development and Purguing/Sampling Sheet

WELL NO.: CH - MW03
LOCATION: Champagne
WEATHER: Cold, sun & cloud
TEMPERATURE: Approx -10

JOB NO.: W23101317.007
COMPLETED BY: Breanne
DATE: Oct 26
TIME:

MONITORING WELL INFORMATION

Depth to Water Below Top of Casing: A 12.43 (metres) (B-A)*2.0 = 112 litres -for a 51mm (2.0 inch) diameter well
 Depth to Bottom of Well Below Top of Casing: B 15.14 (metres) (B-A)*1.1 = _____ litres -for a 38mm (1.5 inch) diameter well
 Diameter Standpipe: C 2 (mm) Product Thickness: _____ (by probe or paste?)

EQUIPMENT LIST

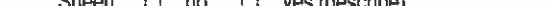
pH and Temp. Meter:	Model <u>EBA</u>	Serial No. <u>-</u>	Calibration Buffers: <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 10	
Conductivity Meter:	Model <u>EBA</u>	Serial No. <u>-</u>	Calibration Solutions: _____ and _____	
Dissolved Oxygen Meter:	Model <u>-</u>	Serial No. <u>-</u>		
Turbidity Meter:	Model <u>-</u>	Serial No. <u>-</u>		
Pump:	<input type="checkbox"/> none	<input type="checkbox"/> Waterra	<input type="checkbox"/> Peristaltic	<input type="checkbox"/> Submersible
Bailer:	<input type="checkbox"/> none	<input type="checkbox"/> Stainless Steel	<input type="checkbox"/> Teflon	<input type="checkbox"/> PVC <i>H and Baiter natur ethyl</i>
Filter:	<input type="checkbox"/> none	<input type="checkbox"/> Waterra in-line	<input type="checkbox"/> Vacuum (disposal)	<input type="checkbox"/> Vacuum (re-usable)

WELL DEVELOPMENT/PURGING

Purge volume: Well vol x 3 volumes = 30 litres Method: hand bail

Flow Rate: _____ L/min Volume: _____ ml Start: _____ Finish: _____

Comments (Recovery rate, etc.):

SAMPLING	Water Odour: <input type="checkbox"/> no <input checked="" type="checkbox"/> yes (describe) _____	Sheen <input type="checkbox"/> no <input checked="" type="checkbox"/> yes (describe) _____
Turbidity: _____ NTU or 1 - 10 relative scale (circle as appropriate):	Clear: 	Very Silty
Other:	_____	
NAPL Information (odour, colour, etc.)		

BOTTLE			Size:	40ml	100mL	250mL	500mL	1L	2L	4L	Filtered	Preservatives
	Plastic	Glass		—	—	—	—	—	—	—		
1	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	X	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No
3	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	X	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No
4	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	X	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	X	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No
6	<input type="checkbox"/>	Plastic	<input checked="" type="checkbox"/>	Glass	—	—	—	—	—	X	<input type="checkbox"/> Yes	<input type="checkbox"/> No
7	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No
8	<input type="checkbox"/>	Plastic	<input type="checkbox"/>	Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Groundwater Development and Purgning/Sampling Sheet

WELL NO.: C1-NW04
LOCATION: champagne
WEATHER: cold, sun & cloud
TEMPERATURE: -10 (Approx.)

JOB NO.: W23101317007
COMPLETED BY: Preanne
DATE: Oct 26, 2010
TIME: -

MONITORING WELL INFORMATION

Depth to Water Below Top of Casing: A 13.23 (metres) $(B-A)^2 \cdot 2.0 =$ 202 litres -for a 51mm (2.0 inch) diameter well
 Depth to Bottom of Well Below Top of Casing: B 17.72 (metres) $(B-A)^2 \cdot 1.1 =$ _____ litres -for a 38mm (1.5 inch) diameter well
 Diameter Standpipe: C 2" (mm) Product Thickness: _____ (by probe or paste?)

EQUIPMENT LIST

pH and Temp. Meter:	Model <u>EBA</u>	Serial No. _____	Calibration Buffers: <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 7 <input type="checkbox"/> 10	
Conductivity Meter:	Model <u>EBA</u>	Serial No. _____	Calibration Solutions: _____ and _____	
Dissolved Oxygen Meter:	Model _____	Serial No. _____		
Turbidity Meter:	Model _____	Serial No. _____		
Pump:	<input type="checkbox"/> none	<input type="checkbox"/> Waterra	<input type="checkbox"/> Peristaltic	<input type="checkbox"/> Submersible
Bailer:	<input type="checkbox"/> none	<input type="checkbox"/> Stainless Steel	<input type="checkbox"/> Teflon	<input type="checkbox"/> PVC <i>hand bailer polyethylene</i>
Filter:	<input type="checkbox"/> none	<input type="checkbox"/> Waterra in-line	<input type="checkbox"/> Vacuum (disposal)	<input type="checkbox"/> Vacuum (re-usable)

WELL DEVELOPMENT/PURGING

Purge volume: Well vol x 3 volumes = 60 litres Method: Hand bailring
Flow Rate - L/min Volume: - Start: - Finish: -

Comments (Recovery rate, etc.):

SAMPLING Water Odour: no yes (describe) _____ Sheen no yes (describe) _____
Turbidity: _____ NTU Clear: 1 2 3 4 5 6 7 8 9 10 Very Silty
or 1 - 10 relative scale (circle as appropriate):
Other: _____

NAPL Information (odour, colour, etc.)

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BOTTLE Size: 40ml 100ml 250ml 500ml 1l 2l 4l Filtered Preservatives

CONTAINER	SIZE	40ML	100ML	200ML	500ML	1L	2L	4L	Filtered		Preservatives
									Yes	No	
1	<input type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	No
2	<input type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	No
3	<input type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	No
4	<input type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	No
5	<input type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	No
6	<input type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	No
7	<input type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	No
8	<input type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>	No

APPENDIX E

APPENDIX E GROUNDWATER SAMPLING FIELD SHEETS

Groundwater Development and Purging/Sampling Sheet

Development
 Purge/Sample

WELL NO.: Champagne NW-01
 LOCATION: Champagne Landfill
 WEATHER: clear - 31°C
 TEMPERATURE: - 7°C

JOB NO.: WA 3101317
 COMPLETED BY: Kristen Roman
 DATE: Nov. 9, 2018
 TIME: 9:15 AM

MONITORING WELL INFORMATION

Depth to Water Below Top of Casing: A 14.020 (metres) One well volume:
 Depth to Bottom of Well Below Top of Casing: B 15.77 (metres) (B-A)*2.0 = 0.94 litres - for a 51mm (2.0 inch) diameter well
 Diameter Standpipe: C 5.1 (mm) (B-A)*1.1 = — litres - for a 38mm (1.5 inch) diameter well
 Product Thickness: — (by probe or paste?)

EQUIPMENT LIST

pH and Temp. Meter:	Model <u>Hanna</u>	Serial No. _____	Calibration Buffers: <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 10
Conductivity Meter:	Model <u>"</u>	Serial No. _____	Calibration Solutions: <u>1413 μS</u> and <u>—</u>
Dissolved Oxygen Meter:	Model <u>—</u>	Serial No. _____	<u>Not calibrated</u> for TDS
Turbidity Meter:	Model <u>HANNA</u>	Serial No. <u>H98703</u>	
Pump:	<input checked="" type="checkbox"/> none	<input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible	
Bailer:	<input type="checkbox"/> none	<input type="checkbox"/> Stainless Steel <input type="checkbox"/> Teflon <input checked="" type="checkbox"/> PVC	
Filter:	<input checked="" type="checkbox"/> none	<input type="checkbox"/> Waterra in-line <input type="checkbox"/> Vacuum (disposal) <input type="checkbox"/> Vacuum (re-usable)	

WELL DEVELOPMENT/PURGING

Purge volume: Well vol x 3 volumes = 8.82 litres Method: Hand bail
 Flow Rate — L/min Volume: 9L Start: 9:33 Finish: 11:16

TIME	VOLUME REMOVED (L)	ORG. MAD. (PPM)	TEMP (oC)	pH (UNITS)	COND. (uS/cm)	TURBIDITY (NTU)	DIS.02 (mg/L) or %	REMARKS	
								(colour, odour, sheen, brittle film, etc.)	Water level
9:34	1L	276	0.0	7.82	517	149	—	clean, clearish	
10:45	1L						14.225		
10:46	1L						14.386		
10:51	1L	279	4.3	7.75	499	160	14.42	turbid, cloudy	
10:54	1L						14.45	turbid	
11:02	1L						14.54	turbid	
11:05	1L	205	0.5	7.71	574	160	14.54	turbid, brownish	
11:11	1L						14.52	turbid, brown	
11:16	1L						14.54	turbid, brown	

Comments (Recovery rate, etc.): Forget to remove protector on the probe; Field data are unreliable

SAMPLING Water Odour: no yes (describe) _____ Sheen no yes (describe) _____

Turbidity: — NTU Clear: 1 2 3 4 5 6 7 8 9 10 Very Silty

or 1 - 10 relative scale (circle as appropriate): Other: _____

NAPL Information (odour, colour, etc.): _____

BOTTLE	Size:	40ml	100mL	250mL	500mL	1L	2L	4L	Filtered	Preservatives
		3	—	—	—	—	—	—	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>BTX</u>	
1	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
2	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
3	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	1	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
4	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	2	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
5	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	1	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
6	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	1	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
7	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	1	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
8	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	

Groundwater Development and Purging/Sampling Sheet

Development
 Purge/Sample

WELL NO.: MW02
 LOCATION: CHAMPAGNE LANDFILL
 WEATHER: sunny, blue sky, birds singing
 TEMPERATURE: - 5°C

JOB NO.: 623701317
 COMPLETED BY: Eliane Ray
 DATE: Nov. 9, 2010
 TIME: 12:34

MONITORING WELL INFORMATION		One well volume:	
Depth to Water Below Top of Casing:	A 11.545 (metres)	(B-A)*2.0 =	7.390 litres -for a 51mm (2.0 inch) diameter well
Depth to Bottom of Well Below Top of Casing:	B 15.24 (metres)	(B-A)*1.1 =	— litres -for a 38mm (1.5 inch) diameter well
Diameter Standpipe:	C 51 (mm)	Product Thickness:	— (by probe or paste?)

EQUIPMENT LIST	
pH and Temp. Meter:	Model Hanna
Conductivity Meter:	Model —
Dissolved Oxygen Meter:	Model —
Turbidity Meter:	Model Hanna
Pump:	<input checked="" type="checkbox"/> none <input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible
Bailer:	<input type="checkbox"/> none <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Teflon <input checked="" type="checkbox"/> PVC
Filter:	<input checked="" type="checkbox"/> none <input type="checkbox"/> Waterra in-line <input type="checkbox"/> Vacuum (disposal) <input type="checkbox"/> Vacuum (re-usable)

WELL DEVELOPMENT/PURGING								
Purge volume: Well vol x	3	volumes =	22.17	litres	Method: hand bail			
Flow Rate	—	l/min	Volume:	22L	Start:	2:37	Finish:	2:57
TIME	VOLUME REMOVED (L)	ORG-VAP. (PPM)	TEMP (oC)	pH (UNITS)	COND. (uS/cm)	TURBIDITY (NTU)	BIS-02 (mg/L) or %	REMARKS (colour, odour, sheen, brittle film, etc.)
12:57	0.95L	2	0.0 °C	7.69	7	619		clear-greyish
2:37	8.00L	0	frozen	7.80	0	Linear		
2:45	15.6 L	—	1.4°C	7.76	420	2 Linear		muddy, greyish
2:57	22.0L	—	1.3°C	7.83	388	Linear		

Used a different multimeter which wouldn't calibrate for TDS

Comments (Recovery rate, etc.):

SAMPLING Water Odour: no yes (describe) _____ Sheen: no yes (describe) _____

Turbidity: _____ NTU Clear: 1 2 3 4 5 6 7 8 9 10 Very Silty

or 1–10 relative scale (circle as appropriate): Other: water is gray with silty sediments

NAPL Information (odour, colour, etc.): _____

BOTTLE	Size:	40ml	100mL	250mL	500mL	1L	2L	4L	Filtered	Preservatives
1	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Glass	3	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	BTGX
2	<input type="checkbox"/> Plastic	<input checked="" type="checkbox"/> Glass	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—
3	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	1	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MICRO
4	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	2	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—
5	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	1	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	HCL
6	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	1	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	H2SO4
7	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	1	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—
8	<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Glass	—	—	1	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	—

Groundwater Development and Purging/Sampling Sheet

Development
 Purge/Sample

WELL NO.: CH-MW-03
 LOCATION: Champagne Landfill
 WEATHER: Sunny
 TEMPERATURE: -5°

JOB NO.: W23101317
 COMPLETED BY: Kristen Ranga
 DATE: Nov. 9, 2010
 TIME: 12:35 pm

MONITORING WELL INFORMATION			One well volume:		
Depth to Water Below Top of Casing:	A <u>12.440</u> (metres)	(B-A)*2.0 = <u>5.44</u> litres	-for a 51mm (2.0 inch) diameter well		
Depth to Bottom of Well Below Top of Casing:	B <u>15.160</u> (metres)	(B-A)*1.1 = <u>—</u> litres	-for a 38mm (1.5 inch) diameter well		
Diameter Standpipe:	C <u>5.1</u> (mm)	Product Thickness: <u>—</u>	(by probe or paste?)		
EQUIPMENT LIST					
pH and Temp. Meter:	Model <u>Hanna</u>	Serial No. <u>H1</u>	Calibration Buffers: <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 10		
Conductivity Meter:	Model <u>Hanna</u>	Serial No. <u>H1</u>	Calibration Solutions: <u>1413 MS</u>	and <u>—</u>	
Dissolved Oxygen Meter:	Model <u>—</u>	Serial No. <u>—</u>	<u>NOT</u> calibrated for TDS		
Turbidity Meter:	Model <u>HANNA</u>	Serial No. <u>H198703</u>			
Pump:	<input checked="" type="checkbox"/> none	<input type="checkbox"/> Waterra	<input type="checkbox"/> Peristaltic	<input type="checkbox"/> Submersible	
Bailer:	<input type="checkbox"/> none	<input type="checkbox"/> Stainless Steel	<input type="checkbox"/> Teflon	<input checked="" type="checkbox"/> PVC	
Filter:	<input checked="" type="checkbox"/> none	<input type="checkbox"/> Waterra in-line	<input type="checkbox"/> Vacuum (disposal)	<input type="checkbox"/> Vacuum (re-usable)	

WELL DEVELOPMENT/PURGING							
Purge volume: Well vol x	<u>3</u>	volumes =	<u>16.32</u>	litres	Method: <u>Bailer</u>		
Flow Rate	<u>—</u>	L/min	Volume: <u>160L</u>		Start: <u>12:38</u>	Finish: <u>1:30</u>	
TIME	VOLUME REMOVED (L)	ODOR/FOAM (PPM)	TEMP (oC)	pH (UNITS)	COND. (uS/cm)	TURBIDITY (NTU)	REMARKS (colour, odour, sheen, brittle film, etc.)
12:39	1L	79	0.0	7.70	142	LLD	12.57 Slightly turbid
12:51	1L (2)						12.59
12:55	3L (5)						12.67
12:58	1L (6)	146	4.9	7.45	266	—	Turbid, brownish
1:07	1L (7)						12.57m
1:12	4L (11)	140	5.7	7.68	259	—	12.77m
1:28	5L (16)	180	7.4	7.69	266	—	Turbid, brownish

Comments (Recovery rate, etc.): Forgot to remove the probebar on the probe; invalid field 108

SAMPLING	Water Odour: <input checked="" type="checkbox"/> no <input type="checkbox"/> yes (describe) _____	Sheen: <input checked="" type="checkbox"/> no <input type="checkbox"/> yes (describe) _____
Turbidity: _____ NTU	Clear: 1 2 3 4 5 6 7 8 9 10	Very Silty
or 1–10 relative scale (circle as appropriate):		
Other: _____		
NAPL Information (odour, colour, etc.): _____		

BOTTLE	Size:	40ml	100mL	250mL	500mL	1L	2L	4L	Filtered	Preservatives
		9	—	—	—	—	—	—	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>BTEX</u>	
1	<input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Glass	—	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
2	<input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Glass	—	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
3	<input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass	—	1	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>MIMO</u>	
4	<input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass	—	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
5	<input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass	—	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
6	<input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass	—	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	
7	<input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass	—	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>HCl</u>	
8	<input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass	—	—	—	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>—</u>	

CHAMPAGNE

Groundwater Development and Purging/Sampling Sheet

WELL NO.: MW04
LOCATION: CHAMPAGNE LANDFILL
WEATHER: Sunny
TEMPERATURE: -6°

JOB NO.: WZ3101317
COMPLETED BY: Eiane Ron
DATE: NOV. 9, 2010
TIME: 9:20 AM

MONITORING WELL INFORMATION

One well volume:

Depth to Water Below Top of Casing: A 13.20 (metres) (B-A)*2.0 = 8.20 litres -for a 51mm (2.0 inch) diameter well
 Depth to Bottom of Well Below Top of Casing: B 17.80 (metres) (B-A)*1.1 = — litres -for a 38mm (1.5 inch) diameter well
 Diameter Standpipe: C 51 (mm) Product Thickness: — (by probe or paste?)

EQUIPMENT LIST

pH and Temp. Meter: Model Hanna Serial No. 41991300 Calibration Buffers: 4 7 10
 Conductivity Meter: Model " Serial No. " Calibration Solutions: 1413 μS and 1382 ppm
 Dissolved Oxygen Meter: Model — Serial No. —
 Turbidity Meter: Model Hanna Serial No. H192703
 Pump: none Waterna Peristaltic Submersible
 Bailer: none Stainless Steel Teflon PVC
 Filter: none Waterna in-line Vacuum (disposal) Vacuum (re-usable)

WELL DEVELOPMENT/PURGING

Purge volume: Well vol x 3 volumes = 24.60 litres Method: hand boil
Flow Rate _____ L/min Volume: 24.5L Start: 10:45 Finish: 11:28

Comments (Recovery rate, etc.): Never purged dry in spite of slow recovery

SAMPLING Water Odour: no yes (describe) _____ Sheen no yes (describe) _____
Turbidity: _____ NTU Clear: 1 2 3 4 5 6 7 8 9 10 Very Silty

or 1 – 10 relative scale (circle as appropriate):

Other: Cast iron (old segments) - 200 kg.

Commons of all members, where open

NAPL Information (odour, colour, etc.)

[View Details](#) | [Edit](#) | [Delete](#)

BOTTLE Size: 40ml 100ml 250ml 500ml 1l 2l 4l Filtered Preservatives

1 Plastic Glass 9 30ml 30ml ZOOMLE ZOOMLE 1L 2L 4L Filtered Preservatives

Plastic Glass L Yes No **BTEX**

Plastic Glass

Plastic Glass _____

3 Plastic Glass _____ Yes No *MICRO*

Plastic Glass ? Yes No

Plastic Glass Metal Wood Yes No

5 Plastic Glass — — — — — — — Yes No ✓✓

Plastic Glass Yes No

Plastic Glass — — — Yes No A₂SO₄

Plastic Glass _____ Yes No _____

APPENDIX F

APPENDIX F LABORATORY ANALYTICAL RESULTS

Report Transmission Cover Page

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Contact & Affiliation	Address	Delivery Commitments
Adam Seeley	Unit 6, 151 Industrial Road	On [Lot Verification] send
EBA Engineering Consultants Ltd -	Whitehorse, Yukon Territory Y1A 2V3	(COA) by Email - Merge Reports
	Phone: (867) 668-3068	On [Report Approval] send
	Fax: (867) 668-4349	(Test Report) by Email - Multiple Reports
	Email: aseeley@eba.ca	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 - Multiple Reports
		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 - Multiple Reports
		On [Lot Approval and Final Test Report Approval] send
		(Invoice) by Email - Merge Reports

Notes To Clients:

- Temperature of samples on arrival was 4°C.
- The 1L amber container for sample CH-MW04 was received broken. LEPH/HEPH/PAH could not be analyzed.
- Report was re-issued to correct the tellurium result on 773805-5 previously reported as 2.1 ug/L on Test Report 1385519. Report 1404435 replaces report 1385519.
- Sample 773805-5: the repeated result for tellurium analysis differs significantly from the original. The cause of the difference is matrix interference.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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Sample Custody

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Sample Disposal Date: February 17, 2011

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: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

	Reference Number	773805-1	773805-2	773805-3	
	Sample Date	Nov 09, 2010	Nov 09, 2010	Nov 09, 2010	
	Sample Time	NA	NA	NA	
	Sample Location	Champagne	Champagne	Champagne	
	Sample Description	CH - MW01	CH - MW02	CH - MW03	
Analyte	Matrix	Water	Water	Water	
					Nominal Detection Limit
Aggregate Organic Constituents					
Chemical Oxygen Demand	mg O ₂ /L	254	443	296	5
Inorganic Nonmetallic Parameters					
Ammonium - N	mg/L	<0.05	0.19	0.10	0.05
Kjeldahl Nitrogen	Total	mg/L	1.9	2.5	0.06
Phosphorus	Total	mg/L	13.8	29.0	0.05
Orthophosphate-P	Dissolved	mg/L	0.06	0.06	0.01
Organic Carbon	Dissolved Nonpurgeable	mg/L	1.9	3.4	0.5
Metals Dissolved					
Sulfur	Dissolved	mg/L	18.4	14.7	0.2
Microbiological Analysis					
Fecal Coliforms	Membrane Filtration	CFU/100 mL	<1	<1	1
Physical and Aggregate Properties					
Solids	Total Dissolved	mg/L	312	278	5
Routine Water					
Nitrate - N		mg/L	<0.01	<0.01	0.01
Nitrite - N		mg/L	<0.005	<0.005	0.005
Nitrate and Nitrite - N		mg/L	<0.01	<0.01	0.01
pH	at 25 °C		7.98	8.04	7.85
Calcium	Dissolved	mg/L	52.8	40.5	51.1
Magnesium	Dissolved	mg/L	22.5	18.7	19.6
Phosphorus	Dissolved	mg/L	0.01	0.03	0.02
Potassium	Dissolved	mg/L	7.5	4.8	5.7
Silicon	Dissolved	mg/L	4.30	5.24	4.46
Sodium	Dissolved	mg/L	14.4	8.2	8.2
Bicarbonate		mg/L	260	200	210
Carbonate		mg/L	<6	<6	6
Hydroxide		mg/L	<5	<5	5
T-Alkalinity	as CaCO ₃	mg/L	215	165	172
Chloride	Dissolved	mg/L	2.71	2.24	2.34
Sulfate (SO ₄)	Dissolved	mg/L	57.1	48.0	65.4
Hardness	as CaCO ₃	mg/L	224	178	208
Salinity	Dissolved	g/L	0.0364	0.021	0.020
Volatile Petroleum Hydrocarbons - Water					
VHw6-10		ug/L	<50	<50	50
VPHw (VHw6-10 minus BTEX)		ug/L	<50	<50	50

Analytical Report

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID:	W23101317
	Unit 6, 151 Industrial Road	Name:	Monitoring Well Program
	Whitehorse, YT, Canada	Location:	Champagne
	Y1A 2V3	LSD:	
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Reference Number	773805-1	773805-2	773805-3
Sample Date	Nov 09, 2010	Nov 09, 2010	Nov 09, 2010
Sample Time	NA	NA	NA
Sample Location	Champagne	Champagne	Champagne
Sample Description	CH - MW01	CH - MW02	CH - MW03
Matrix	Water	Water	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Extractable Petroleum Hydrocarbons - Water					
LEPHw	ug/L	<100	<100	<100	100
HEPHw	ug/L	<100	<100	<100	100
Polycyclic Aromatic Hydrocarbons - Water					
Acenaphthene	ug/L	<0.1	<0.1	<0.1	0.1
Acenaphthylene	ug/L	<0.1	<0.1	<0.1	0.1
Acridine	ug/L	<0.05	<0.05	<0.05	0.05
Anthracene	ug/L	<0.1	<0.1	<0.1	0.1
Benzo(a)anthracene	ug/L	<0.01	<0.01	<0.01	0.01
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01
Benzo(b)fluoranthene	ug/L	<0.01	<0.01	<0.01	0.01
Benzo(g,h,i)perylene	ug/L	<0.1	<0.1	<0.1	0.1
Benzo(k)fluoranthene	ug/L	<0.02	<0.02	<0.02	0.02
Chrysene	ug/L	<0.1	<0.1	<0.1	0.1
Dibenzo(a,h)anthracene	ug/L	<0.01	<0.01	<0.01	0.01
Fluoranthene	ug/L	<0.1	<0.1	<0.1	0.1
Fluorene	ug/L	<0.1	<0.1	<0.1	0.1
Indeno(1,2,3-c,d)pyrene	ug/L	<0.1	<0.1	<0.1	0.1
Naphthalene	ug/L	<0.1	<0.1	<0.1	0.1
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1
Pyrene	ug/L	<0.02	<0.02	<0.02	0.02
Quinoline	ug/L	<3.4	<3.4	<3.4	3.4
PAH - Water - Surrogate Recovery					
2-Fluorobiphenyl	PAH - Surrogate	%	70	84	88
Nitrobenzene-d5	PAH - Surrogate	%	79	101	108
p-Terphenyl-d14	PAH - Surrogate	%	85	84	82
VOC Screen - Water					
Benzene	ug/L	<1	<1	<1	1
Bromodichloromethane	ug/L	<1	<1	<1	1
Bromoform	ug/L	<1	<1	<1	1
Bromomethane	ug/L	<10	<10	<10	10
Carbon Tetrachloride	ug/L	<1	<1	<1	1
Chlorobenzene	ug/L	<1	<1	<1	1
Chloroethane	ug/L	<10	<10	<10	10
2-Chloroethyl Vinyl Ether	ug/L	<1	<1	<1	1
Chloroform	ug/L	<1	<1	<1	1
Chloromethane	ug/L	<10	<10	<10	10

Analytical Report

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Reference Number	773805-1	773805-2	773805-3
Sample Date	Nov 09, 2010	Nov 09, 2010	Nov 09, 2010
Sample Time	NA	NA	NA
Sample Location	Champagne	Champagne	Champagne
Sample Description	CH - MW01	CH - MW02	CH - MW03
Matrix	Water	Water	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
VOC Screen - Water - Continued					
Dibromochloromethane	ug/L	<1	<1	<1	1
1,2-Dichlorobenzene	ug/L	<1	<1	<1	1
1,3-Dichlorobenzene	ug/L	<1	<1	<1	1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	1
1,1-Dichloroethane	ug/L	<1	<1	<1	1
1,2-Dichloroethane	ug/L	<1	<1	<1	1
1,1-Dichloroethene	ug/L	<1	<1	<1	1
1,2-Dichloroethene(cis)	ug/L	<1	<1	<1	1
1,2-Dichloroethene(trans)	ug/L	<1	<1	<1	1
1,2-Dichloropropane	ug/L	<1	<1	<1	1
1,3-Dichloropropene(cis)	ug/L	<1	<1	<1	1
1,3-Dichloropropene(trans)	ug/L	<1	<1	<1	1
Ethylbenzene	ug/L	<1	<1	<1	1
Methylene Chloride	ug/L	<5	<5	<5	5
Styrene	ug/L	<1	<1	<1	1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	1
Tetrachloroethene	ug/L	<1	<1	<1	1
Toluene	ug/L	<1	<1	<1	1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	1
Trichloroethene	ug/L	<1	<1	<1	1
Trichlorofluoromethane	ug/L	<1	<1	<1	1
Vinyl Chloride	ug/L	<2	<2	<2	2
Xylene-m&p	ug/L	<1	<1	<1	1
Xylene-o	ug/L	<1	<1	<1	1
Total Xylenes (m,p,o)	ug/L	<1	<1	<1	1
VOC - Water - Surrogate Recovery					
Dibromofluoromethane	EPA Surrogate	%	106	111	113
Toluene-d8	EPA Surrogate	%	98	104	100
Bromofluorobenzene	EPA Surrogate	%	111	113	112
Trace Metals Dissolved					
Aluminum	Dissolved	µg/L	19	66	20
Antimony	Dissolved	µg/L	2.7	2.2	1.3
Arsenic	Dissolved	µg/L	1.0	3.3	1.2
Barium	Dissolved	µg/L	45	62	63
Beryllium	Dissolved	µg/L	<0.04	<0.04	<0.04

Analytical Report

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Reference Number	773805-1	773805-2	773805-3
Sample Date	Nov 09, 2010	Nov 09, 2010	Nov 09, 2010
Sample Time	NA	NA	NA
Sample Location	Champagne	Champagne	Champagne
Sample Description	CH - MW01	CH - MW02	CH - MW03
Matrix	Water	Water	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Trace Metals Dissolved - Continued					
Bismuth	µg/L	<1	<1	<1	1
Boron	µg/L	28	18	16	4
Cadmium	µg/L	0.08	0.05	0.03	0.01
Chromium	µg/L	0.5	0.5	0.6	0.4
Cobalt	µg/L	0.83	0.47	0.80	0.02
Copper	µg/L	<1	1	<1	1
Iron	µg/L	8	153	9	10
Lead	µg/L	<0.1	<0.1	<0.1	0.1
Lithium	µg/L	9	3	5	1
Manganese	µg/L	192	120	307	5
Mercury	Total Dissolved	ug/L	<0.01	<0.01	0.01
Molybdenum	Dissolved	µg/L	33.9	23.1	0.1
Nickel	Dissolved	µg/L	4	3	1
Selenium	Dissolved	µg/L	0.9	<0.6	0.6
Silver	Dissolved	µg/L	<0.01	<0.01	0.01
Strontium	Dissolved	µg/L	300	359	1.0
Tellurium	Dissolved	µg/L	<0.1	<0.1	0.1
Thallium	Dissolved	µg/L	<0.01	<0.01	0.01
Thorium	Dissolved	µg/L	<0.4	<0.4	0.4
Tin	Dissolved	µg/L	0.3	0.2	0.1
Titanium	Dissolved	µg/L	0.7	11.0	0.4
Uranium	Dissolved	µg/L	24.2	9.0	0.4
Vanadium	Dissolved	µg/L	0.6	2.2	0.1
Zinc	Dissolved	µg/L	3	2	1
Zirconium	Dissolved	µg/L	0.6	0.5	0.1

Analytical Report

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Reference Number	773805-4
Sample Date	Nov 09, 2010
Sample Time	NA
Sample Location	Champagne
Sample Description	CH - MW04
Matrix	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Aggregate Organic Constituents					
Chemical Oxygen Demand	mg O ₂ /L	216			5
Microbiological Analysis					
Fecal Coliforms	Membrane Filtration	CFU/100 mL	<1		1
Physical and Aggregate Properties					
Solids	Total Dissolved	mg/L	260		5
VOC Screen - Water					
Benzene	ug/L	<1			1
Bromodichloromethane	ug/L	<1			1
Bromoform	ug/L	<1			1
Bromomethane	ug/L	<10			10
Carbon Tetrachloride	ug/L	<1			1
Chlorobenzene	ug/L	<1			1
Chloroethane	ug/L	<10			10
2-Chloroethyl Vinyl Ether	ug/L	<1			1
Chloroform	ug/L	<1			1
Chloromethane	ug/L	<10			10
Dibromochloromethane	ug/L	<1			1
1,2-Dichlorobenzene	ug/L	<1			1
1,3-Dichlorobenzene	ug/L	<1			1
1,4-Dichlorobenzene	ug/L	<1			1
1,1-Dichloroethane	ug/L	<1			1
1,2-Dichloroethane	ug/L	<1			1
1,1-Dichloroethene	ug/L	<1			1
1,2-Dichloroethene(cis)	ug/L	<1			1
1,2-Dichloroethene(trans)	ug/L	<1			1
1,2-Dichloropropane	ug/L	<1			1
1,3-Dichloropropene(cis)	ug/L	<1			1
1,3-Dichloropropene(trans)	ug/L	<1			1
Ethylbenzene	ug/L	<1			1
Methylene Chloride	ug/L	<5			5
Styrene	ug/L	<1			1
1,1,2,2-Tetrachloroethane	ug/L	<1			1
Tetrachloroethene	ug/L	<1			1
Toluene	ug/L	<1			1
1,1,1-Trichloroethane	ug/L	<1			1
1,1,2-Trichloroethane	ug/L	<1			1

Analytical Report

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Reference Number	773805-4
Sample Date	Nov 09, 2010
Sample Time	NA
Sample Location	Champagne
Sample Description	CH - MW04
Matrix	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
VOC Screen - Water - Continued					
Trichloroethene	ug/L	<1			1
Trichlorofluoromethane	ug/L	<1			1
Vinyl Chloride	ug/L	<2			2
Xylene-m&p	ug/L	<1			1
Xylene-o	ug/L	<1			1
Total Xylenes (m,p,o)	ug/L	<1			1
VOC - Water - Surrogate Recovery					
Dibromofluoromethane	EPA Surrogate	%	111		86-118
Toluene-d8	EPA Surrogate	%	98		85-115
Bromofluorobenzene	EPA Surrogate	%	111		86-115

Analytical Report

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Reference Number	773805-4	773805-5
Sample Date	Nov 09, 2010	Nov 09, 2010
Sample Time	NA	NA
Sample Location	Champagne	Champagne
Sample Description	CH - MW04	Duplicate CH - MW03 Water
Matrix	Water	

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Ammonium - N	mg/L	0.19			0.05
Kjeldahl Nitrogen	Total	mg/L	4.9		0.06
Phosphorus	Total	mg/L	21.4		0.05
Orthophosphate-P	Dissolved	mg/L	0.06		0.01
Organic Carbon	Dissolved Nonpurgeable	mg/L	4.3		0.5
Ammonia - N		mg/L		0.08	
Nitrate - N		mg/L		0.01	0.01
Metals Dissolved					
Sulfur	Dissolved	mg/L	14.2	20.2	0.2
Routine Water					
Nitrate - N		mg/L	<0.01		0.01
Nitrite - N		mg/L	<0.005		0.005
Nitrate and Nitrite - N		mg/L	<0.01		0.01
pH	at 25 °C		8.09	7.94	
Calcium	Dissolved	mg/L	42.4	50.9	0.1
Magnesium	Dissolved	mg/L	19.5	19.6	0.1
Phosphorus	Dissolved	mg/L	0.02	0.02	0.01
Potassium	Dissolved	mg/L	4.1	5.6	0.1
Silicon	Dissolved	mg/L	5.13	4.47	0.05
Sodium	Dissolved	mg/L	9.4	8.1	0.1
Bicarbonate		mg/L	210		5
Carbonate		mg/L	<6		6
Hydroxide		mg/L	<5		5
T-Alkalinity	as CaCO ₃	mg/L	173		5
Chloride	Dissolved	mg/L	2.31		0.05
Sulfate (SO ₄)	Dissolved	mg/L	39.9		1
Hardness	as CaCO ₃	mg/L	186	208	5
Salinity	Dissolved	g/L	0.024	0.020	0.0001
Volatile Petroleum Hydrocarbons - Water					
VHw6-10		ug/L	<50	<50	50
VPHw (VHw6-10 minus BTEX)		ug/L	<50	<50	50
Trace Metals Dissolved					
Aluminum	Dissolved	ug/L	20	8	5
Antimony	Dissolved	ug/L	1.9	1.1	0.2
Arsenic	Dissolved	ug/L	4.0	0.9	0.2

Analytical Report

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Reference Number	773805-4	773805-5
Sample Date	Nov 09, 2010	Nov 09, 2010
Sample Time	NA	NA
Sample Location	Champagne	Champagne
Sample Description	CH - MW04	Duplicate CH - MW03 Water
Matrix	Water	

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Trace Metals Dissolved - Continued					
Barium	Dissolved	µg/L	92	62	1
Beryllium	Dissolved	µg/L	<0.04	<0.04	0.04
Bismuth	Dissolved	µg/L	<1	<1	1
Boron	Dissolved	µg/L	20	12	4
Cadmium	Dissolved	µg/L	0.02	0.03	0.01
Chromium	Dissolved	µg/L	<0.4	0.6	0.4
Cobalt	Dissolved	µg/L	0.71	0.75	0.02
Copper	Dissolved	µg/L	<1	<1	1
Iron	Dissolved	ug/L	35	7	10
Lead	Dissolved	µg/L	<0.1	<0.1	0.1
Lithium	Dissolved	µg/L	2	5	1
Manganese	Dissolved	ug/L	211	294	5
Mercury	Total Dissolved	ug/L	<0.01	<0.01	0.01
Molybdenum	Dissolved	µg/L	21.0	20.6	0.1
Nickel	Dissolved	µg/L	4	5	1
Selenium	Dissolved	µg/L	<0.6	0.9	0.6
Silver	Dissolved	µg/L	<0.01	<0.01	0.01
Strontium	Dissolved	µg/L	377	319	1.0
Tellurium	Dissolved	µg/L	<0.1	<0.1	0.1
Thallium	Dissolved	µg/L	<0.01	0.01	0.01
Thorium	Dissolved	µg/L	<0.4	<0.4	0.4
Tin	Dissolved	µg/L	<0.1	<0.1	0.1
Titanium	Dissolved	µg/L	1.9	<0.4	0.4
Uranium	Dissolved	µg/L	9.9	10.2	0.4
Vanadium	Dissolved	µg/L	0.9	0.8	0.1
Zinc	Dissolved	µg/L	2	1	1
Zirconium	Dissolved	µg/L	0.3	0.4	0.1

Approved by:

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Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Aggregate Organic Constituents

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC	
Chemical Oxygen Demand	mg/L	-0.937	-7	8		yes
Date Acquired:	November 15, 2010					
Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Chemical Oxygen Demand	mg O ₂ /L	47	48	10	2	yes
Date Acquired:	November 15, 2010					
Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC	
Chemical Oxygen Demand	mg O ₂ /L	310	286	322		yes
Date Acquired:	November 15, 2010					
Chemical Oxygen Demand	mg O ₂ /L	73	68	86		yes
Date Acquired:	November 15, 2010					
Chemical Oxygen Demand	mg O ₂ /L	20	16	24		yes
Date Acquired:	November 15, 2010					

Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC	
Ammonium - N	ug/L	-90.69	-110.00	10.00		yes
Date Acquired:	November 12, 2010					
Ammonium - N	mg/L	0	-0.05	0.05		yes
Nitrogen	mg/L	0.02002	-0.06	0.06		yes
Phosphorus	mg/L	0.007	-0.05	0.05		yes
Orthophosphate-P	mg/L	0.005	-0.05	0.05		yes
Organic Carbon	mg/L	0.33	-0.5	0.5		yes
Date Acquired:	November 15, 2010					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC	
Ammonium - N	ug/L	102.32	85	115		yes
Date Acquired:	November 12, 2010					
Ammonium - N	ug/L	105.06	70	130		yes
Date Acquired:	November 12, 2010					
Nitrite - N	mg/L	106.67	90	110		yes
Nitrate and Nitrite - N	mg/L	93.75	90	110		yes
Date Acquired:	November 12, 2010					

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Ammonia - N	mg/L	0.6		0.00	0.00	yes
Ammonium - N	mg/L	0.70	0.62	0.52	0.72	yes
Nitrate - N	mg/L	0.66	0.65	0.55	0.75	yes
Nitrate and Nitrite - N	mg/L	0.66	0.65	0.55	0.75	yes
Date Acquired:	November 12, 2010					

Quality Control

Bill To:	EBA Engineering Consultants	Project:		Lot ID:	773805
Report To:	EBA Engineering Consultants	ID:	W23101317	Control Number:	A200884
	Unit 6, 151 Industrial Road	Name:	Monitoring Well Program	Date Received:	Nov 10, 2010
	Whitehorse, YT, Canada	Location:	Champagne	Date Reported:	Jan 27, 2011
	Y1A 2V3	LSD:		Report Number:	1404435
Attn:	Adam Seeley	P.O.:			
Sampled By:	Eliane & Kristen	Acct code:			
Company:	EBA				

Inorganic Nonmetallic Parameters -

Continued

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Nitrate - N	mg/L	<0.01	0.00	-0.15	0.15	yes
Nitrite - N	mg/L	1.23	1.192	1.040	1.340	yes
Nitrate and Nitrite - N	mg/L	1.07	1.19	0.89	1.49	yes

Date Acquired: November 12, 2010

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Ammonium - N	mg/L	2.42	2.46	10	0.10	yes
Nitrogen	mg/L	7.56	7.89	10	0.06	yes
Phosphorus	mg/L	0.79	0.79	10	0.20	yes
Orthophosphate-P	mg/L	0.10	0.10	10	0.05	yes
Organic Carbon	mg/L	4.2	4.2	10	1.0	yes

Date Acquired: November 15, 2010

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Ammonia - N	mg/L	17	18	20	0.50	yes
Nitrate - N	mg/L	0.01	0.01	15	0.05	yes
Nitrite - N	mg/L	<0.005	<0.005	10	0.030	yes
Nitrate and Nitrite - N	mg/L	0.01	0.01	10	0.05	yes

Date Acquired: November 12, 2010

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Nitrate - N	mg/L	<0.01	-0.01	0.02	yes
Nitrite - N	mg/L	<0.005	-0.004	0.006	yes
Nitrate and Nitrite - N	mg/L	<0.01	0.00	0.01	yes

Date Acquired: November 12, 2010

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	3.00	2.77	3.19	yes
Nitrogen	mg/L	129	103.98	137.82	yes
Phosphorus	mg/L	7.98	7.64	8.36	yes
Organic Carbon	mg/L	112	102.8	128.8	yes

Date Acquired: November 15, 2010

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	0.82	0.73	0.85	yes
Nitrogen	mg/L	16.1	12.99	16.41	yes
Phosphorus	mg/L	2.03	1.92	2.16	yes
Orthophosphate-P	mg/L	0.41	0.37	0.42	yes
Organic Carbon	mg/L	15.2	13.3	16.7	yes

Date Acquired: November 15, 2010

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Nitrogen	mg/L	1.14	0.81	1.23	yes
Orthophosphate-P	mg/L	0.07	0.07	0.09	yes
Organic Carbon	mg/L	3.3	2.5	3.8	yes

Date Acquired: November 15, 2010

Metals Dissolved

Quality Control

Bill To:	EBA Engineering Consultants	Project:		Lot ID:	773805
Report To:	EBA Engineering Consultants	ID:	W23101317	Control Number:	A200884
	Unit 6, 151 Industrial Road	Name:	Monitoring Well Program	Date Received:	Nov 10, 2010
	Whitehorse, YT, Canada	Location:	Champagne	Date Reported:	Jan 27, 2011
	Y1A 2V3	LSD:		Report Number:	1404435
Attn:	Adam Seeley	P.O.:			
Sampled By:	Eliane & Kristen	Acct code:			
Company:	EBA				

Metals Dissolved

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Aluminum	mg/L	0.134	0.060	0.090	0.130	yes
Antimony	mg/L	0.0132	0.0150	0.0110	0.0190	yes
Arsenic	mg/L	0.0104	0.0109	0.0089	0.0131	yes
Barium	mg/L	0.068	0.070	0.063	0.077	yes
Beryllium	mg/L	0.0129	0.01200	0.01029	0.01371	yes
Boron	mg/L	0.065	0.075	0.050	0.110	yes
Cadmium	mg/L	0.01740	0.01790	0.01533	0.02067	yes
Chromium	mg/L	0.0668	0.0677	0.0563	0.0797	yes
Cobalt	mg/L	0.0800	0.07980	0.07010	0.08990	yes
Copper	mg/L	0.065	0.065	0.060	0.070	yes
Lead	mg/L	0.0553	0.0531	0.0451	0.0610	yes
Molybdenum	mg/L	0.0718	0.07390	0.06161	0.08639	yes
Nickel	mg/L	0.064	0.063	0.057	0.069	yes
Selenium	mg/L	0.0174	0.0190	0.0147	0.0234	yes
Silver	mg/L	0.01240	0.01250	0.01041	0.01359	yes
Strontium	mg/L	0.041	0.043	0.037	0.049	yes
Thallium	mg/L	0.01020	0.00996	-0.01370	0.03370	yes
Vanadium	mg/L	0.0530	0.05390	0.04740	0.06060	yes
Zinc	mg/L	0.063	0.067	0.059	0.075	yes

Date Acquired: November 12, 2010

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Sulfur	mg/L	18.4	18.6	30	3.0	yes

Date Acquired: November 12, 2010

Physical and Aggregate Properties

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Solids	mg/L	634	632	30	25	yes

Date Acquired: November 12, 2010

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Solids	mg/L	570	471	619	yes
Date Acquired:	November 12, 2010				
Solids	mg/L	26	19	34	yes
Date Acquired:	November 12, 2010				
Solids	mg/L	<5	-5	5	yes
Date Acquired:	November 12, 2010				

Routine Water

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	0.0442	-0.05	0.05	yes

Quality Control

Bill To:	EBA Engineering Consultants	Project:		Lot ID:	773805
Report To:	EBA Engineering Consultants	ID:	W23101317	Control Number:	A200884
	Unit 6, 151 Industrial Road	Name:	Monitoring Well Program	Date Received:	Nov 10, 2010
	Whitehorse, YT, Canada	Location:	Champagne	Date Reported:	Jan 27, 2011
	Y1A 2V3	LSD:		Report Number:	1404435
Attn:	Adam Seeley	P.O.:			
Sampled By:	Eliane & Kristen	Acct code:			
Company:	EBA				

Routine Water - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Iron	mg/L	0.0028	-0.031	0.029	yes
Magnesium	mg/L	-0.0031	-0.05	0.07	yes
Manganese	mg/L	-0.0065	-0.008	-0.000	yes
Phosphorus	mg/L	-0.0042	-0.04	0.04	yes
Potassium	mg/L	0.0196	-0.4	0.4	yes
Silicon	mg/L	-0.0116	-0.20	0.25	yes
Sodium	mg/L	-0.003	-0.2	0.2	yes
Date Acquired: November 12, 2010					
Calcium	mg/L	0.0249	-0.13	0.16	yes
Iron	mg/L	0.0145	-0.024	0.025	yes
Magnesium	mg/L	0.0027	-0.07	0.08	yes
Manganese	mg/L	-0.0058	-0.009	0.002	yes
Phosphorus	mg/L	-0.0023	-0.14	0.16	yes
Potassium	mg/L	0.0082	-0.8	0.8	yes
Silicon	mg/L	-0.0075	-1.76	2.02	yes
Sodium	mg/L	-0.0101	-0.3	0.4	yes
Date Acquired: November 12, 2010					
Nitrate - N	mg/L	0	-0.01	0.01	yes
Nitrite - N	mg/L	0	-0.005	0.005	yes
Date Acquired: November 15, 2010					
Chloride	mg/L	0	-0.20	0.20	yes
Sulfate (SO4)	mg/L	1.06457	-0.99	0.99	yes
Date Acquired: November 10, 2010					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
pH	pH	100.07	98	101	yes
Date Acquired: November 10, 2010					
Calcium	mg/L	99.95	91	109	yes
Iron	mg/L	79.30	0	0	yes
Magnesium	mg/L	98.10	91	109	yes
Manganese	mg/L	102.10	90	110	yes
Phosphorus	mg/L	109.18	90	110	yes
Potassium	mg/L	102.04	85	115	yes
Silicon	mg/L	103.38	80	120	yes
Sodium	mg/L	101.59	90	110	yes
Date Acquired: November 12, 2010					
Chloride	mg/L	101.91	85	115	yes
Sulfate (SO4)	mg/L	97.64	85	115	yes
Date Acquired: November 10, 2010					
Chloride	mg/L	96.04	90	110	yes
Sulfate (SO4)	mg/L	99.60	90	110	yes

Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Routine Water - Continued

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC	
Date Acquired: November 10, 2010						
Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
T-Alkalinity	mg/L	10	10	8	11	yes
Date Acquired: November 10, 2010						
Calcium	mg/L	14.6	14.85	11.55	18.25	yes
Magnesium	mg/L	8.9	9.07	6.88	11.26	yes
Manganese	mg/L	0.077	0.078	0.072	0.084	yes
Potassium	mg/L	8.6	8.6	6.4	10.8	yes
Sodium	mg/L	14.0	14.2	11.7	16.7	yes
Date Acquired: November 12, 2010						
Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Nitrate - N	mg/L	0.20	0.20	10	0.01	yes
Nitrite - N	mg/L	<0.02	<0.02	10	0.010	yes
Date Acquired: November 15, 2010						
Calcium	mg/L	52.8	52.7	30	1.00	yes
Iron	mg/L	0.008	0.009	30	0.060	yes
Magnesium	mg/L	22.5	22.5	30	1.00	yes
Manganese	mg/L	0.192	0.192	30	0.015	yes
Phosphorus	mg/L	0.01	0.02	30	0.10	yes
Potassium	mg/L	7.5	7.6	30	1.0	yes
Silicon	mg/L	4.30	4.32	30	0.15	yes
Sodium	mg/L	14.4	14.3	30	1.0	yes
Date Acquired: November 12, 2010						
pH		7.82	7.79	2		yes
Electrical Conductivity	dS/m at 25 C	0.582	0.587	10	0.005	yes
Bicarbonate	mg/L	40	40	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	36	36	10	5	yes
Chloride	mg/L	6.85	6.82	15	0.25	yes
Sulfate (SO4)	mg/L	83.2	84.2	15	0.50	yes
Date Acquired: November 10, 2010						
Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Chloride	mg/L	0.72	0.68	6	0.01	yes
Sulfate (SO4)	mg/L	4.32	4.26	6	0.01	yes
Date Acquired: November 10, 2010						
Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC	

Quality Control

Bill To:	EBA Engineering Consultants	Project:		Lot ID:	773805
Report To:	EBA Engineering Consultants	ID:	W23101317	Control Number:	A200884
	Unit 6, 151 Industrial Road	Name:	Monitoring Well Program	Date Received:	Nov 10, 2010
	Whitehorse, YT, Canada	Location:	Champagne	Date Reported:	Jan 27, 2011
	Y1A 2V3	LSD:		Report Number:	1404435
Attn:	Adam Seeley	P.O.:			
Sampled By:	Eliane & Kristen	Acct code:			
Company:	EBA				

Routine Water - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
pH		10.1	9.08	10.92	yes
Electrical Conductivity	µS/cm at 25 C	211	165	243	yes
P-Alkalinity	mg/L	34	9	53	yes
T-Alkalinity	mg/L	97	90	101	yes
Date Acquired:	November 10, 2010				
Electrical Conductivity	µS/cm at 25 C	1400	1330	1510	yes
Date Acquired:	November 10, 2010				
Electrical Conductivity	µS/cm at 25 C	<1	-2	2	yes
Date Acquired:	November 10, 2010				
Nitrate - N	mg/L	10.2	9.51	10.49	yes
Nitrite - N	mg/L	9.85	9.510	10.530	yes
Nitrate and Nitrite - N	mg/L	20.0	18.09	22.11	yes
Date Acquired:	November 15, 2010				
Nitrate - N	mg/L	0.51	0.45	0.55	yes
Nitrite - N	mg/L	0.485	0.452	0.548	yes
Nitrate and Nitrite - N	mg/L	1.00	0.79	1.19	yes
Date Acquired:	November 15, 2010				

Extractable Petroleum Hydrocarbons -

Water		Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC	
		EPHw10-19	ug/mL	74.72	-100	100	yes	
		EPHw19-32	ug/mL	51.68	-100	100	yes	
Date Acquired:		November 14, 2010						
Calibration Check		Units	% Recovery	Lower Limit	Upper Limit	Passed QC		
		EPHw10-19	ug/mL	100.71	85	115	yes	
		EPHw19-32	ug/mL	100.71	85	115	yes	
Date Acquired:		November 14, 2010						
Replicates		Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC	
		EPHw10-19	ug/L	400	400	60	500	yes
		EPHw19-32	ug/L	400	400	60	500	yes
Date Acquired:		November 14, 2010						
Matrix Spike		Units	% Recovery	Lower Limit	Upper Limit	Passed QC		
		EPHw10-19	ug/L	90	79	128	yes	
		EPHw19-32	ug/L	90	81	136	yes	
Date Acquired:		November 14, 2010						

Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Polycyclic Aromatic Hydrocarbons -

Water

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Acenaphthene	ng/mL	0	-0.1	0.1	yes
Acenaphthylene	ng/mL	0	-0.1	0.1	yes
Acridine	ng/mL	0	-0.05	0.05	yes
Anthracene	ng/mL	0	-0.1	0.1	yes
Benzo(a)anthracene	ng/mL	0	-0.01	0.01	yes
Benzo(a)pyrene	ng/mL	0	-0.01	0.01	yes
Benzo(b)fluoranthene	ng/mL	0	-0.01	0.01	yes
Benzo(g,h,i)perylene	ng/mL	0	-0.1	0.1	yes
Benzo(k)fluoranthene	ng/mL	0	-0.01	0.01	yes
Chrysene	ng/mL	0	-0.1	0.1	yes
Dibenzo(a,h)anthracene	ng/mL	0	-0.01	0.01	yes
Fluoranthene	ng/mL	0	-0.1	0.1	yes
Fluorene	ng/mL	0	-0.1	0.1	yes
Indeno(1,2,3-c,d)pyrene	ng/mL	0	-0.1	0.1	yes
Naphthalene	ng/mL	0	-0.1	0.1	yes
Phenanthrene	ng/mL	0	-0.1	0.1	yes
Pyrene	ng/mL	0	-0.02	0.02	yes
Quinoline	ng/mL	0	-3.4	3.4	yes

Date Acquired: November 14, 2010

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Acenaphthene	ng/mL	100.07	80	120	yes
Acenaphthylene	ng/mL	99.04	80	120	yes
Acridine	ng/mL	99.23	80	120	yes
Anthracene	ng/mL	97.90	80	120	yes
Benzo(a)anthracene	ng/mL	98.60	80	120	yes
Benzo(a)pyrene	ng/mL	98.19	80	120	yes
Benzo(b)fluoranthene	ng/mL	94.79	80	120	yes
Benzo(g,h,i)perylene	ng/mL	99.48	80	120	yes
Benzo(k)fluoranthene	ng/mL	103.31	80	120	yes
Chrysene	ng/mL	99.77	80	120	yes
Dibenzo(a,h)anthracene	ng/mL	98.94	80	120	yes
Fluoranthene	ng/mL	99.39	80	120	yes
Fluorene	ng/mL	99.10	80	120	yes
Indeno(1,2,3-c,d)pyrene	ng/mL	98.97	80	120	yes
Naphthalene	ng/mL	99.52	80	120	yes
Phenanthrene	ng/mL	101.59	80	120	yes
Pyrene	ng/mL	99.45	80	120	yes
Quinoline	ng/mL	99.91	80	120	yes

Date Acquired: November 14, 2010

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
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Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Polycyclic Aromatic Hydrocarbons -

Water - Continued

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Acenaphthene	ug/L	100	95.5	60	0.5	yes
Acenaphthylene	ug/L	90.7	88.6	60	0.5	yes
Acridine	ug/L	85.4	82.6	60	0.25	yes
Anthracene	ug/L	102	101	60	0.5	yes
Benzo(a)anthracene	ug/L	85.3	82.8	60	0.05	yes
Benzo(a)pyrene	ug/L	91.4	80.8	60	0.05	yes
Benzo(b)fluoranthene	ug/L	71.1	74.5	60	0.05	yes
Benzo(g,h,i)perylene	ug/L	90.3	88.8	60	0.5	yes
Benzo(k)fluoranthene	ug/L	81.8	78.0	60	0.05	yes
Chrysene	ug/L	95.1	94.0	60	0.5	yes
Dibenzo(a,h)anthracene	ug/L	81.9	79.2	60	0.05	yes
Fluoranthene	ug/L	91.6	89.7	60	0.5	yes
Fluorene	ug/L	95.0	93.0	60	0.5	yes
Indeno(1,2,3-c,d)pyrene	ug/L	85.3	83.4	60	0.5	yes
Naphthalene	ug/L	104	102	60	0.5	yes
Phenanthrene	ug/L	75.9	73.5	60	0.5	yes
Pyrene	ug/L	101	98.7	60	0.10	yes
Quinoline	ug/L	88.7	87.2	60	17.0	yes

Date Acquired: November 14, 2010

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Acenaphthene	ug/L	100	50.0	130.0	yes
Acenaphthylene	ug/L	90.7	50.0	130.0	yes
Acridine	ug/L	85.4	50.01	129.99	yes
Anthracene	ug/L	102	50.0	130.0	yes
Benzo(a)anthracene	ug/L	85.3	50.01	129.99	yes
Benzo(a)pyrene	ug/L	91.4	50.01	129.99	yes
Benzo(b)fluoranthene	ug/L	71.1	50.01	129.99	yes
Benzo(g,h,i)perylene	ug/L	90.3	50.0	130.0	yes
Benzo(k)fluoranthene	ug/L	81.8	50.01	129.99	yes
Chrysene	ug/L	95.1	50.0	130.0	yes
Dibenzo(a,h)anthracene	ug/L	81.9	50.01	129.99	yes
Fluoranthene	ug/L	91.6	50.0	130.0	yes
Fluorene	ug/L	95.0	50.0	130.0	yes
Indeno(1,2,3-c,d)pyrene	ug/L	85.3	50.0	130.0	yes
Naphthalene	ug/L	104	50.0	130.0	yes
Phenanthrene	ug/L	75.9	50.0	130.0	yes
Pyrene	ug/L	101	50.01	129.99	yes
Quinoline	ug/L	88.7	50.0	130.0	yes

Date Acquired: November 14, 2010

Quality Control

Bill To:	EBA Engineering Consultants	Project:		Lot ID:	773805
Report To:	EBA Engineering Consultants	ID:	W23101317	Control Number:	A200884
	Unit 6, 151 Industrial Road	Name:	Monitoring Well Program	Date Received:	Nov 10, 2010
	Whitehorse, YT, Canada	Location:	Champagne	Date Reported:	Jan 27, 2011
	Y1A 2V3	LSD:		Report Number:	1404435
Attn:	Adam Seeley	P.O.:			
Sampled By:	Eliane & Kristen	Acct code:			
Company:	EBA				

PAH - Water - Surrogate Recovery

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
2-Fluorobiphenyl	%	97.07	80	120	yes
Nitrobenzene-d5	%	97.82	80	120	yes
p-Terphenyl-d14	%	96.05	80	120	yes

Date Acquired: November 14, 2010

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
2-Fluorobiphenyl	%	90	90	60	0	yes
Nitrobenzene-d5	%	94	91	60	0	yes
p-Terphenyl-d14	%	91	90	60	0	yes

Date Acquired: November 14, 2010

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
2-Fluorobiphenyl	%	90	40	130	yes
Nitrobenzene-d5	%	94	40	130	yes
p-Terphenyl-d14	%	91	40	130	yes

Date Acquired: November 14, 2010

VOC Screen - Water

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Benzene	ng	0	-2	2	yes
Bromodichloromethane	ng	0	-2	2	yes
Bromoform	ng	0	-2	2	yes
Bromomethane	ng	0	-15	15	yes
Carbon Tetrachloride	ng	0	-2	2	yes
Chlorobenzene	ng	0	-2	2	yes
Chloroethane	ng	0	-15	15	yes
2-Chloroethyl Vinyl Ether	ng	0	-2	2	yes
Chloroform	ng	0	-2	2	yes
Chloromethane	ng	0	-15	15	yes
Dibromochloromethane	ng	0	-2	2	yes
1,2-Dichlorobenzene	ng	0	-2	2	yes
1,3-Dichlorobenzene	ng	0	-2	2	yes
1,4-Dichlorobenzene	ng	0	-2	2	yes
1,1-Dichloroethane	ng	0	-2	2	yes
1,2-Dichloroethane	ng	0	-2	2	yes
1,1-Dichloroethene	ng	0	-2	2	yes
1,2-Dichloroethene(cis)	ng	0	-2	2	yes
1,2-Dichloroethene(trans)	ng	0	-2	2	yes
1,2-Dichloropropane	ng	0	-2	2	yes
1,3-Dichloropropene(cis)	ng	0	-2	2	yes
1,3-Dichloropropene(trans)	ng	0	-2	2	yes
Ethylbenzene	ng	0	-2	2	yes

Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

VOC Screen - Water - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Methylene Chloride	ng	0	-15	15	yes
Styrene	ng	0	-2	2	yes
1,1,2,2-Tetrachloroethane	ng	0	-2	2	yes
Tetrachloroethene	ng	0	-2	2	yes
Toluene	ng	0	-2	2	yes
1,1,1-Trichloroethane	ng	0	-2	2	yes
1,1,2-Trichloroethane	ng	0	-2	2	yes
Trichloroethene	ng	0	-2	2	yes
Trichlorofluoromethane	ng	0	-2	2	yes
Vinyl Chloride	ng	0	-15	15	yes
Xylene-m&p	ng	0	0	0	yes
Xylene-o	ng	0	0	0	yes
Total Xylenes (m,p,o)	ng	0	-2	2	yes

Date Acquired: November 15, 2010

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Benzene	ng	98.10	78	122	yes
Bromodichloromethane	ng		78	122	yes
Bromoform	ng	112.00	78	122	yes
Bromomethane	ng		78	122	yes
Carbon Tetrachloride	ng		78	122	yes
Chlorobenzene	ng	111.54	78	122	yes
Chloroethane	ng		78	122	yes
2-Chloroethyl Vinyl Ether	ng		78	122	yes
Chloroform	ng	108.54	78	122	yes
Chloromethane	ng	106.34	78	122	yes
Dibromochloromethane	ng		78	122	yes
1,2-Dichlorobenzene	ng	108.68	78	122	yes
1,3-Dichlorobenzene	ng	112.26	78	122	yes
1,4-Dichlorobenzene	ng	105.46	78	122	yes
1,1-Dichloroethane	ng	104.02	78	122	yes
1,2-Dichloroethane	ng		78	122	yes
1,1-Dichloroethene	ng	94.74	78	122	yes
1,2-Dichloroethene(cis)	ng	88.30	78	122	yes
1,2-Dichloroethene(trans)	ng	95.88	78	122	yes
1,2-Dichloropropane	ng	89.80	78	122	yes
1,3-Dichloropropene(cis)	ng	110.41	78	122	yes
1,3-Dichloropropene(trans)	ng		78	122	yes
Ethylbenzene	ng	104.50	78	122	yes
Methylene Chloride	ng		78	122	yes
Styrene	ng	103.74	78	122	yes
1,1,2,2-Tetrachloroethane	ng	104.82	78	122	yes
Tetrachloroethene	ng	109.40	78	122	yes

Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

VOC Screen - Water - Continued

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Toluene	ng	98.92	78	122	yes
1,1,1-Trichloroethane	ng		78	122	yes
1,1,2-Trichloroethane	ng	108.78	78	122	yes
Trichloroethene	ng	111.08	78	122	yes
Trichlorofluoromethane	ng	101.40	78	122	yes
Vinyl Chloride	ng	110.26	78	122	yes
Xylene-m&p	ng	107.80	78	122	yes
Xylene-o	ng	104.68	78	122	yes
Total Xylenes (m,p,o)	ng	106.76	78	122	yes

Date Acquired: November 15, 2010

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Benzene	ug/L	<1	<1	15	2	yes
Bromodichloromethane	ug/L	<1	<1	15	2	yes
Bromoform	ug/L	<1	<1	15	2	yes
Bromomethane	ug/L	<10	<10	15	20	yes
Carbon Tetrachloride	ug/L	<1	<1	15	2	yes
Chlorobenzene	ug/L	<1	<1	15	2	yes
Chloroethane	ug/L	<10	<10	15	20	yes
2-Chloroethyl Vinyl Ether	ug/L	<1	<1	15	2	yes
Chloroform	ug/L	<1	<1	15	2	yes
Chloromethane	ug/L	<10	<10	15	20	yes
Dibromochloromethane	ug/L	<1	<1	15	2	yes
1,2-Dichlorobenzene	ug/L	<1	<1	15	2	yes
1,3-Dichlorobenzene	ug/L	<1	<1	15	2	yes
1,4-Dichlorobenzene	ug/L	<1	<1	15	2	yes
1,1-Dichloroethane	ug/L	<1	<1	15	2	yes
1,2-Dichloroethane	ug/L	<1	<1	15	2	yes
1,1-Dichloroethene	ug/L	<1	<1	15	2	yes
1,2-Dichloroethene(cis)	ug/L	<1	<1	15	2	yes
1,2-Dichloroethene(trans)	ug/L	<1	<1	15	2	yes
1,2-Dichloropropane	ug/L	<1	<1	15	2	yes
1,3-Dichloropropene(cis)	ug/L	<1	<1	15	2	yes
1,3-Dichloropropene(trans)	ug/L	<1	<1	15	2	yes
Ethylbenzene	ug/L	<1	<1	15	2	yes
Methylene Chloride	ug/L	<5	<5	30	20	yes
Styrene	ug/L	<1	<1	15	2	yes
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	15	2	yes
Tetrachloroethene	ug/L	<1	<1	15	2	yes
Toluene	ug/L	<1	<1	15	2	yes
1,1,1-Trichloroethane	ug/L	<1	<1	15	2	yes
1,1,2-Trichloroethane	ug/L	<1	<1	15	2	yes
Trichloroethene	ug/L	<1	<1	15	2	yes

Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

VOC Screen - Water - Continued

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Trichlorofluoromethane	ug/L	<1	<1	15	2	yes
Vinyl Chloride	ug/L	<2	<2	15	20	yes
Xylene-m&p	ug/L	<1	<1	15	2	yes
Xylene-o	ug/L	<1	<1	15	2	yes
Total Xylenes (m,p,o)	ug/L	<1	<1	15	2	yes

Date Acquired: November 15, 2010

VOC - Water - Surrogate Recovery

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Dibromofluoromethane	%	112.78	85	115	yes
Toluene-d8	%	97	85	115	yes
Bromofluorobenzene	%	110.05	85	115	yes

Date Acquired: November 15, 2010

Trace Metals Dissolved

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Aluminum	µg/L	8.231	-10	10	yes
Antimony	µg/L	-0.051	-0.4	0.2	yes
Arsenic	µg/L	0.177	-0.5	0.5	yes
Barium	µg/L	-0.177	-0	0	yes
Beryllium	µg/L	-0.008	-0.10	0.10	yes
Bismuth	µg/L	2.033	-1.0	1.0	yes
Boron	µg/L	-0.462	-6	5	yes
Cadmium	µg/L	-0.012	-0.03	0.03	yes
Chromium	µg/L	-0.04	-0.1	0.2	yes
Cobalt	µg/L	-0.004	-0.07	0.07	yes
Copper	µg/L	-0.596	-1	1	yes
Lead	µg/L	-0.039	-0.1	0.1	yes
Lithium	µg/L	-0.011	-1	1	yes
Molybdenum	µg/L	-0.246	-0.31	0.29	yes
Nickel	µg/L	-0.019	-1	1	yes
Selenium	µg/L	-0.425	-1.7	1.3	yes
Silver	µg/L	0.003	-0.05	0.05	yes
Strontium	µg/L	-0.533	-0	0	yes
Tellurium	µg/L	-48.12	-0.7	0.7	yes
Thallium	µg/L	-0.005	-0.03	0.03	yes
Thorium	µg/L	0	-1.5	1.5	yes
Tin	µg/L	1.551	-3.0	3.0	yes
Titanium	µg/L	-0.025	-0.2	0.2	yes
Uranium	µg/L	-0.022	-0.03	0.03	yes
Vanadium	µg/L	-0.019	-0.35	0.35	yes

Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Trace Metals Dissolved - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Zinc	µg/L	-0.242	-2	4	yes
Zirconium	µg/L	-0.003	-0.0	0.0	yes
Date Acquired: November 12, 2010					
Aluminum	µg/L	8.231	-6	6	yes
Antimony	µg/L	0.08	-0.4	0.3	yes
Arsenic	µg/L	0.003	-0.4	0.3	yes
Barium	µg/L	-0.185	-0	1	yes
Beryllium	µg/L	0.011	-0.10	0.10	yes
Bismuth	µg/L	-1.834	0.0	0.0	yes
Boron	µg/L	-1.627	-18	19	yes
Cadmium	µg/L	-0.011	-0.03	0.03	yes
Chromium	µg/L	0.057	-0.1	0.2	yes
Cobalt	µg/L	-0.007	-0.30	0.30	yes
Copper	µg/L	-1.513	-1	1	yes
Lead	µg/L	-0.04	-0.3	0.4	yes
Lithium	µg/L	-0.013	-0	0	yes
Molybdenum	µg/L	0	-0.95	0.85	yes
Nickel	µg/L	-0.023	-1	1	yes
Selenium	µg/L	-0.643	-1.7	1.7	yes
Silver	µg/L	-0.013	-0.67	0.47	yes
Strontium	µg/L	-0.587	-2	4	yes
Tellurium	µg/L	-40.63	-0.7	0.7	yes
Thallium	µg/L	-0.009	-0.06	0.06	yes
Thorium	µg/L	0	-0.7	0.5	yes
Tin	µg/L	-0.899	-3.8	4.0	yes
Titanium	µg/L	-0.325	-0.3	0.2	yes
Uranium	µg/L	0.065	-0.04	0.02	yes
Vanadium	µg/L	-0.027	-0.30	0.30	yes
Zinc	µg/L	0.209	-11	19	yes
Zirconium	µg/L	0.011	-0.0	0.0	yes
Date Acquired: November 12, 2010					
Mercury	ng/L	-11.8	-9.99	9.99	yes
Date Acquired: November 12, 2010					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Mercury	ng/L	98.00	85	115	yes
Date Acquired: November 12, 2010					
Aluminum	µg/L	67.92	70	130	yes
Antimony	µg/L	36.72	85	115	yes
Arsenic	µg/L	95.68	90	110	yes
Barium	µg/L	96.38	90	110	yes
Beryllium	µg/L	102.72	90	110	yes

Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

Trace Metals Dissolved - Continued

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Bismuth	µg/L	85.96	90	110	yes
Boron	µg/L	88.72	70	130	yes
Cadmium	µg/L	99.76	90	110	yes
Chromium	µg/L	94.84	90	110	yes
Cobalt	µg/L	95.90	90	110	yes
Copper	µg/L	96.10	90	110	yes
Lead	µg/L	108.08	90	110	yes
Lithium	µg/L	103.14	90	110	yes
Molybdenum	µg/L	87.92	90	110	yes
Nickel	µg/L	95.76	90	110	yes
Selenium	µg/L	92.68	90	110	yes
Silver	µg/L	0.21	0	0	yes
Strontium	µg/L	91.48	90	110	yes
Thallium	µg/L	104.84	90	110	yes
Tin	µg/L	105.36	90	110	yes
Titanium	µg/L	93.84	90	110	yes
Uranium	µg/L	95.88	85	115	yes
Vanadium	µg/L	94.12	90	110	yes
Zinc	µg/L	91.74	90	110	yes
Zirconium	µg/L	114.28	90	110	yes

Date Acquired: November 12, 2010

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Mercury	ug/L	0.09	0.09	0.08	0.10	yes
Date Acquired:	November 12, 2010					

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	µg/L	19	8	20	20	yes
Antimony	µg/L	2.7	3.2	20	1.0	yes
Arsenic	µg/L	1.0	1.1	20	1.0	yes
Barium	µg/L	45	45	20	5	yes
Beryllium	µg/L	<0.04	<0.04	20	1.00	yes
Boron	µg/L	28	28	20	5	yes
Cadmium	µg/L	0.08	0.07	20	0.50	yes
Chromium	µg/L	0.5	0.5	20	5.0	yes
Cobalt	µg/L	0.83	0.86	20	0.50	yes
Copper	µg/L	<1	<1	20	5	yes
Lead	µg/L	<0.1	<0.1	20	0.5	yes
Lithium	µg/L	9	9	20	5	yes
Molybdenum	µg/L	33.9	33.5	20	0.50	yes
Nickel	µg/L	4	4	20	5	yes
Selenium	µg/L	0.9	1.0	20	0.5	yes
Silver	µg/L	<0.01	<0.01	20	0.50	yes

Quality Control

Bill To:	EBA Engineering Consultants	Project:	Lot ID:	773805
Report To:	EBA Engineering Consultants	ID:	Control Number:	A200884
	Unit 6, 151 Industrial Road	Name:	Date Received:	Nov 10, 2010
	Whitehorse, YT, Canada	Location:	Date Reported:	Jan 27, 2011
	Y1A 2V3	LSD:	Report Number:	1404435
Attn:	Adam Seeley	P.O.:		
Sampled By:	Eliane & Kristen	Acct code:		
Company:	EBA			

Trace Metals Dissolved - Continued

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Strontium	µg/L	300	302	20	0	yes
Tellurium	µg/L	<0.1	30.3	20	0.5	yes
Thallium	µg/L	<0.01	0.02	20	0.10	yes
Thorium	µg/L	<0.4	<0.4	10	0.1	yes
Tin	µg/L	0.3	1.1	20	0.5	yes
Titanium	µg/L	0.7	0.4	20	0.5	yes
Uranium	µg/L	24.2	23.9	20	0.10	yes
Vanadium	µg/L	0.6	0.6	20	0.50	yes
Zinc	µg/L	3	2	20	5	yes
Zirconium	µg/L	0.6	1	20	0.5	yes

Date Acquired: November 12, 2010

Methodology and Notes

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
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	10-Nov-10	Exova Surrey
Alk, pH, EC, Turb in water	APHA	* pH - Electrometric Method, 4500-H+ B	10-Nov-10	Exova Surrey
Ammonia-N in Water	APHA	* Titrametric, 4500-NH3 C	12-Nov-10	Exova Surrey
Ammonium-N in Water	APHA	* Automated Phenate Method, 4500-NH3 G	16-Nov-10	Exova Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	15-Nov-10	Exova Edmonton
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	10-Nov-10	Exova Surrey
BTEX-VPH - Water	BCELM	* Volatile Hydrocarbons in Water by GC/FID, VH Water	10-Nov-10	Exova Surrey
BTEX-VPH - Water	BCELM	* Volatile Hydrocarbons in Water by GC/FID, VH Water	12-Nov-10	Exova Surrey
Carbon Organic (Dissolved) in water (DOC)	APHA	High-Temperature Combustion Method, 5310 B	15-Nov-10	Exova Edmonton
Chemical Oxygen Demand in water	APHA	* Closed Reflux, Colorimetric Method, 5220 D	15-Nov-10	Exova Edmonton
Coliforms - Membrane Filtration	APHA	Fecal Coliform Membrane Filter Procedure, 9222 D	10-Nov-10	Exova Surrey
EPH - Water	BCELM	* Extractable Petroleum Hydrocarbons (EPH) in Water by GC/FID, EPH Water	14-Nov-10	Exova Surrey
Mercury Low Level (Total) in water	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	12-Nov-10	Exova Surrey
Metals SemiTrace (Dissolved) in water	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	12-Nov-10	Exova Surrey
Nitrogen - nitrite+nitrate-N	APHA	* Automated Cadmium Reduction Method, 4500-NO3- F	12-Nov-10	Exova Surrey
Orthophosphate-P in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	15-Nov-10	Exova Edmonton
PAH - Water (Surrey)	BCELM	* Polycyclic Aromatic Hydrocarbons in Water by GC/MS - PBM, PAH Water	14-Nov-10	Exova Surrey
Phosphorus - Total in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	15-Nov-10	Exova Edmonton
Solids Dissolved (Total, Fixed and Volatile)2	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	12-Nov-10	Exova Surrey
Total and Kjeldahl Nitrogen (Total) in Water	ISO	* Water Quality - Determination of nitrogen, ISO/TR 11905-2	15-Nov-10	Exova Edmonton
VOC - Water	US EPA	* US EPA method, 8260B/5030B	15-Nov-10	Exova Calgary

* Reference Method Modified

Methodology and Notes

Bill To:	EBA Engineering Consultants	Project:	Lot ID: 773805
Report To:	EBA Engineering Consultants	ID: W23101317	Control Number: A200884
	Unit 6, 151 Industrial Road	Name: Monitoring Well Program	Date Received: Nov 10, 2010
	Whitehorse, YT, Canada	Location: Champagne	Date Reported: Jan 27, 2011
	Y1A 2V3	LSD:	Report Number: 1404435
Attn:	Adam Seeley	P.O.:	
Sampled By:	Eliane & Kristen	Acct code:	
Company:	EBA		

References

APHA	Standard Methods for the Examination of Water and Wastewater
B.C.M.O.E	B.C. Ministry of Environment
BCELM	B.C. Environmental Laboratory Manual
EPA	Environmental Protection Agency Test Methods - US
ISO	International Organization for Standardization
US EPA	US Environmental Protection Agency Test Methods

Comments:

- Temperature of samples on arrival was 4°C.
- The 1L amber container for sample CH-MW04 was received broken. LEPH/HEPH/PAH could not be analyzed.
- Report was re-issued to correct the tellurium result on 773805-5 previously reported as 2.1 ug/L on Test Report 1385519. Report 1404435 replaces report 1385519.
- Sample 773805-5: the repeated result for tellurium analysis differs significantly from the original. The cause of the difference is matrix interference.
- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

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.

Hydrocarbon Chromatogram

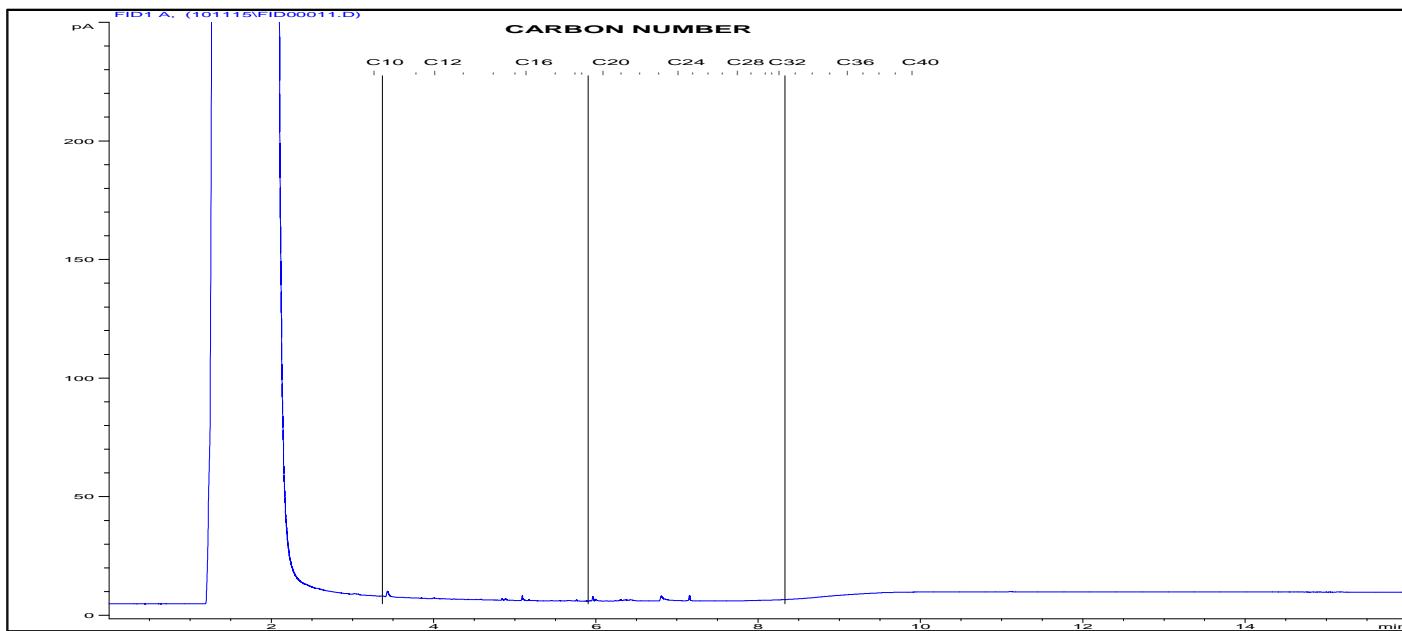
Bill To: EBA Engineering Consultants Lt
Report To: EBA Engineering Consultants Lt
Unit 6, 151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Adam Seeley
Sampled by: Eliane & Kristen
Company: EBA

Project ID: W23101317
Name: Monitoring Well Program
Location: Champagne
LSD:
P.O.:

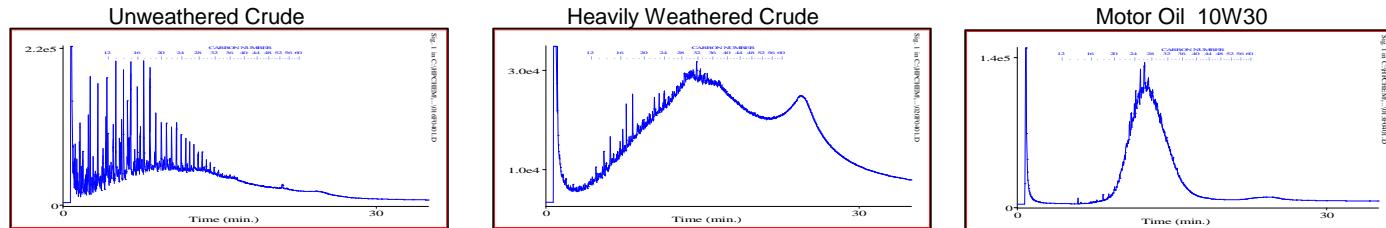
Lot ID: **773805**
Control Number: A200884
Date Received: Nov 10, 2010
Date Reported: Nov 17, 2010
Report Number: 1385519

Exova Number: 773805-1
Sample Date: Nov 9, 2010

Sample Description: CH - MW01



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Exova
#104, 19575 - 55A Avenue
Surrey, B.C.
V3S-8P8, Canada

T: +1 (604) 514-3322
F: +1 (604) 514-3323
E: NWL-Surrey@exova.com
W: www.exova.com



Hydrocarbon Chromatogram

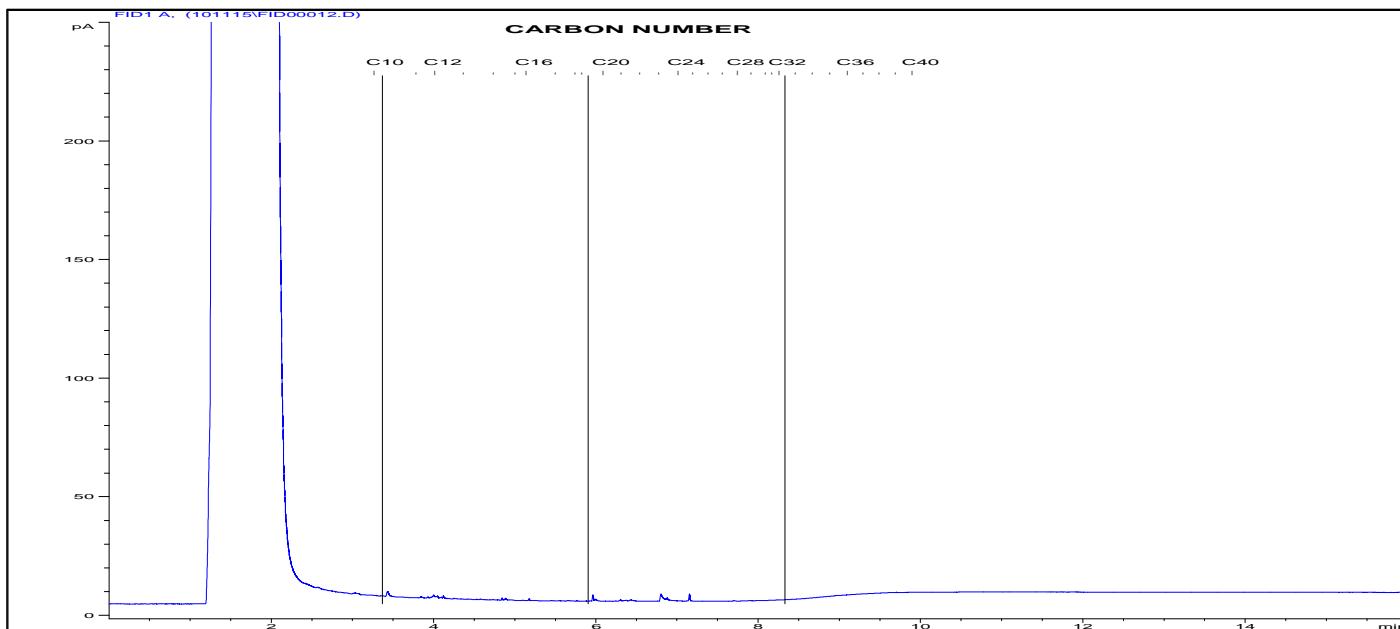
Bill To: EBA Engineering Consultants Lt
Report To: EBA Engineering Consultants Lt
Unit 6, 151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Adam Seeley
Sampled by: Eliane & Kristen
Company: EBA

Project ID: W23101317
Name: Monitoring Well Program
Location: Champagne
LSD:
P.O.:

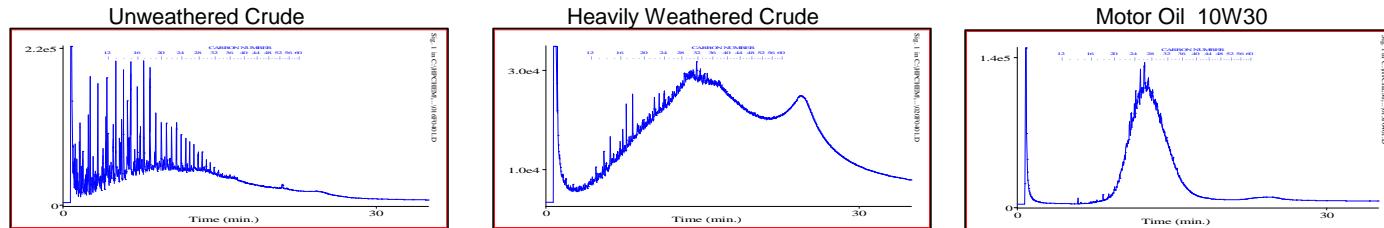
Lot ID: **773805**
Control Number: A200884
Date Received: Nov 10, 2010
Date Reported: Nov 17, 2010
Report Number: 1385519

Exova Number: 773805-2
Sample Date: Nov 9, 2010

Sample Description: CH - MW02



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Exova
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V3S-8P8, Canada

T: +1 (604) 514-3322
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E: NWL-Surrey@exova.com
W: www.exova.com



Hydrocarbon Chromatogram

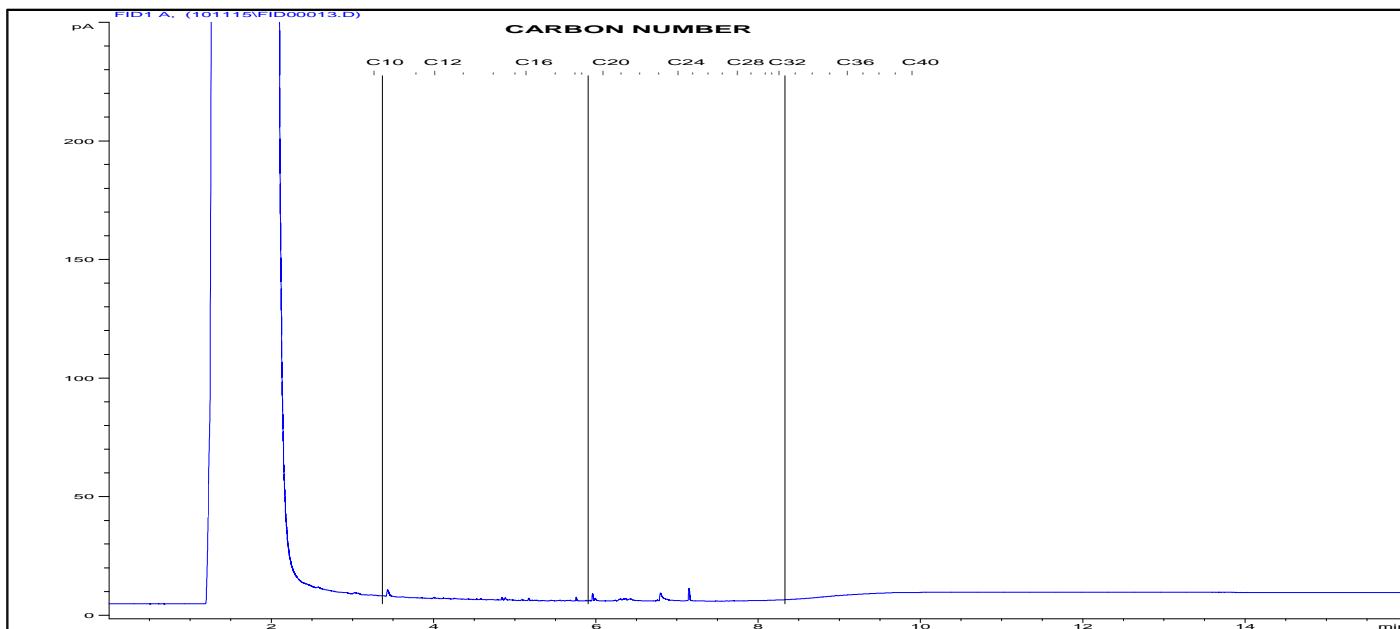
Bill To: EBA Engineering Consultants Lt
Report To: EBA Engineering Consultants Lt
Unit 6, 151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Adam Seeley
Sampled by: Eliane & Kristen
Company: EBA

Project ID: W23101317
Name: Monitoring Well Program
Location: Champagne
LSD:
P.O.:

Lot ID: **773805**
Control Number: A200884
Date Received: Nov 10, 2010
Date Reported: Nov 17, 2010
Report Number: 1385519

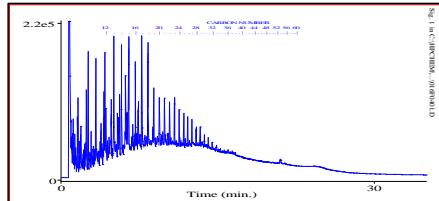
Exova Number: 773805-3
Sample Date: Nov 9, 2010

Sample Description: CH - MW03

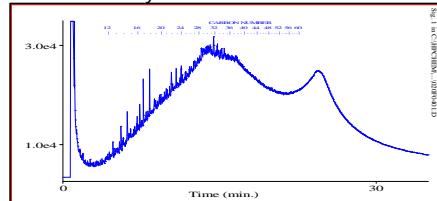


TYPICAL PRODUCT CHROMATOGRAMS

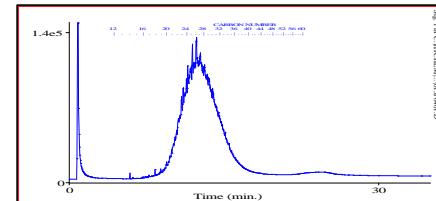
Unweathered Crude



Heavily Weathered Crude



Motor Oil 10W30



Product Carbon Number Ranges

Gasoline
Varsol

C4-C12
C8-C12

Kerosene
Diesel

C7-C16
C8-C22

Lubricating Oils
Crude Oils

C20-C40
C3-C60+

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Exova location and proper sampling protocol

Billing Address:	Copy of Report: <input checked="" type="checkbox"/>	Copy of Report To:	Copy of invoice: <input type="checkbox"/>
Company: EBA Env.	QA/QC Report <input checked="" type="checkbox"/>	Address: <input type="checkbox"/> → idem	Send invoice to this address for approval <input type="checkbox"/>
Address: 6-151 Industrial Rd Whitehorse, YT Y1A 2R3			
Attention: Adam Seeley	Report Result: e-mail <input checked="" type="checkbox"/>	Attention: <input type="checkbox"/>	Report Result: e-mail <input type="checkbox"/>
Phone: 867-668-2041 x243	Results Online <input checked="" type="checkbox"/>	Phone: <input type="checkbox"/>	Results Online <input type="checkbox"/>
Fax: <input type="checkbox"/>	Fax <input type="checkbox"/>	Fax: <input type="checkbox"/>	Fax <input type="checkbox"/>
Cell: <input type="checkbox"/>	Mail <input type="checkbox"/>	e-mail: <input type="checkbox"/>	Mail <input type="checkbox"/>
e-mail: aseeley@eba.ca			

Information to be included on Report and Invoice

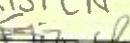
Project ID: W23101317
Project Name: Monitoring Well Program
Project Location: CHAMPAGNE
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID:
Special Instructions / Comments

PRIORITY
Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.
If not all samples require RUSH, please indicate in special instructions.

Date Required: _____
Signature: _____

Sample Custody (Please Print)

Sampled by: DIANE & KRISTEN
Company: EBA Signature: 
I authorize Exova to proceed with the work indicated on this form:

Date: NOV 9/2011 Initial: ER

Received by: Sample Temp.

Waybill #: Date

Company: Time

* Routine includes the following analyses:
• ICSO • ICCL
• ALK • TDS

Please indicate which regulations you are required to meet:

Health Canada Drinking Water Quality
 Alberta Tier 1
 Other:

Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	Enter tests above (✓ relevant samples below)											
							DOC	COD	CTE	Hg	UVWZ	CPH	UVWZ	CPH	UVWZ	CPH	UVWZ	CPH
CH-MW01	CHAMPAGNE	—	Nov. 9	water	grab	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CH-MW02		—	Nov. 9			10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CH-MW03		—				10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CH-MW04		—				9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Duplicate CH-MW03		—				6	✓											
Inp blank		—	Nov. 7			9												

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1

Hire a great day!

IMPORTANT INFORMATION

1. Turnaround time - standard turnaround time is 5 to 7 working days. Please contact your Exova representative for the turnaround time of specific analyses. Please note, delays may be experienced if the Sample Information Sheet is incomplete.
2. Priority analysis - Please contact the lab before submitting rush samples to confirm that your required turn around time can be met. Rush analyses are subject to surcharges.
3. Sample custody - All samples will be stored for 30 days from the date the final test report is printed. Arrangements can be made to hold the samples for an extended period at a nominal cost.
4. Waste sample disposal - For each sample received an environmental disposal fee of \$2.00 will be added.
5. Hazardous samples - it is expected in the context of due diligence, that all potentially hazardous samples will be identified.
6. All samples that do not have analysis requested will be charged a hold fee of \$5.25.

How to fill out this Sample Information Sheet

Billing Address

- The Company to which the invoice should be addressed

Copy Of Report To

- To whom a copy of the test report should go, if different from the Billing Address.
- If a copy of the invoice is required as well, select 'Copy of Invoice'.
- Select Send invoice to this address for approval, if necessary, and select how the test reports should be delivered.

Information to be included on Test Report and Invoice

- Fill out all applicable project information that should appear on the test report and invoice.
- If a quote was issued for the project, the Project Name used on the quote must be provided to ensure the agreed upon pricing and services are used

Special Instructions/Comments

- If you are reporting to a regulatory body, please indicate which regulations you are required to meet.

Priority

- Include a signature to indicate that it is acceptable rush charges will be applied.

Sample Custody

- To be signed by the person submitting the samples. When the sample is received at Exova, the receiver will sign as well.

Sample Identification

- Include all sample descriptions required on the test report.

Services Requested

- Please use Exova service package codes from the current schedule of services.
- Use the small boxes to select which samples require the indicated services.

Please contact an Exova representative at the locations below if further assistance is required to fill out the Sample Information Sheet.

Edmonton
(780) 438 5522

Calgary
(403) 291-2022

Grande Prairie
(780) 532-8709

Drayton Valley
(780) 542-6812

Surrey
(604) 514-3322

Fort St. John
(250) 785-2731

Lloydminster
(780) 874-9245

For Exova Locations please refer to www.exova.ca.

Your Project #: W23101317 MONITORING WELL PROG
Site: CHAMPAGNE
Your C.O.C. #: T002016

Attention: Adam Seeley
EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE - Rebate
CALCITE BUSINESS CENTRE
UNIT 6, 151 INDUSTRIAL ROAD
WHITEHORSE, YT
CANADA Y1A 2V3

Report Date: 2010/12/06

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0B0179

Received: 2010/11/10, 13:45

Sample Matrix: Water

Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BTEX/MTBE LH, VH, F1 SIM/MS	1	2010/11/12	2010/11/13	BBY8-SOP-00010	Based on EPA 8260C
Hardness (calculated as CaCO ₃)	1	N/A	2010/11/18		
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	1	N/A	2010/11/18	BRN SOP-00206	Based on EPA 200.8
Elements by CRC ICPMS (dissolved)	1	N/A	2010/11/17	BRN SOP-00206	Based on EPA 200.8
Ammonia-N	1	N/A	2010/11/12	BBY6SOP-00044	Based on EPA 350.1
Nitrate + Nitrite (N)	1	N/A	2010/11/12		Based on USEPA 353.2
Nitrite (N) by CFA	1	N/A	2010/11/12	BRN SOP-00233 R1.0	EPA 353.2
Nitrogen - Nitrate (as N)	1	N/A	2010/11/15	BBY6SOP-00010	Based on EPA 353.2
Filter and HNO ₃ Preserve for Metals	1	N/A	2010/11/12	BRN WI-00006 R1.0	Based on EPA 200.2
Volatile HC-BTEX	1	N/A	2010/11/15		

* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Amanda Hart, Burnaby Customer Service
Email: AHart@maxxam.ca
Phone# (604) 639-2605

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1



Maxxam Job #: B0B0179
Report Date: 2010/12/06

Success Through Science®

EBA ENGINEERING CONSULTANTS LTD.
Client Project #: W23101317 MONITORING WELL PROG
Site Reference: CHAMPAGNE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		Y36042		
Sampling Date		2010/11/09		
	Units	DUPLICATE CH-MW03	RDL	QC Batch
ANIONS				
Nitrite (N)	mg/L	<0.005	0.005	4423968
Calculated Parameters				
Filter and HNO3 Preservation	N/A	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.02	0.02	4421133
Nutrients				
Ammonia (N)	mg/L	0.081	0.005	4421695
Nitrate plus Nitrite (N)	mg/L	<0.02	0.02	4423877

BCCSR BTEX/VPH IN WATER (WATER)

Maxxam ID		Y36042		
Sampling Date		2010/11/09		
	Units	DUPLICATE CH-MW03	RDL	QC Batch
Volatiles				
VPH (VH6 to 10 - BTEX)	ug/L	<300	300	4421238
Methyl-tert-butylether (MTBE)	ug/L	<4	4	4421998
Benzene	ug/L	<0.4	0.4	4421998
Toluene	ug/L	<0.4	0.4	4421998
Ethylbenzene	ug/L	<0.4	0.4	4421998
m & p-Xylene	ug/L	<0.4	0.4	4421998
o-Xylene	ug/L	<0.4	0.4	4421998
Styrene	ug/L	<0.4	0.4	4421998
Xylenes (Total)	ug/L	<0.4	0.4	4421998
VH C6-C10	ug/L	<300	300	4421998
Surrogate Recovery (%)				
4-BROMOFLUOROBENZENE (sur.)	%	97		4421998
D4-1,2-DICHLOROETHANE (sur.)	%	97		4421998
D8-TOLUENE (sur.)	%	102		4421998

N/A = Not Applicable

RDL = Reportable Detection Limit

CSR DISSOLVED METALS IN WATER (WATER)

Maxxam ID		Y36042		
Sampling Date		2010/11/09		
	Units	DUPLICATE CH-MW03	RDL	QC Batch
Misc. Inorganics				
Dissolved Hardness (CaCO ₃)	mg/L	218	0.5	4421114
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	mg/L	0.005	0.003	4426990
Dissolved Antimony (Sb)	mg/L	0.0009	0.0005	4426990
Dissolved Arsenic (As)	mg/L	0.0010	0.0001	4426990
Dissolved Barium (Ba)	mg/L	0.062	0.001	4426990
Dissolved Beryllium (Be)	mg/L	<0.0001	0.0001	4426990
Dissolved Bismuth (Bi)	mg/L	<0.001	0.001	4426990
Dissolved Boron (B)	mg/L	<0.05	0.05	4426990
Dissolved Cadmium (Cd)	mg/L	0.00005	0.00001	4426990
Dissolved Chromium (Cr)	mg/L	<0.001	0.001	4426990
Dissolved Cobalt (Co)	mg/L	0.0007	0.0005	4426990
Dissolved Copper (Cu)	mg/L	0.0020	0.0002	4426990
Dissolved Iron (Fe)	mg/L	0.005	0.005	4426990
Dissolved Lead (Pb)	mg/L	<0.0002	0.0002	4426990
Dissolved Lithium (Li)	mg/L	<0.005	0.005	4426990
Dissolved Manganese (Mn)	mg/L	0.276	0.001	4426990
Dissolved Mercury (Hg)	mg/L	<0.00002	0.00002	4426990
Dissolved Molybdenum (Mo)	mg/L	0.022	0.001	4426990
Dissolved Nickel (Ni)	mg/L	0.004	0.001	4426990
Dissolved Selenium (Se)	mg/L	0.0017	0.0001	4426990
Dissolved Silicon (Si)	mg/L	4.8	0.1	4426990
Dissolved Silver (Ag)	mg/L	<0.00002	0.00002	4426990
Dissolved Strontium (Sr)	mg/L	0.330	0.001	4426990
Dissolved Thallium (Tl)	mg/L	<0.00005	0.00005	4426990
Dissolved Tin (Sn)	mg/L	<0.005	0.005	4426990
Dissolved Titanium (Ti)	mg/L	<0.005	0.005	4426990
Dissolved Uranium (U)	mg/L	0.0110	0.0001	4426990
Dissolved Vanadium (V)	mg/L	<0.005	0.005	4426990
Dissolved Zinc (Zn)	mg/L	<0.005	0.005	4426990
Dissolved Zirconium (Zr)	mg/L	<0.0005	0.0005	4426990
Dissolved Calcium (Ca)	mg/L	52.3	0.05	4421115
Dissolved Magnesium (Mg)	mg/L	21.3	0.05	4421115
Dissolved Potassium (K)	mg/L	5.76	0.05	4421115
Dissolved Sodium (Na)	mg/L	9.19	0.05	4421115
Dissolved Sulphur (S)	mg/L	24	3	4421115

RDL = Reportable Detection Limit



Maxxam Job #: B0B0179
Report Date: 2010/12/06

Success Through Science®

EBA ENGINEERING CONSULTANTS LTD.
Client Project #: W23101317 MONITORING WELL PROG
Site Reference: CHAMPAGNE

Package 1	5.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Maxxam Job #: B0B0179
 Report Date: 2010/12/06

EBA ENGINEERING CONSULTANTS LTD.
 Client Project #: W23101317 MONITORING WELL PROG
 Site Reference: CHAMPAGNE

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
4421695	Ammonia (N)	2010/11/12	106	80 - 120	101	80 - 120	<0.005	mg/L	0.3	20		
4421998	4-BROMOFLUOROBENZENE (sur.)	2010/11/13	98	70 - 130	100	70 - 130	96	%			99	70 - 130
4421998	D4-1,2-DICHLOROETHANE (sur.)	2010/11/13	99	70 - 130	97	70 - 130	93	%			96	70 - 130
4421998	D8-TOLUENE (sur.)	2010/11/13	102	70 - 130	102	70 - 130	103	%			102	70 - 130
4421998	Methyl-tert-butylether(MTBE)	2010/11/13	93	70 - 130	84	70 - 130	<4	ug/L				
4421998	Benzene	2010/11/13	96	70 - 130	87	70 - 130	<0.4	ug/L	NC	30		
4421998	Toluene	2010/11/13	93	70 - 130	84	70 - 130	<0.4	ug/L	NC	30		
4421998	Ethylbenzene	2010/11/13	94	70 - 130	87	70 - 130	<0.4	ug/L	NC	30		
4421998	m & p-Xylene	2010/11/13	91	70 - 130	84	70 - 130	<0.4	ug/L	NC	30		
4421998	o-Xylene	2010/11/13	96	70 - 130	89	70 - 130	<0.4	ug/L	NC	30		
4421998	Styrene	2010/11/13	98	70 - 130	90	70 - 130	<0.4	ug/L				
4421998	VH C6-C10	2010/11/13					<300	ug/L			80	70 - 130
4421998	Xylenes (Total)	2010/11/13					<0.4	ug/L	NC	30		
4423877	Nitrate plus Nitrite (N)	2010/11/12	100	80 - 120	100	80 - 120	<0.02	mg/L				
4423968	Nitrite (N)	2010/11/12	97	80 - 120	96	80 - 120	<0.005	mg/L	NC ⁽¹⁾	20		
4426990	Dissolved Arsenic (As)	2010/11/17	95	80 - 120	94	80 - 120	<0.0001	mg/L	1.8	20		
4426990	Dissolved Beryllium (Be)	2010/11/17	84	80 - 120	81	80 - 120	<0.0001	mg/L	NC	20		
4426990	Dissolved Cadmium (Cd)	2010/11/17	103	80 - 120	102	80 - 120	<0.00001	mg/L	NC	20		
4426990	Dissolved Chromium (Cr)	2010/11/17	93	80 - 120	94	80 - 120	<0.001	mg/L	NC	20		
4426990	Dissolved Cobalt (Co)	2010/11/17	93	80 - 120	95	80 - 120	<0.0005	mg/L	NC	20		
4426990	Dissolved Copper (Cu)	2010/11/17	90	80 - 120	96	80 - 120	<0.0002	mg/L	NC	20		
4426990	Dissolved Lead (Pb)	2010/11/17	96	80 - 120	100	80 - 120	<0.0002	mg/L	NC	20		
4426990	Dissolved Lithium (Li)	2010/11/17	80	80 - 120	77 ^(2, 3)	80 - 120	<0.005	mg/L	NC	20		
4426990	Dissolved Nickel (Ni)	2010/11/17	92	80 - 120	97	80 - 120	<0.001	mg/L	NC	20		
4426990	Dissolved Selenium (Se)	2010/11/17	62 ⁽²⁾	80 - 120	103	80 - 120	<0.0001	mg/L	NC	20		
4426990	Dissolved Uranium (U)	2010/11/17	101	80 - 120	98	80 - 120	<0.0001	mg/L	NC	20		
4426990	Dissolved Vanadium (V)	2010/11/17	93	80 - 120	92	80 - 120	<0.005	mg/L	NC	20		
4426990	Dissolved Zinc (Zn)	2010/11/17	99	80 - 120	98	80 - 120	<0.005	mg/L	NC	20		
4426990	Dissolved Aluminum (Al)	2010/11/17					<0.003	mg/L	NC	20		
4426990	Dissolved Antimony (Sb)	2010/11/17					<0.0005	mg/L	NC	20		
4426990	Dissolved Barium (Ba)	2010/11/17					<0.001	mg/L	0.08	20		
4426990	Dissolved Bismuth (Bi)	2010/11/17					<0.001	mg/L	NC	20		
4426990	Dissolved Boron (B)	2010/11/17					<0.05	mg/L	NC	20		
4426990	Dissolved Iron (Fe)	2010/11/17					<0.005	mg/L	1.8	20		
4426990	Dissolved Manganese (Mn)	2010/11/17					<0.001	mg/L	2.2	20		
4426990	Dissolved Mercury (Hg)	2010/11/17					<0.00002	mg/L	NC	20		
4426990	Dissolved Molybdenum (Mo)	2010/11/17					<0.001	mg/L	NC	20		
4426990	Dissolved Silicon (Si)	2010/11/17					<0.1	mg/L	2.6	20		
4426990	Dissolved Silver (Ag)	2010/11/17					<0.00002	mg/L	NC	20		
4426990	Dissolved Strontium (Sr)	2010/11/17					<0.001	mg/L	0.01	20		

Maxxam Job #: B0B0179
 Report Date: 2010/12/06

EBA ENGINEERING CONSULTANTS LTD.
 Client Project #: W23101317 MONITORING WELL PROG
 Site Reference: CHAMPAGNE

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
4426990	Dissolved Thallium (Tl)	2010/11/17					<0.00005	mg/L	NC	20		
4426990	Dissolved Tin (Sn)	2010/11/17					<0.005	mg/L	NC	20		
4426990	Dissolved Titanium (Ti)	2010/11/17					<0.005	mg/L	NC	20		
4426990	Dissolved Zirconium (Zr)	2010/11/17					<0.0005	mg/L	NC	20		

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) - Sample analysed past recommended hold time

(2) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(3) - Spike for Li outside acceptance criteria (10% of analytes failure allowed)



4606 Canada Way, Burnaby, BC Canada V5G 1K5 Ph: 604 734 7276 Toll Free: 1 800 665 8566 Fax: 604 731 2386

Maxxam Job#:

BOB 0179

Invoice To: Require Report? Yes No

Company Name: EBA Engineering
 Contact Name: Adm Spelley
 Address: 6-151 Industrial Rd
Whitehorse YT PC: Y1A 2V3
 Phone / Fax#: Ph: 867 668-2071 Fax: X 243
 E-mail: aseleev@ebs.ca

GLP

(Y/N)

Special Instructions:

Return Cooler

Ship Sample Bottles (please specify)

Report To:

Same

Company Name:
 Contact Name:
 Address:
 Phone / Fax#:
 E-mail:
 PC:
 Ph:
 Fax:

CHAIN OF CUSTODY RECORD

Page: 1 of 1

T 002016

PO #:	
Quotation #:	
Project #:	<u>WZ3101317</u>
Proj. Name:	<u>Monitoring Well Program</u>
Location:	<u>CHAMPAGNE</u>
Sampled By:	<u>ELIANE & KRISTEN</u>

ANALYSIS REQUESTED

Sample Identification	Lab Identification	Sampling Method	Date Sampled	Time Sampled
1				
2	Duplicate CH-MW03 CHAMPAGNE Grab		Nov. 9	mid pm.
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

*Relinquished by:	Date (YYYY/MMM/DD):	Time:	Received by:	Date (YYYY/MMM/DD):	Time:	Temperature on Receipt (°C)	Custody Seal Intact on Cooler?
Elaine Ray	2010/11/09	6:00PM	NICL SAM	2010/11/10	13:45	515/6	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

COC-1015 (07/10)

Maxxam International Corporation o/a Maxxam Analytics

White: Maxxam Yellow: Client

APPENDIX G

APPENDIX G HYDRAULIC RESPONSE TEST DATA AND ANALYSIS



EBA Engineering Consultants
Calcite Buisness Centre
Unit 6, 151 Industrial Road
Whitehorse, Yukon Y1A 2V3

Slug Test Analysis Report

Number: W23101317

Project: 2010 Monitoring Program Champagne

Client: Yukon Government

Location Champagne

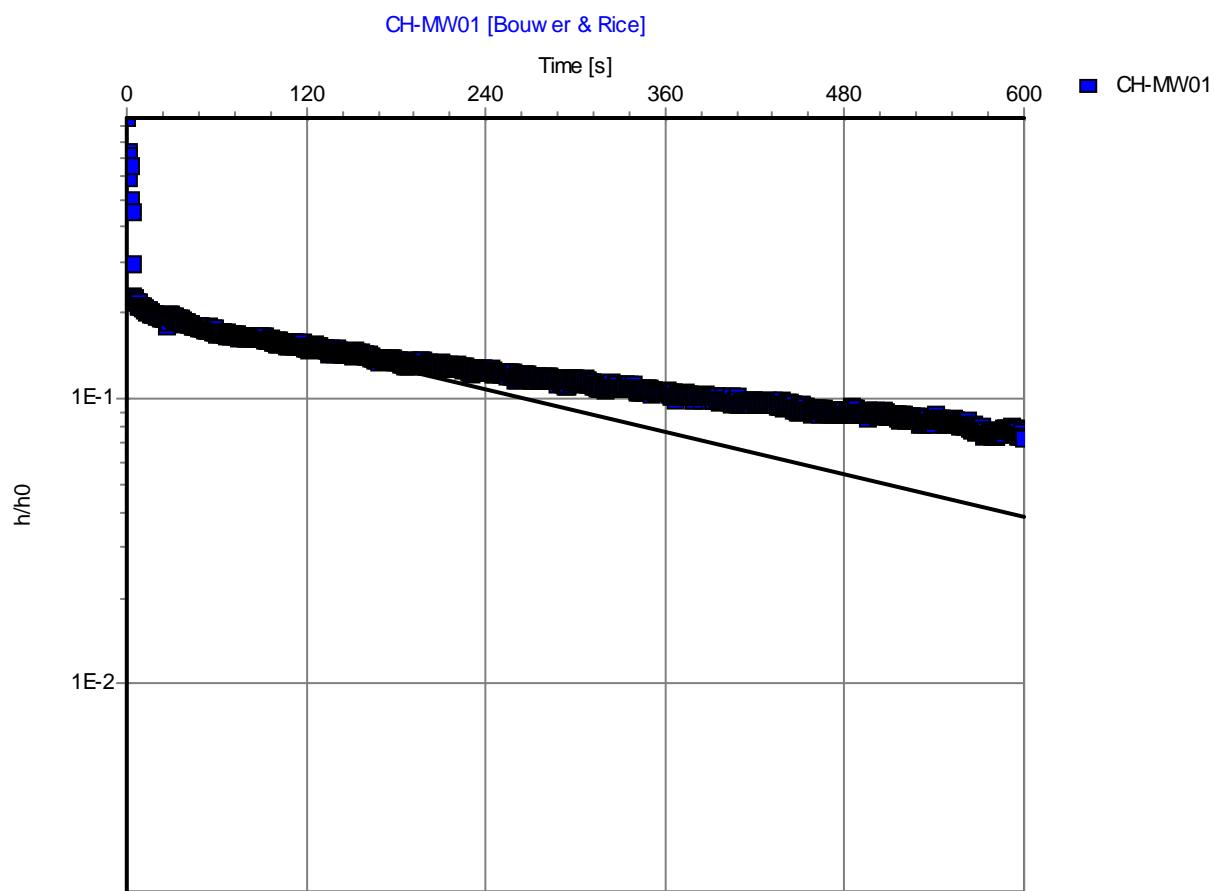
Test performed by: ER

Evaluated by: BCW

Test date: 12/15/2010

Reviewed by: SK

Analysis Method: Bouwer & Rice



Conductivity: 1.31E-6 [m/s]

Comments:



EBA Engineering Consultants
Calcite Buisness Centre
Unit 6, 151 Industrial Road
Whitehorse, Yukon Y1A 2V3

Slug Test Analysis Report

Number: W23101317

Project: 2010 Monitoring Program Champagne

Client: Yukon Government

Location Champagne

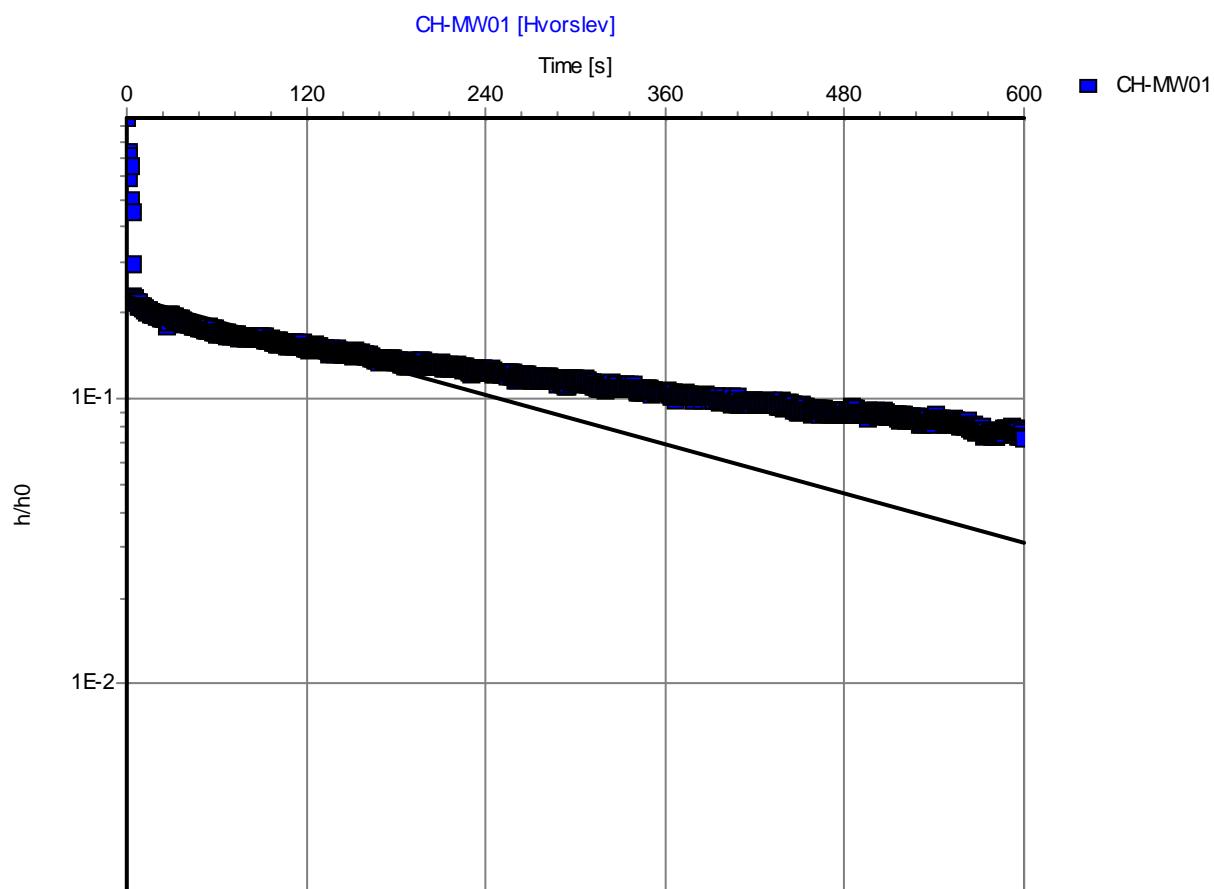
Test performed by: ER

Evaluated by: BCW

Test date: 12/15/2010

Reviewed by: SK

Analysis Method: Hvorslev



Conductivity: 2.03E-6 [m/s]

Comments:

2010 Monitoring Well Program

Serial Number 72942
 Project ID W23101317
Location **Champagne CH-MW01**
 Channel 1 Identification
 Static (m btoc) 1.219

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:34:16	0.131	0.0	1.088	9:34:43	1.023	27.0	0.196	9:35:10	1.029	54.0	0.19
9:34:16	0.169	0.5	1.05	9:34:44	1.012	27.5	0.207	9:35:11	1.025	54.5	0.194
9:34:17	0.420	1.0	0.799	9:34:44	1.019	28.0	0.2	9:35:11	1.029	55.0	0.19
9:34:17	0.451	1.5	0.768	9:34:45	1.005	28.5	0.214	9:35:12	1.029	55.5	0.19
9:34:18	0.568	2.0	0.651	9:34:45	1.007	29.0	0.212	9:35:12	1.029	56.0	0.19
9:34:18	0.505	2.5	0.714	9:34:46	1.004	29.5	0.215	9:35:13	1.029	56.5	0.19
9:34:19	0.676	3.0	0.543	9:34:46	1.007	30.0	0.212	9:35:13	1.031	57.0	0.188
9:34:19	0.729	3.5	0.49	9:34:47	1.008	30.5	0.211	9:35:14	1.027	57.5	0.192
9:34:20	0.895	4.0	0.324	9:34:47	1.012	31.0	0.207	9:35:14	1.033	58.0	0.186
9:34:20	0.969	4.5	0.25	9:34:48	1.009	31.5	0.21	9:35:15	1.032	58.5	0.187
9:34:21	0.976	5.0	0.243	9:34:48	1.013	32.0	0.206	9:35:15	1.028	59.0	0.191
9:34:21	0.975	5.5	0.244	9:34:49	1.013	32.5	0.206	9:35:16	1.032	59.5	0.187
9:34:22	0.977	6.0	0.242	9:34:49	1.011	33.0	0.208	9:35:16	1.035	60.0	0.184
9:34:22	0.981	6.5	0.238	9:34:50	1.015	33.5	0.204	9:35:17	1.036	60.5	0.183
9:34:23	0.981	7.0	0.238	9:34:50	1.013	34.0	0.206	9:35:17	1.033	61.0	0.186
9:34:23	0.984	7.5	0.235	9:34:51	1.011	34.5	0.208	9:35:18	1.033	61.5	0.186
9:34:24	0.988	8.0	0.231	9:34:51	1.013	35.0	0.206	9:35:18	1.032	62.0	0.187
9:34:24	0.988	8.5	0.231	9:34:52	1.016	35.5	0.203	9:35:19	1.032	62.5	0.187
9:34:25	0.988	9.0	0.231	9:34:52	1.015	36.0	0.204	9:35:19	1.032	63.0	0.187
9:34:25	0.988	9.5	0.231	9:34:53	1.012	36.5	0.207	9:35:20	1.035	63.5	0.184
9:34:26	0.988	10.0	0.231	9:34:53	1.016	37.0	0.203	9:35:20	1.033	64.0	0.186
9:34:26	0.989	10.5	0.23	9:34:54	1.015	37.5	0.204	9:35:21	1.033	64.5	0.186
9:34:27	0.993	11.0	0.226	9:34:54	1.021	38.0	0.198	9:35:21	1.035	65.0	0.184
9:34:27	0.992	11.5	0.227	9:34:55	1.016	38.5	0.203	9:35:22	1.035	65.5	0.184
9:34:28	0.993	12.0	0.226	9:34:55	1.017	39.0	0.202	9:35:22	1.035	66.0	0.184
9:34:28	0.996	12.5	0.223	9:34:56	1.019	39.5	0.2	9:35:23	1.033	66.5	0.186
9:34:29	0.997	13.0	0.222	9:34:56	1.017	40.0	0.202	9:35:23	1.040	67.0	0.179
9:34:29	1.000	13.5	0.219	9:34:57	1.019	40.5	0.2	9:35:24	1.035	67.5	0.184
9:34:30	1.000	14.0	0.219	9:34:57	1.020	41.0	0.199	9:35:24	1.036	68.0	0.183
9:34:30	0.997	14.5	0.222	9:34:58	1.020	41.5	0.199	9:35:25	1.035	68.5	0.184
9:34:31	0.997	15.0	0.222	9:34:58	1.020	42.0	0.199	9:35:25	1.036	69.0	0.183
9:34:31	1.000	15.5	0.219	9:34:59	1.020	42.5	0.199	9:35:26	1.039	69.5	0.18
9:34:32	1.003	16.0	0.216	9:34:59	1.021	43.0	0.198	9:35:26	1.040	70.0	0.179
9:34:32	1.000	16.5	0.219	9:35:00	1.020	43.5	0.199	9:35:27	1.037	70.5	0.182
9:34:33	1.003	17.0	0.216	9:35:00	1.023	44.0	0.196	9:35:27	1.036	71.0	0.183
9:34:33	1.004	17.5	0.215	9:35:01	1.024	44.5	0.195	9:35:28	1.035	71.5	0.184
9:34:34	1.004	18.0	0.215	9:35:01	1.024	45.0	0.195	9:35:28	1.037	72.0	0.182
9:34:34	1.004	18.5	0.215	9:35:02	1.023	45.5	0.196	9:35:29	1.039	72.5	0.18
9:34:35	1.004	19.0	0.215	9:35:02	1.023	46.0	0.196	9:35:29	1.035	73.0	0.184
9:34:35	1.008	19.5	0.211	9:35:03	1.023	46.5	0.196	9:35:30	1.039	73.5	0.18
9:34:36	1.007	20.0	0.212	9:35:03	1.024	47.0	0.195	9:35:30	1.036	74.0	0.183
9:34:36	1.007	20.5	0.212	9:35:04	1.024	47.5	0.195	9:35:31	1.039	74.5	0.18
9:34:37	1.007	21.0	0.212	9:35:04	1.024	48.0	0.195	9:35:31	1.040	75.0	0.179
9:34:37	1.008	21.5	0.211	9:35:05	1.027	48.5	0.192	9:35:32	1.041	75.5	0.178
9:34:38	1.009	22.0	0.21	9:35:05	1.023	49.0	0.196	9:35:32	1.040	76.0	0.179
9:34:38	1.008	22.5	0.211	9:35:06	1.024	49.5	0.195	9:35:33	1.039	76.5	0.18
9:34:39	1.011	23.0	0.208	9:35:06	1.027	50.0	0.192	9:35:33	1.040	77.0	0.179
9:34:39	1.011	23.5	0.208	9:35:07	1.027	50.5	0.192	9:35:34	1.040	77.5	0.179
9:34:40	1.011	24.0	0.208	9:35:07	1.027	51.0	0.192	9:35:34	1.040	78.0	0.179
9:34:40	1.011	24.5	0.208	9:35:08	1.028	51.5	0.191	9:35:35	1.041	78.5	0.178
9:34:41	1.012	25.0	0.207	9:35:08	1.028	52.0	0.191	9:35:35	1.040	79.0	0.179
9:34:41	1.012	25.5	0.207	9:35:09	1.029	52.5	0.19	9:35:36	1.040	79.5	0.179
9:34:42	1.011	26.0	0.208	9:35:09	1.027	53.0	0.192	9:35:36	1.041	80.0	0.178
9:34:42	1.012	26.5	0.207	9:35:10	1.029	53.5	0.19	9:35:37	1.041	80.5	0.178

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:35:37	1.040	81.0	0.179	9:36:08	1.053	112.0	0.166	9:36:39	1.061	143.0	0.158
9:35:38	1.040	81.5	0.179	9:36:09	1.049	112.5	0.17	9:36:40	1.063	143.5	0.156
9:35:38	1.040	82.0	0.179	9:36:09	1.051	113.0	0.168	9:36:40	1.061	144.0	0.158
9:35:39	1.040	82.5	0.179	9:36:10	1.051	113.5	0.168	9:36:41	1.063	144.5	0.156
9:35:39	1.039	83.0	0.18	9:36:10	1.049	114.0	0.17	9:36:41	1.063	145.0	0.156
9:35:40	1.039	83.5	0.18	9:36:11	1.051	114.5	0.168	9:36:42	1.064	145.5	0.155
9:35:40	1.041	84.0	0.178	9:36:11	1.052	115.0	0.167	9:36:42	1.061	146.0	0.158
9:35:41	1.039	84.5	0.18	9:36:12	1.051	115.5	0.168	9:36:43	1.063	146.5	0.156
9:35:41	1.040	85.0	0.179	9:36:12	1.052	116.0	0.167	9:36:43	1.063	147.0	0.156
9:35:42	1.041	85.5	0.178	9:36:13	1.053	116.5	0.166	9:36:44	1.061	147.5	0.158
9:35:42	1.039	86.0	0.18	9:36:13	1.052	117.0	0.167	9:36:44	1.063	148.0	0.156
9:35:43	1.039	86.5	0.18	9:36:14	1.053	117.5	0.166	9:36:45	1.064	148.5	0.155
9:35:43	1.041	87.0	0.178	9:36:14	1.052	118.0	0.167	9:36:45	1.061	149.0	0.158
9:35:44	1.041	87.5	0.178	9:36:15	1.049	118.5	0.17	9:36:46	1.064	149.5	0.155
9:35:44	1.039	88.0	0.18	9:36:15	1.055	119.0	0.164	9:36:46	1.064	150.0	0.155
9:35:45	1.043	88.5	0.176	9:36:16	1.053	119.5	0.166	9:36:47	1.060	150.5	0.159
9:35:45	1.043	89.0	0.176	9:36:16	1.056	120.0	0.163	9:36:47	1.065	151.0	0.154
9:35:46	1.041	89.5	0.178	9:36:17	1.057	120.5	0.162	9:36:48	1.063	151.5	0.156
9:35:46	1.039	90.0	0.18	9:36:17	1.056	121.0	0.163	9:36:48	1.060	152.0	0.159
9:35:47	1.040	90.5	0.179	9:36:18	1.057	121.5	0.162	9:36:49	1.059	152.5	0.16
9:35:47	1.041	91.0	0.178	9:36:18	1.059	122.0	0.16	9:36:49	1.061	153.0	0.158
9:35:48	1.043	91.5	0.176	9:36:19	1.056	122.5	0.163	9:36:50	1.064	153.5	0.155
9:35:48	1.043	92.0	0.176	9:36:19	1.055	123.0	0.164	9:36:50	1.063	154.0	0.156
9:35:49	1.040	92.5	0.179	9:36:20	1.056	123.5	0.163	9:36:51	1.061	154.5	0.158
9:35:49	1.044	93.0	0.175	9:36:20	1.056	124.0	0.163	9:36:51	1.063	155.0	0.156
9:35:50	1.044	93.5	0.175	9:36:21	1.055	124.5	0.164	9:36:52	1.064	155.5	0.155
9:35:50	1.044	94.0	0.175	9:36:21	1.053	125.0	0.166	9:36:52	1.064	156.0	0.155
9:35:51	1.045	94.5	0.174	9:36:22	1.051	125.5	0.168	9:36:53	1.061	156.5	0.158
9:35:51	1.045	95.0	0.174	9:36:22	1.052	126.0	0.167	9:36:53	1.064	157.0	0.155
9:35:52	1.045	95.5	0.174	9:36:23	1.052	126.5	0.167	9:36:54	1.064	157.5	0.155
9:35:52	1.043	96.0	0.176	9:36:23	1.056	127.0	0.163	9:36:54	1.063	158.0	0.156
9:35:53	1.045	96.5	0.174	9:36:24	1.053	127.5	0.166	9:36:55	1.064	158.5	0.155
9:35:53	1.045	97.0	0.174	9:36:24	1.053	128.0	0.166	9:36:55	1.065	159.0	0.154
9:35:54	1.047	97.5	0.172	9:36:25	1.053	128.5	0.166	9:36:56	1.064	159.5	0.155
9:35:54	1.048	98.0	0.171	9:36:25	1.053	129.0	0.166	9:36:56	1.064	160.0	0.155
9:35:55	1.048	98.5	0.171	9:36:26	1.055	129.5	0.164	9:36:57	1.067	160.5	0.152
9:35:55	1.047	99.0	0.172	9:36:26	1.056	130.0	0.163	9:36:57	1.067	161.0	0.152
9:35:56	1.048	99.5	0.171	9:36:27	1.056	130.5	0.163	9:36:58	1.065	161.5	0.154
9:35:56	1.047	100.0	0.172	9:36:27	1.056	131.0	0.163	9:36:58	1.067	162.0	0.152
9:35:57	1.045	100.5	0.174	9:36:28	1.055	131.5	0.164	9:36:59	1.064	162.5	0.155
9:35:57	1.051	101.0	0.168	9:36:28	1.056	132.0	0.163	9:36:59	1.065	163.0	0.154
9:35:58	1.051	101.5	0.168	9:36:29	1.056	132.5	0.163	9:37:00	1.065	163.5	0.154
9:35:58	1.045	102.0	0.174	9:36:29	1.057	133.0	0.162	9:37:00	1.068	164.0	0.151
9:35:59	1.049	102.5	0.17	9:36:30	1.059	133.5	0.16	9:37:01	1.068	164.5	0.151
9:35:59	1.047	103.0	0.172	9:36:30	1.059	134.0	0.16	9:37:01	1.069	165.0	0.15
9:36:00	1.047	103.5	0.172	9:36:31	1.059	134.5	0.16	9:37:02	1.068	165.5	0.151
9:36:00	1.047	104.0	0.172	9:36:31	1.063	135.0	0.156	9:37:02	1.071	166.0	0.148
9:36:01	1.049	104.5	0.17	9:36:32	1.060	135.5	0.159	9:37:03	1.069	166.5	0.15
9:36:01	1.049	105.0	0.17	9:36:32	1.059	136.0	0.16	9:37:03	1.069	167.0	0.15
9:36:02	1.049	105.5	0.17	9:36:33	1.057	136.5	0.162	9:37:04	1.071	167.5	0.148
9:36:02	1.051	106.0	0.168	9:36:33	1.059	137.0	0.16	9:37:04	1.068	168.0	0.151
9:36:03	1.049	106.5	0.17	9:36:34	1.059	137.5	0.16	9:37:05	1.073	168.5	0.146
9:36:03	1.048	107.0	0.171	9:36:34	1.060	138.0	0.159	9:37:05	1.069	169.0	0.15
9:36:04	1.052	107.5	0.167	9:36:35	1.061	138.5	0.158	9:37:06	1.068	169.5	0.151
9:36:04	1.051	108.0	0.168	9:36:35	1.061	139.0	0.158	9:37:06	1.068	170.0	0.151
9:36:05	1.052	108.5	0.167	9:36:36	1.063	139.5	0.156	9:37:07	1.069	170.5	0.15
9:36:05	1.048	109.0	0.171	9:36:36	1.061	140.0	0.158	9:37:07	1.068	171.0	0.151
9:36:06	1.051	109.5	0.168	9:36:37	1.059	140.5	0.16	9:37:08	1.068	171.5	0.151
9:36:06	1.051	110.0	0.168	9:36:37	1.057	141.0	0.162	9:37:08	1.072	172.0	0.147
9:36:07	1.049	110.5	0.17	9:36:38	1.060	141.5	0.159	9:37:09	1.071	172.5	0.148
9:36:07	1.049	111.0	0.17	9:36:38	1.060	142.0	0.159	9:37:09	1.072	173.0	0.147
9:36:08	1.052	111.5	0.167	9:36:39	1.059	142.5	0.16	9:37:10	1.072	173.5	0.147

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:37:10	1.071	174.0	0.148	9:37:41	1.076	205.0	0.143	9:38:12	1.083	236.0	0.136
9:37:11	1.071	174.5	0.148	9:37:42	1.076	205.5	0.143	9:38:13	1.081	236.5	0.138
9:37:11	1.069	175.0	0.15	9:37:42	1.077	206.0	0.142	9:38:13	1.083	237.0	0.136
9:37:12	1.071	175.5	0.148	9:37:43	1.076	206.5	0.143	9:38:14	1.083	237.5	0.136
9:37:12	1.071	176.0	0.148	9:37:43	1.076	207.0	0.143	9:38:14	1.083	238.0	0.136
9:37:13	1.068	176.5	0.151	9:37:44	1.076	207.5	0.143	9:38:15	1.080	238.5	0.139
9:37:13	1.068	177.0	0.151	9:37:44	1.075	208.0	0.144	9:38:15	1.081	239.0	0.138
9:37:14	1.071	177.5	0.148	9:37:45	1.077	208.5	0.142	9:38:16	1.083	239.5	0.136
9:37:14	1.072	178.0	0.147	9:37:45	1.076	209.0	0.143	9:38:16	1.084	240.0	0.135
9:37:15	1.068	178.5	0.151	9:37:46	1.077	209.5	0.142	9:38:17	1.085	240.5	0.134
9:37:15	1.073	179.0	0.146	9:37:46	1.073	210.0	0.146	9:38:17	1.083	241.0	0.136
9:37:16	1.071	179.5	0.148	9:37:47	1.076	210.5	0.143	9:38:18	1.083	241.5	0.136
9:37:16	1.072	180.0	0.147	9:37:47	1.079	211.0	0.14	9:38:18	1.083	242.0	0.136
9:37:17	1.073	180.5	0.146	9:37:48	1.076	211.5	0.143	9:38:19	1.083	242.5	0.136
9:37:17	1.071	181.0	0.148	9:37:48	1.080	212.0	0.139	9:38:19	1.084	243.0	0.135
9:37:18	1.071	181.5	0.148	9:37:49	1.080	212.5	0.139	9:38:20	1.081	243.5	0.138
9:37:18	1.071	182.0	0.148	9:37:49	1.079	213.0	0.14	9:38:20	1.084	244.0	0.135
9:37:19	1.073	182.5	0.146	9:37:50	1.079	213.5	0.14	9:38:21	1.087	244.5	0.132
9:37:19	1.076	183.0	0.143	9:37:50	1.079	214.0	0.14	9:38:21	1.084	245.0	0.135
9:37:20	1.073	183.5	0.146	9:37:51	1.077	214.5	0.142	9:38:22	1.083	245.5	0.136
9:37:20	1.073	184.0	0.146	9:37:51	1.076	215.0	0.143	9:38:22	1.087	246.0	0.132
9:37:21	1.076	184.5	0.143	9:37:52	1.079	215.5	0.14	9:38:23	1.084	246.5	0.135
9:37:21	1.075	185.0	0.144	9:37:52	1.080	216.0	0.139	9:38:23	1.085	247.0	0.134
9:37:22	1.075	185.5	0.144	9:37:53	1.080	216.5	0.139	9:38:24	1.085	247.5	0.134
9:37:22	1.075	186.0	0.144	9:37:53	1.079	217.0	0.14	9:38:24	1.085	248.0	0.134
9:37:23	1.077	186.5	0.142	9:37:54	1.080	217.5	0.139	9:38:25	1.085	248.5	0.134
9:37:23	1.076	187.0	0.143	9:37:54	1.077	218.0	0.142	9:38:25	1.085	249.0	0.134
9:37:24	1.077	187.5	0.142	9:37:55	1.079	218.5	0.14	9:38:26	1.084	249.5	0.135
9:37:24	1.076	188.0	0.143	9:37:55	1.081	219.0	0.138	9:38:26	1.085	250.0	0.134
9:37:25	1.077	188.5	0.142	9:37:56	1.079	219.5	0.14	9:38:27	1.087	250.5	0.132
9:37:25	1.071	189.0	0.148	9:37:56	1.077	220.0	0.142	9:38:27	1.087	251.0	0.132
9:37:26	1.072	189.5	0.147	9:37:57	1.077	220.5	0.142	9:38:28	1.087	251.5	0.132
9:37:26	1.073	190.0	0.146	9:37:57	1.076	221.0	0.143	9:38:28	1.085	252.0	0.134
9:37:27	1.076	190.5	0.143	9:37:58	1.079	221.5	0.14	9:38:29	1.085	252.5	0.134
9:37:27	1.076	191.0	0.143	9:37:58	1.081	222.0	0.138	9:38:29	1.084	253.0	0.135
9:37:28	1.075	191.5	0.144	9:37:59	1.080	222.5	0.139	9:38:30	1.085	253.5	0.134
9:37:28	1.076	192.0	0.143	9:37:59	1.081	223.0	0.138	9:38:30	1.087	254.0	0.132
9:37:29	1.076	192.5	0.143	9:38:00	1.079	223.5	0.14	9:38:31	1.087	254.5	0.132
9:37:29	1.076	193.0	0.143	9:38:00	1.080	224.0	0.139	9:38:31	1.089	255.0	0.13
9:37:30	1.076	193.5	0.143	9:38:01	1.083	224.5	0.136	9:38:32	1.085	255.5	0.134
9:37:30	1.076	194.0	0.143	9:38:01	1.080	225.0	0.139	9:38:32	1.085	256.0	0.134
9:37:31	1.076	194.5	0.143	9:38:02	1.079	225.5	0.14	9:38:33	1.087	256.5	0.132
9:37:31	1.076	195.0	0.143	9:38:02	1.079	226.0	0.14	9:38:33	1.084	257.0	0.135
9:37:32	1.075	195.5	0.144	9:38:03	1.081	226.5	0.138	9:38:34	1.088	257.5	0.131
9:37:32	1.072	196.0	0.147	9:38:03	1.080	227.0	0.139	9:38:34	1.088	258.0	0.131
9:37:33	1.072	196.5	0.147	9:38:04	1.083	227.5	0.136	9:38:35	1.089	258.5	0.13
9:37:33	1.073	197.0	0.146	9:38:04	1.081	228.0	0.138	9:38:35	1.085	259.0	0.134
9:37:34	1.072	197.5	0.147	9:38:05	1.085	228.5	0.134	9:38:36	1.089	259.5	0.13
9:37:34	1.072	198.0	0.147	9:38:05	1.081	229.0	0.138	9:38:36	1.092	260.0	0.127
9:37:35	1.075	198.5	0.144	9:38:06	1.081	229.5	0.138	9:38:37	1.088	260.5	0.131
9:37:35	1.076	199.0	0.143	9:38:06	1.087	230.0	0.132	9:38:37	1.087	261.0	0.132
9:37:36	1.076	199.5	0.143	9:38:07	1.081	230.5	0.138	9:38:38	1.092	261.5	0.127
9:37:36	1.077	200.0	0.142	9:38:07	1.083	231.0	0.136	9:38:38	1.089	262.0	0.13
9:37:37	1.077	200.5	0.142	9:38:08	1.083	231.5	0.136	9:38:39	1.089	262.5	0.13
9:37:37	1.077	201.0	0.142	9:38:08	1.084	232.0	0.135	9:38:39	1.091	263.0	0.128
9:37:38	1.077	201.5	0.142	9:38:09	1.083	232.5	0.136	9:38:40	1.089	263.5	0.13
9:37:38	1.077	202.0	0.142	9:38:09	1.080	233.0	0.139	9:38:40	1.089	264.0	0.13
9:37:39	1.073	202.5	0.146	9:38:10	1.084	233.5	0.135	9:38:41	1.088	264.5	0.131
9:37:39	1.075	203.0	0.144	9:38:10	1.083	234.0	0.136	9:38:41	1.087	265.0	0.132
9:37:40	1.076	203.5	0.143	9:38:11	1.084	234.5	0.135	9:38:42	1.088	265.5	0.131
9:37:40	1.076	204.0	0.143	9:38:11	1.081	235.0	0.138	9:38:42	1.087	266.0	0.132
9:37:41	1.079	204.5	0.14	9:38:12	1.084	235.5	0.135	9:38:43	1.087	266.5	0.132

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:38:43	1.089	267.0	0.13	9:39:14	1.091	298.0	0.128	9:39:45	1.100	329.0	0.119
9:38:44	1.087	267.5	0.132	9:39:15	1.093	298.5	0.126	9:39:46	1.101	329.5	0.118
9:38:44	1.088	268.0	0.131	9:39:15	1.091	299.0	0.128	9:39:46	1.100	330.0	0.119
9:38:45	1.089	268.5	0.13	9:39:16	1.093	299.5	0.126	9:39:47	1.101	330.5	0.118
9:38:45	1.091	269.0	0.128	9:39:16	1.091	300.0	0.128	9:39:47	1.101	331.0	0.118
9:38:46	1.091	269.5	0.128	9:39:17	1.092	300.5	0.127	9:39:48	1.101	331.5	0.118
9:38:46	1.089	270.0	0.13	9:39:17	1.095	301.0	0.124	9:39:48	1.100	332.0	0.119
9:38:47	1.092	270.5	0.127	9:39:18	1.095	301.5	0.124	9:39:49	1.101	332.5	0.118
9:38:47	1.089	271.0	0.13	9:39:18	1.095	302.0	0.124	9:39:49	1.097	333.0	0.122
9:38:48	1.093	271.5	0.126	9:39:19	1.097	302.5	0.122	9:39:50	1.097	333.5	0.122
9:38:48	1.092	272.0	0.127	9:39:19	1.093	303.0	0.126	9:39:50	1.099	334.0	0.12
9:38:49	1.091	272.5	0.128	9:39:20	1.095	303.5	0.124	9:39:51	1.100	334.5	0.119
9:38:49	1.089	273.0	0.13	9:39:20	1.093	304.0	0.126	9:39:51	1.099	335.0	0.12
9:38:50	1.092	273.5	0.127	9:39:21	1.093	304.5	0.126	9:39:52	1.097	335.5	0.122
9:38:50	1.091	274.0	0.128	9:39:21	1.093	305.0	0.126	9:39:52	1.100	336.0	0.119
9:38:51	1.089	274.5	0.13	9:39:22	1.096	305.5	0.123	9:39:53	1.100	336.5	0.119
9:38:51	1.088	275.0	0.131	9:39:22	1.093	306.0	0.126	9:39:53	1.101	337.0	0.118
9:38:52	1.092	275.5	0.127	9:39:23	1.092	306.5	0.127	9:39:54	1.101	337.5	0.118
9:38:52	1.092	276.0	0.127	9:39:23	1.091	307.0	0.128	9:39:54	1.100	338.0	0.119
9:38:53	1.091	276.5	0.128	9:39:24	1.093	307.5	0.126	9:39:55	1.097	338.5	0.122
9:38:53	1.092	277.0	0.127	9:39:24	1.093	308.0	0.126	9:39:55	1.100	339.0	0.119
9:38:54	1.091	277.5	0.128	9:39:25	1.097	308.5	0.122	9:39:56	1.100	339.5	0.119
9:38:54	1.092	278.0	0.127	9:39:25	1.096	309.0	0.123	9:39:56	1.101	340.0	0.118
9:38:55	1.092	278.5	0.127	9:39:26	1.097	309.5	0.122	9:39:57	1.101	340.5	0.118
9:38:55	1.088	279.0	0.131	9:39:26	1.096	310.0	0.123	9:39:57	1.103	341.0	0.116
9:38:56	1.091	279.5	0.128	9:39:27	1.097	310.5	0.122	9:39:58	1.103	341.5	0.116
9:38:56	1.091	280.0	0.128	9:39:27	1.095	311.0	0.124	9:39:58	1.104	342.0	0.115
9:38:57	1.091	280.5	0.128	9:39:28	1.096	311.5	0.123	9:39:59	1.103	342.5	0.116
9:38:57	1.089	281.0	0.13	9:39:28	1.096	312.0	0.123	9:39:59	1.103	343.0	0.116
9:38:58	1.089	281.5	0.13	9:39:29	1.099	312.5	0.12	9:40:00	1.104	343.5	0.115
9:38:58	1.089	282.0	0.13	9:39:29	1.097	313.0	0.122	9:40:00	1.101	344.0	0.118
9:38:59	1.092	282.5	0.127	9:39:30	1.099	313.5	0.12	9:40:01	1.104	344.5	0.115
9:38:59	1.092	283.0	0.127	9:39:30	1.099	314.0	0.12	9:40:01	1.104	345.0	0.115
9:39:00	1.093	283.5	0.126	9:39:31	1.099	314.5	0.12	9:40:02	1.104	345.5	0.115
9:39:00	1.091	284.0	0.128	9:39:31	1.100	315.0	0.119	9:40:02	1.103	346.0	0.116
9:39:01	1.091	284.5	0.128	9:39:32	1.100	315.5	0.119	9:40:03	1.103	346.5	0.116
9:39:01	1.092	285.0	0.127	9:39:32	1.100	316.0	0.119	9:40:03	1.100	347.0	0.119
9:39:02	1.091	285.5	0.128	9:39:33	1.099	316.5	0.12	9:40:04	1.103	347.5	0.116
9:39:02	1.091	286.0	0.128	9:39:33	1.100	317.0	0.119	9:40:04	1.101	348.0	0.118
9:39:03	1.091	286.5	0.128	9:39:34	1.100	317.5	0.119	9:40:05	1.101	348.5	0.118
9:39:03	1.092	287.0	0.127	9:39:34	1.100	318.0	0.119	9:40:05	1.103	349.0	0.116
9:39:04	1.097	287.5	0.122	9:39:35	1.099	318.5	0.12	9:40:06	1.101	349.5	0.118
9:39:04	1.093	288.0	0.126	9:39:35	1.100	319.0	0.119	9:40:06	1.104	350.0	0.115
9:39:05	1.092	288.5	0.127	9:39:36	1.103	319.5	0.116	9:40:07	1.103	350.5	0.116
9:39:05	1.093	289.0	0.126	9:39:36	1.100	320.0	0.119	9:40:07	1.107	351.0	0.112
9:39:06	1.093	289.5	0.126	9:39:37	1.100	320.5	0.119	9:40:08	1.103	351.5	0.116
9:39:06	1.095	290.0	0.124	9:39:37	1.100	321.0	0.119	9:40:08	1.103	352.0	0.116
9:39:07	1.096	290.5	0.123	9:39:38	1.101	321.5	0.118	9:40:09	1.103	352.5	0.116
9:39:07	1.093	291.0	0.126	9:39:38	1.101	322.0	0.118	9:40:09	1.104	353.0	0.115
9:39:08	1.096	291.5	0.123	9:39:39	1.099	322.5	0.12	9:40:10	1.105	353.5	0.114
9:39:08	1.095	292.0	0.124	9:39:39	1.100	323.0	0.119	9:40:10	1.104	354.0	0.115
9:39:09	1.097	292.5	0.122	9:39:40	1.100	323.5	0.119	9:40:11	1.104	354.5	0.115
9:39:09	1.097	293.0	0.122	9:39:40	1.100	324.0	0.119	9:40:11	1.104	355.0	0.115
9:39:10	1.099	293.5	0.12	9:39:41	1.096	324.5	0.123	9:40:12	1.104	355.5	0.115
9:39:10	1.099	294.0	0.12	9:39:41	1.101	325.0	0.118	9:40:12	1.105	356.0	0.114
9:39:11	1.097	294.5	0.122	9:39:42	1.101	325.5	0.118	9:40:13	1.105	356.5	0.114
9:39:11	1.092	295.0	0.127	9:39:42	1.100	326.0	0.119	9:40:13	1.104	357.0	0.115
9:39:12	1.093	295.5	0.126	9:39:43	1.100	326.5	0.119	9:40:14	1.104	357.5	0.115
9:39:12	1.091	296.0	0.128	9:39:43	1.097	327.0	0.122	9:40:14	1.104	358.0	0.115
9:39:13	1.091	296.5	0.128	9:39:44	1.099	327.5	0.12	9:40:15	1.104	358.5	0.115
9:39:13	1.091	297.0	0.128	9:39:44	1.097	328.0	0.122	9:40:15	1.104	359.0	0.115
9:39:14	1.095	297.5	0.124	9:39:45	1.101	328.5	0.118	9:40:16	1.105	359.5	0.114

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:40:16	1.104	360.0	0.115	9:40:47	1.109	391.0	0.11	9:41:18	1.115	422.0	0.104
9:40:17	1.104	360.5	0.115	9:40:48	1.109	391.5	0.11	9:41:19	1.116	422.5	0.103
9:40:17	1.103	361.0	0.116	9:40:48	1.109	392.0	0.11	9:41:19	1.116	423.0	0.103
9:40:18	1.104	361.5	0.115	9:40:49	1.111	392.5	0.108	9:41:20	1.116	423.5	0.103
9:40:18	1.105	362.0	0.114	9:40:49	1.112	393.0	0.107	9:41:20	1.115	424.0	0.104
9:40:19	1.105	362.5	0.114	9:40:50	1.109	393.5	0.11	9:41:21	1.116	424.5	0.103
9:40:19	1.104	363.0	0.115	9:40:50	1.109	394.0	0.11	9:41:21	1.115	425.0	0.104
9:40:20	1.107	363.5	0.112	9:40:51	1.111	394.5	0.108	9:41:22	1.116	425.5	0.103
9:40:20	1.108	364.0	0.111	9:40:51	1.109	395.0	0.11	9:41:22	1.116	426.0	0.103
9:40:21	1.109	364.5	0.11	9:40:52	1.112	395.5	0.107	9:41:23	1.115	426.5	0.104
9:40:21	1.105	365.0	0.114	9:40:52	1.111	396.0	0.108	9:41:23	1.116	427.0	0.103
9:40:22	1.107	365.5	0.112	9:40:53	1.112	396.5	0.107	9:41:24	1.115	427.5	0.104
9:40:22	1.105	366.0	0.114	9:40:53	1.113	397.0	0.106	9:41:24	1.115	428.0	0.104
9:40:23	1.108	366.5	0.111	9:40:54	1.111	397.5	0.108	9:41:25	1.115	428.5	0.104
9:40:23	1.111	367.0	0.108	9:40:54	1.111	398.0	0.108	9:41:25	1.112	429.0	0.107
9:40:24	1.109	367.5	0.11	9:40:55	1.109	398.5	0.11	9:41:26	1.113	429.5	0.106
9:40:24	1.109	368.0	0.11	9:40:55	1.112	399.0	0.107	9:41:26	1.116	430.0	0.103
9:40:25	1.107	368.5	0.112	9:40:56	1.111	399.5	0.108	9:41:27	1.115	430.5	0.104
9:40:25	1.109	369.0	0.11	9:40:56	1.112	400.0	0.107	9:41:27	1.113	431.0	0.106
9:40:26	1.107	369.5	0.112	9:40:57	1.112	400.5	0.107	9:41:28	1.113	431.5	0.106
9:40:26	1.108	370.0	0.111	9:40:57	1.112	401.0	0.107	9:41:28	1.115	432.0	0.104
9:40:27	1.107	370.5	0.112	9:40:58	1.112	401.5	0.107	9:41:29	1.112	432.5	0.107
9:40:27	1.109	371.0	0.11	9:40:58	1.111	402.0	0.108	9:41:29	1.116	433.0	0.103
9:40:28	1.107	371.5	0.112	9:40:59	1.111	402.5	0.108	9:41:30	1.116	433.5	0.103
9:40:28	1.109	372.0	0.11	9:40:59	1.113	403.0	0.106	9:41:30	1.113	434.0	0.106
9:40:29	1.107	372.5	0.112	9:41:00	1.112	403.5	0.107	9:41:31	1.113	434.5	0.106
9:40:29	1.108	373.0	0.111	9:41:00	1.109	404.0	0.11	9:41:31	1.115	435.0	0.104
9:40:30	1.108	373.5	0.111	9:41:01	1.109	404.5	0.11	9:41:32	1.117	435.5	0.102
9:40:30	1.104	374.0	0.115	9:41:01	1.115	405.0	0.104	9:41:32	1.117	436.0	0.102
9:40:31	1.107	374.5	0.112	9:41:02	1.113	405.5	0.106	9:41:33	1.117	436.5	0.102
9:40:31	1.107	375.0	0.112	9:41:02	1.113	406.0	0.106	9:41:33	1.117	437.0	0.102
9:40:32	1.109	375.5	0.11	9:41:03	1.113	406.5	0.106	9:41:34	1.112	437.5	0.107
9:40:32	1.107	376.0	0.112	9:41:03	1.111	407.0	0.108	9:41:34	1.116	438.0	0.103
9:40:33	1.108	376.5	0.111	9:41:04	1.111	407.5	0.108	9:41:35	1.117	438.5	0.102
9:40:33	1.109	377.0	0.11	9:41:04	1.109	408.0	0.11	9:41:35	1.119	439.0	0.1
9:40:34	1.109	377.5	0.11	9:41:05	1.112	408.5	0.107	9:41:36	1.115	439.5	0.104
9:40:34	1.109	378.0	0.11	9:41:05	1.116	409.0	0.103	9:41:36	1.117	440.0	0.102
9:40:35	1.111	378.5	0.108	9:41:06	1.115	409.5	0.104	9:41:37	1.117	440.5	0.102
9:40:35	1.111	379.0	0.108	9:41:06	1.116	410.0	0.103	9:41:37	1.115	441.0	0.104
9:40:36	1.109	379.5	0.11	9:41:07	1.113	410.5	0.106	9:41:38	1.115	441.5	0.104
9:40:36	1.109	380.0	0.11	9:41:07	1.115	411.0	0.104	9:41:38	1.113	442.0	0.106
9:40:37	1.109	380.5	0.11	9:41:08	1.115	411.5	0.104	9:41:39	1.115	442.5	0.104
9:40:37	1.109	381.0	0.11	9:41:08	1.115	412.0	0.104	9:41:39	1.113	443.0	0.106
9:40:38	1.108	381.5	0.111	9:41:09	1.116	412.5	0.103	9:41:40	1.115	443.5	0.104
9:40:38	1.109	382.0	0.11	9:41:09	1.115	413.0	0.104	9:41:40	1.117	444.0	0.102
9:40:39	1.108	382.5	0.111	9:41:10	1.113	413.5	0.106	9:41:41	1.116	444.5	0.103
9:40:39	1.108	383.0	0.111	9:41:10	1.116	414.0	0.103	9:41:41	1.116	445.0	0.103
9:40:40	1.109	383.5	0.11	9:41:11	1.116	414.5	0.103	9:41:42	1.116	445.5	0.103
9:40:40	1.109	384.0	0.11	9:41:11	1.116	415.0	0.103	9:41:42	1.120	446.0	0.099
9:40:41	1.111	384.5	0.108	9:41:12	1.115	415.5	0.104	9:41:43	1.119	446.5	0.1
9:40:41	1.109	385.0	0.11	9:41:12	1.115	416.0	0.104	9:41:43	1.120	447.0	0.099
9:40:42	1.108	385.5	0.111	9:41:13	1.112	416.5	0.107	9:41:44	1.119	447.5	0.1
9:40:42	1.108	386.0	0.111	9:41:13	1.115	417.0	0.104	9:41:44	1.120	448.0	0.099
9:40:43	1.107	386.5	0.112	9:41:14	1.113	417.5	0.106	9:41:45	1.119	448.5	0.1
9:40:43	1.108	387.0	0.111	9:41:14	1.115	418.0	0.104	9:41:45	1.121	449.0	0.098
9:40:44	1.109	387.5	0.11	9:41:15	1.112	418.5	0.107	9:41:46	1.117	449.5	0.102
9:40:44	1.109	388.0	0.11	9:41:15	1.112	419.0	0.107	9:41:46	1.121	450.0	0.098
9:40:45	1.109	388.5	0.11	9:41:16	1.112	419.5	0.107	9:41:47	1.120	450.5	0.099
9:40:45	1.108	389.0	0.111	9:41:16	1.112	420.0	0.107	9:41:47	1.119	451.0	0.1
9:40:46	1.109	389.5	0.11	9:41:17	1.115	420.5	0.104	9:41:48	1.115	451.5	0.104
9:40:46	1.111	390.0	0.108	9:41:17	1.113	421.0	0.106	9:41:48	1.119	452.0	0.1
9:40:47	1.109	390.5	0.11	9:41:18	1.113	421.5	0.106	9:41:49	1.117	452.5	0.102

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:41:49	1.120	453.0	0.099	9:42:20	1.120	484.0	0.099	9:42:51	1.124	515.0	0.095
9:41:50	1.119	453.5	0.1	9:42:21	1.121	484.5	0.098	9:42:52	1.124	515.5	0.095
9:41:50	1.119	454.0	0.1	9:42:21	1.117	485.0	0.102	9:42:52	1.127	516.0	0.092
9:41:51	1.117	454.5	0.102	9:42:22	1.119	485.5	0.1	9:42:53	1.125	516.5	0.094
9:41:51	1.120	455.0	0.099	9:42:22	1.123	486.0	0.096	9:42:53	1.128	517.0	0.091
9:41:52	1.120	455.5	0.099	9:42:23	1.119	486.5	0.1	9:42:54	1.127	517.5	0.092
9:41:52	1.120	456.0	0.099	9:42:23	1.119	487.0	0.1	9:42:54	1.127	518.0	0.092
9:41:53	1.120	456.5	0.099	9:42:24	1.121	487.5	0.098	9:42:55	1.124	518.5	0.095
9:41:53	1.120	457.0	0.099	9:42:24	1.123	488.0	0.096	9:42:55	1.127	519.0	0.092
9:41:54	1.119	457.5	0.1	9:42:25	1.123	488.5	0.096	9:42:56	1.124	519.5	0.095
9:41:54	1.119	458.0	0.1	9:42:25	1.124	489.0	0.095	9:42:56	1.125	520.0	0.094
9:41:55	1.123	458.5	0.096	9:42:26	1.123	489.5	0.096	9:42:57	1.125	520.5	0.094
9:41:55	1.121	459.0	0.098	9:42:26	1.124	490.0	0.095	9:42:57	1.125	521.0	0.094
9:41:56	1.120	459.5	0.099	9:42:27	1.123	490.5	0.096	9:42:58	1.128	521.5	0.091
9:41:56	1.120	460.0	0.099	9:42:27	1.123	491.0	0.096	9:42:58	1.127	522.0	0.092
9:41:57	1.121	460.5	0.098	9:42:28	1.124	491.5	0.095	9:42:59	1.127	522.5	0.092
9:41:57	1.119	461.0	0.1	9:42:28	1.124	492.0	0.095	9:42:59	1.125	523.0	0.094
9:41:58	1.120	461.5	0.099	9:42:29	1.124	492.5	0.095	9:43:00	1.128	523.5	0.091
9:41:58	1.119	462.0	0.1	9:42:29	1.124	493.0	0.095	9:43:00	1.125	524.0	0.094
9:41:59	1.121	462.5	0.098	9:42:30	1.124	493.5	0.095	9:43:01	1.125	524.5	0.094
9:41:59	1.119	463.0	0.1	9:42:30	1.124	494.0	0.095	9:43:01	1.125	525.0	0.094
9:42:00	1.123	463.5	0.096	9:42:31	1.123	494.5	0.096	9:43:02	1.127	525.5	0.092
9:42:00	1.120	464.0	0.099	9:42:31	1.120	495.0	0.099	9:43:02	1.128	526.0	0.091
9:42:01	1.120	464.5	0.099	9:42:32	1.120	495.5	0.099	9:43:03	1.127	526.5	0.092
9:42:01	1.120	465.0	0.099	9:42:32	1.127	496.0	0.092	9:43:03	1.127	527.0	0.092
9:42:02	1.121	465.5	0.098	9:42:33	1.124	496.5	0.095	9:43:04	1.125	527.5	0.094
9:42:02	1.119	466.0	0.1	9:42:33	1.124	497.0	0.095	9:43:04	1.127	528.0	0.092
9:42:03	1.121	466.5	0.098	9:42:34	1.121	497.5	0.098	9:43:05	1.128	528.5	0.091
9:42:03	1.121	467.0	0.098	9:42:34	1.121	498.0	0.098	9:43:05	1.127	529.0	0.092
9:42:04	1.120	467.5	0.099	9:42:35	1.124	498.5	0.095	9:43:06	1.128	529.5	0.091
9:42:04	1.121	468.0	0.098	9:42:35	1.124	499.0	0.095	9:43:06	1.131	530.0	0.088
9:42:05	1.121	468.5	0.098	9:42:36	1.123	499.5	0.096	9:43:07	1.128	530.5	0.091
9:42:05	1.120	469.0	0.099	9:42:36	1.123	500.0	0.096	9:43:07	1.128	531.0	0.091
9:42:06	1.124	469.5	0.095	9:42:37	1.123	500.5	0.096	9:43:08	1.128	531.5	0.091
9:42:06	1.120	470.0	0.099	9:42:37	1.120	501.0	0.099	9:43:08	1.131	532.0	0.088
9:42:07	1.123	470.5	0.096	9:42:38	1.121	501.5	0.098	9:43:09	1.129	532.5	0.09
9:42:07	1.121	471.0	0.098	9:42:38	1.125	502.0	0.094	9:43:09	1.127	533.0	0.092
9:42:08	1.121	471.5	0.098	9:42:39	1.121	502.5	0.098	9:43:10	1.128	533.5	0.091
9:42:08	1.120	472.0	0.099	9:42:39	1.123	503.0	0.096	9:43:10	1.125	534.0	0.094
9:42:09	1.123	472.5	0.096	9:42:40	1.124	503.5	0.095	9:43:11	1.127	534.5	0.092
9:42:09	1.121	473.0	0.098	9:42:40	1.121	504.0	0.098	9:43:11	1.128	535.0	0.091
9:42:10	1.120	473.5	0.099	9:42:41	1.124	504.5	0.095	9:43:12	1.128	535.5	0.091
9:42:10	1.120	474.0	0.099	9:42:41	1.121	505.0	0.098	9:43:12	1.127	536.0	0.092
9:42:11	1.121	474.5	0.098	9:42:42	1.123	505.5	0.096	9:43:13	1.129	536.5	0.09
9:42:11	1.120	475.0	0.099	9:42:42	1.120	506.0	0.099	9:43:13	1.129	537.0	0.09
9:42:12	1.121	475.5	0.098	9:42:43	1.121	506.5	0.098	9:43:14	1.131	537.5	0.088
9:42:12	1.121	476.0	0.098	9:42:43	1.121	507.0	0.098	9:43:14	1.128	538.0	0.091
9:42:13	1.123	476.5	0.096	9:42:44	1.121	507.5	0.098	9:43:15	1.129	538.5	0.09
9:42:13	1.120	477.0	0.099	9:42:44	1.125	508.0	0.094	9:43:15	1.129	539.0	0.09
9:42:14	1.120	477.5	0.099	9:42:45	1.124	508.5	0.095	9:43:16	1.128	539.5	0.091
9:42:14	1.124	478.0	0.095	9:42:45	1.125	509.0	0.094	9:43:16	1.131	540.0	0.088
9:42:15	1.123	478.5	0.096	9:42:46	1.125	509.5	0.094	9:43:17	1.128	540.5	0.091
9:42:15	1.120	479.0	0.099	9:42:46	1.125	510.0	0.094	9:43:17	1.128	541.0	0.091
9:42:16	1.123	479.5	0.096	9:42:47	1.125	510.5	0.094	9:43:18	1.124	541.5	0.095
9:42:16	1.124	480.0	0.095	9:42:47	1.125	511.0	0.094	9:43:18	1.127	542.0	0.092
9:42:17	1.124	480.5	0.095	9:42:48	1.125	511.5	0.094	9:43:19	1.128	542.5	0.091
9:42:17	1.124	481.0	0.095	9:42:48	1.123	512.0	0.096	9:43:19	1.128	543.0	0.091
9:42:18	1.123	481.5	0.096	9:42:49	1.124	512.5	0.095	9:43:20	1.128	543.5	0.091
9:42:18	1.120	482.0	0.099	9:42:49	1.124	513.0	0.095	9:43:20	1.127	544.0	0.092
9:42:19	1.120	482.5	0.099	9:42:50	1.124	513.5	0.095	9:43:21	1.127	544.5	0.092
9:42:19	1.121	483.0	0.098	9:42:50	1.123	514.0	0.096	9:43:21	1.128	545.0	0.091
9:42:20	1.121	483.5	0.098	9:42:51	1.124	514.5	0.095	9:43:22	1.128	545.5	0.091

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:43:22	1.128	546.0	0.091	9:43:53	1.136	577.0	0.083	9:44:24	1.136	608.0	0.083
9:43:23	1.129	546.5	0.09	9:43:54	1.136	577.5	0.083	9:44:25	1.135	608.5	0.084
9:43:23	1.128	547.0	0.091	9:43:54	1.136	578.0	0.083	9:44:25	1.137	609.0	0.082
9:43:24	1.129	547.5	0.09	9:43:55	1.137	578.5	0.082	9:44:26	1.136	609.5	0.083
9:43:24	1.131	548.0	0.088	9:43:55	1.139	579.0	0.08	9:44:26	1.136	610.0	0.083
9:43:25	1.129	548.5	0.09	9:43:56	1.137	579.5	0.082	9:44:27	1.137	610.5	0.082
9:43:25	1.128	549.0	0.091	9:43:56	1.137	580.0	0.082	9:44:27	1.136	611.0	0.083
9:43:26	1.131	549.5	0.088	9:43:57	1.139	580.5	0.08	9:44:28	1.137	611.5	0.082
9:43:26	1.128	550.0	0.091	9:43:57	1.139	581.0	0.08	9:44:28	1.136	612.0	0.083
9:43:27	1.129	550.5	0.09	9:43:58	1.139	581.5	0.08	9:44:29	1.137	612.5	0.082
9:43:27	1.128	551.0	0.091	9:43:58	1.137	582.0	0.082	9:44:29	1.139	613.0	0.08
9:43:28	1.128	551.5	0.091	9:43:59	1.136	582.5	0.083	9:44:30	1.139	613.5	0.08
9:43:28	1.131	552.0	0.088	9:43:59	1.136	583.0	0.083	9:44:30	1.139	614.0	0.08
9:43:29	1.127	552.5	0.092	9:44:00	1.136	583.5	0.083	9:44:31	1.139	614.5	0.08
9:43:29	1.129	553.0	0.09	9:44:00	1.136	584.0	0.083	9:44:31	1.140	615.0	0.079
9:43:30	1.129	553.5	0.09	9:44:01	1.137	584.5	0.082	9:44:32	1.140	615.5	0.079
9:43:30	1.128	554.0	0.091	9:44:01	1.136	585.0	0.083	9:44:32	1.139	616.0	0.08
9:43:31	1.129	554.5	0.09	9:44:02	1.135	585.5	0.084	9:44:33	1.137	616.5	0.082
9:43:31	1.128	555.0	0.091	9:44:02	1.137	586.0	0.082	9:44:33	1.137	617.0	0.082
9:43:32	1.129	555.5	0.09	9:44:03	1.133	586.5	0.086	9:44:34	1.140	617.5	0.079
9:43:32	1.129	556.0	0.09	9:44:03	1.135	587.0	0.084	9:44:34	1.139	618.0	0.08
9:43:33	1.131	556.5	0.088	9:44:04	1.133	587.5	0.086	9:44:35	1.139	618.5	0.08
9:43:33	1.132	557.0	0.087	9:44:04	1.133	588.0	0.086	9:44:35	1.139	619.0	0.08
9:43:34	1.131	557.5	0.088	9:44:05	1.135	588.5	0.084	9:44:36	1.137	619.5	0.082
9:43:34	1.129	558.0	0.09	9:44:05	1.135	589.0	0.084	9:44:36	1.139	620.0	0.08
9:43:35	1.129	558.5	0.09	9:44:06	1.135	589.5	0.084	9:44:37	1.137	620.5	0.082
9:43:35	1.131	559.0	0.088	9:44:06	1.135	590.0	0.084	9:44:37	1.139	621.0	0.08
9:43:36	1.131	559.5	0.088	9:44:07	1.135	590.5	0.084	9:44:38	1.136	621.5	0.083
9:43:36	1.132	560.0	0.087	9:44:07	1.133	591.0	0.086	9:44:38	1.140	622.0	0.079
9:43:37	1.132	560.5	0.087	9:44:08	1.132	591.5	0.087	9:44:39	1.137	622.5	0.082
9:43:37	1.131	561.0	0.088	9:44:08	1.136	592.0	0.083	9:44:39	1.139	623.0	0.08
9:43:38	1.129	561.5	0.09	9:44:09	1.136	592.5	0.083	9:44:40	1.136	623.5	0.083
9:43:38	1.131	562.0	0.088	9:44:09	1.133	593.0	0.086	9:44:40	1.135	624.0	0.084
9:43:39	1.128	562.5	0.091	9:44:10	1.135	593.5	0.084	9:44:41	1.135	624.5	0.084
9:43:39	1.131	563.0	0.088	9:44:10	1.133	594.0	0.086	9:44:41	1.137	625.0	0.082
9:43:40	1.132	563.5	0.087	9:44:11	1.136	594.5	0.083	9:44:42	1.136	625.5	0.083
9:43:40	1.132	564.0	0.087	9:44:11	1.135	595.0	0.084	9:44:42	1.139	626.0	0.08
9:43:41	1.133	564.5	0.086	9:44:12	1.136	595.5	0.083	9:44:43	1.135	626.5	0.084
9:43:41	1.135	565.0	0.084	9:44:12	1.139	596.0	0.08	9:44:43	1.139	627.0	0.08
9:43:42	1.133	565.5	0.086	9:44:13	1.135	596.5	0.084	9:44:44	1.140	627.5	0.079
9:43:42	1.133	566.0	0.086	9:44:13	1.139	597.0	0.08	9:44:44	1.137	628.0	0.082
9:43:43	1.131	566.5	0.088	9:44:14	1.137	597.5	0.082	9:44:45	1.136	628.5	0.083
9:43:43	1.132	567.0	0.087	9:44:14	1.139	598.0	0.08	9:44:45	1.137	629.0	0.082
9:43:44	1.133	567.5	0.086	9:44:15	1.136	598.5	0.083	9:44:46	1.139	629.5	0.08
9:43:44	1.135	568.0	0.084	9:44:15	1.139	599.0	0.08	9:44:46	1.136	630.0	0.083
9:43:45	1.136	568.5	0.083	9:44:16	1.139	599.5	0.08	9:44:47	1.136	630.5	0.083
9:43:45	1.135	569.0	0.084	9:44:16	1.140	600.0	0.079	9:44:47	1.136	631.0	0.083
9:43:46	1.133	569.5	0.086	9:44:17	1.137	600.5	0.082	9:44:48	1.133	631.5	0.086
9:43:46	1.135	570.0	0.084	9:44:17	1.136	601.0	0.083	9:44:48	1.133	632.0	0.086
9:43:47	1.133	570.5	0.086	9:44:18	1.139	601.5	0.08	9:44:49	1.136	632.5	0.083
9:43:47	1.133	571.0	0.086	9:44:18	1.136	602.0	0.083	9:44:49	1.137	633.0	0.082
9:43:48	1.135	571.5	0.084	9:44:19	1.139	602.5	0.08	9:44:50	1.141	633.5	0.078
9:43:48	1.132	572.0	0.087	9:44:19	1.135	603.0	0.084	9:44:50	1.137	634.0	0.082
9:43:49	1.135	572.5	0.084	9:44:20	1.136	603.5	0.083	9:44:51	1.141	634.5	0.078
9:43:49	1.135	573.0	0.084	9:44:20	1.136	604.0	0.083	9:44:51	1.141	635.0	0.078
9:43:50	1.139	573.5	0.08	9:44:21	1.137	604.5	0.082	9:44:52	1.137	635.5	0.082
9:43:50	1.137	574.0	0.082	9:44:21	1.136	605.0	0.083	9:44:52	1.139	636.0	0.08
9:43:51	1.135	574.5	0.084	9:44:22	1.137	605.5	0.082	9:44:53	1.137	636.5	0.082
9:43:51	1.135	575.0	0.084	9:44:22	1.139	606.0	0.08	9:44:53	1.139	637.0	0.08
9:43:52	1.137	575.5	0.082	9:44:23	1.136	606.5	0.083	9:44:54	1.139	637.5	0.08
9:43:52	1.137	576.0	0.082	9:44:23	1.136	607.0	0.083	9:44:54	1.140	638.0	0.079
9:43:53	1.137	576.5	0.082	9:44:24	1.136	607.5	0.083	9:44:55	1.137	638.5	0.082

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:44:55	1.139	639.0	0.08	9:45:26	1.143	670.0	0.076	9:45:58	1.148	701.0	0.071
9:44:56	1.137	639.5	0.082	9:45:27	1.143	670.5	0.076	9:45:59	1.148	701.5	0.071
9:44:56	1.139	640.0	0.08	9:45:27	1.140	671.0	0.079	9:45:59	1.147	702.0	0.072
9:44:57	1.140	640.5	0.079	9:45:28	1.145	671.5	0.074	9:46:00	1.148	702.5	0.071
9:44:57	1.139	641.0	0.08	9:45:28	1.143	672.0	0.076	9:46:00	1.148	703.0	0.071
9:44:58	1.140	641.5	0.079	9:45:29	1.144	672.5	0.075	9:46:01	1.145	703.5	0.074
9:44:58	1.139	642.0	0.08	9:45:29	1.144	673.0	0.075	9:46:01	1.151	704.0	0.068
9:44:59	1.141	642.5	0.078	9:45:30	1.144	673.5	0.075	9:46:02	1.147	704.5	0.072
9:44:59	1.141	643.0	0.078	9:45:30	1.143	674.0	0.076	9:46:02	1.147	705.0	0.072
9:45:00	1.139	643.5	0.08	9:45:31	1.143	674.5	0.076	9:46:03	1.147	705.5	0.072
9:45:00	1.141	644.0	0.078	9:45:31	1.145	675.0	0.074	9:46:03	1.147	706.0	0.072
9:45:01	1.139	644.5	0.08	9:45:32	1.145	675.5	0.074	9:46:04	1.145	706.5	0.074
9:45:01	1.141	645.0	0.078	9:45:32	1.143	676.0	0.076	9:46:04	1.147	707.0	0.072
9:45:02	1.141	645.5	0.078	9:45:33	1.144	676.5	0.075	9:46:05	1.148	707.5	0.071
9:45:02	1.141	646.0	0.078	9:45:33	1.144	677.0	0.075				
9:45:03	1.140	646.5	0.079	9:45:34	1.145	677.5	0.074				
9:45:03	1.139	647.0	0.08	9:45:34	1.144	678.0	0.075				
9:45:04	1.140	647.5	0.079	9:45:35	1.144	678.5	0.075				
9:45:04	1.139	648.0	0.08	9:45:35	1.145	679.0	0.074				
9:45:05	1.140	648.5	0.079	9:45:36	1.143	679.5	0.076				
9:45:05	1.139	649.0	0.08	9:45:36	1.145	680.0	0.074				
9:45:06	1.139	649.5	0.08	9:45:37	1.145	680.5	0.074				
9:45:06	1.139	650.0	0.08	9:45:37	1.145	681.0	0.074				
9:45:07	1.137	650.5	0.082	9:45:38	1.145	681.5	0.074				
9:45:07	1.136	651.0	0.083	9:45:38	1.144	682.0	0.075				
9:45:08	1.139	651.5	0.08	9:45:39	1.143	682.5	0.076				
9:45:08	1.140	652.0	0.079	9:45:39	1.144	683.0	0.075				
9:45:09	1.140	652.5	0.079	9:45:40	1.145	683.5	0.074				
9:45:09	1.141	653.0	0.078	9:45:40	1.145	684.0	0.074				
9:45:10	1.140	653.5	0.079	9:45:41	1.144	684.5	0.075				
9:45:10	1.141	654.0	0.078	9:45:41	1.145	685.0	0.074				
9:45:11	1.141	654.5	0.078	9:45:42	1.143	685.5	0.076				
9:45:11	1.140	655.0	0.079	9:45:42	1.144	686.0	0.075				
9:45:12	1.139	655.5	0.08	9:45:43	1.145	686.5	0.074				
9:45:12	1.140	656.0	0.079	9:45:43	1.147	687.0	0.072				
9:45:13	1.141	656.5	0.078	9:45:44	1.145	687.5	0.074				
9:45:13	1.140	657.0	0.079	9:45:44	1.145	688.0	0.074				
9:45:14	1.141	657.5	0.078	9:45:45	1.143	688.5	0.076				
9:45:14	1.139	658.0	0.08	9:45:45	1.145	689.0	0.074				
9:45:15	1.141	658.5	0.078	9:45:46	1.147	689.5	0.072				
9:45:15	1.140	659.0	0.079	9:45:46	1.144	690.0	0.075				
9:45:16	1.140	659.5	0.079	9:45:47	1.147	690.5	0.072				
9:45:16	1.140	660.0	0.079	9:45:47	1.145	691.0	0.074				
9:45:17	1.141	660.5	0.078	9:45:48	1.147	691.5	0.072				
9:45:17	1.144	661.0	0.075	9:45:48	1.147	692.0	0.072				
9:45:18	1.143	661.5	0.076	9:45:49	1.144	692.5	0.075				
9:45:18	1.137	662.0	0.082	9:45:49	1.143	693.0	0.076				
9:45:19	1.141	662.5	0.078	9:45:50	1.144	693.5	0.075				
9:45:19	1.144	663.0	0.075	9:45:50	1.147	694.0	0.072				
9:45:20	1.140	663.5	0.079	9:45:51	1.147	694.5	0.072				
9:45:20	1.141	664.0	0.078	9:45:51	1.148	695.0	0.071				
9:45:21	1.141	664.5	0.078	9:45:52	1.145	695.5	0.074				
9:45:21	1.140	665.0	0.079	9:45:52	1.145	696.0	0.074				
9:45:22	1.140	665.5	0.079	9:45:54	1.141	696.5	0.078				
9:45:22	1.141	666.0	0.078	9:45:54	1.145	697.0	0.074				
9:45:23	1.140	666.5	0.079	9:45:55	1.147	697.5	0.072				
9:45:23	1.143	667.0	0.076	9:45:55	1.144	698.0	0.075				
9:45:24	1.140	667.5	0.079	9:45:56	1.144	698.5	0.075				
9:45:24	1.144	668.0	0.075	9:45:56	1.143	699.0	0.076				
9:45:25	1.144	668.5	0.075	9:45:57	1.145	699.5	0.074				
9:45:25	1.144	669.0	0.075	9:45:57	1.147	700.0	0.072				
9:45:26	1.143	669.5	0.076	9:45:58	1.145	700.5	0.074				



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Slug Test Analysis Report

Number: W23101317

Project: 2010 Monitoring Program Champagne

Client: Yukon Government

Location Champagne

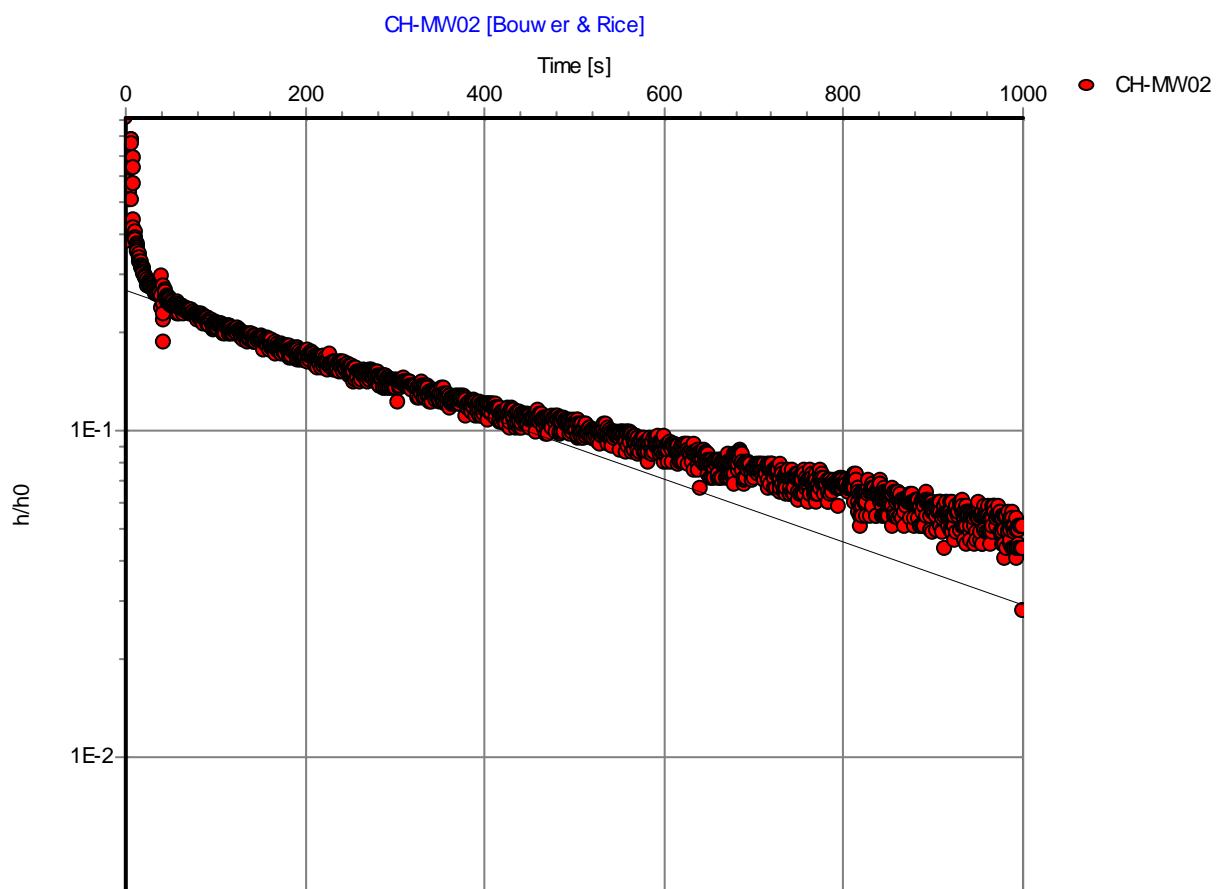
Test performed by: ER

Evaluated by: BCW

Test date: 12/15/2010

Reviewed by: SK

Analysis Method: Bouwer & Rice



Conductivity: 5.82E-7 [m/s]

Comments:



EBA Engineering Consultants
Calcite Buisness Centre
Unit 6, 151 Industrial Road
Whitehorse, Yukon Y1A 2V3

Slug Test Analysis Report

Number: W23101317

Project: 2010 Monitoring Program Champagne

Client: Yukon Government

Location Champagne

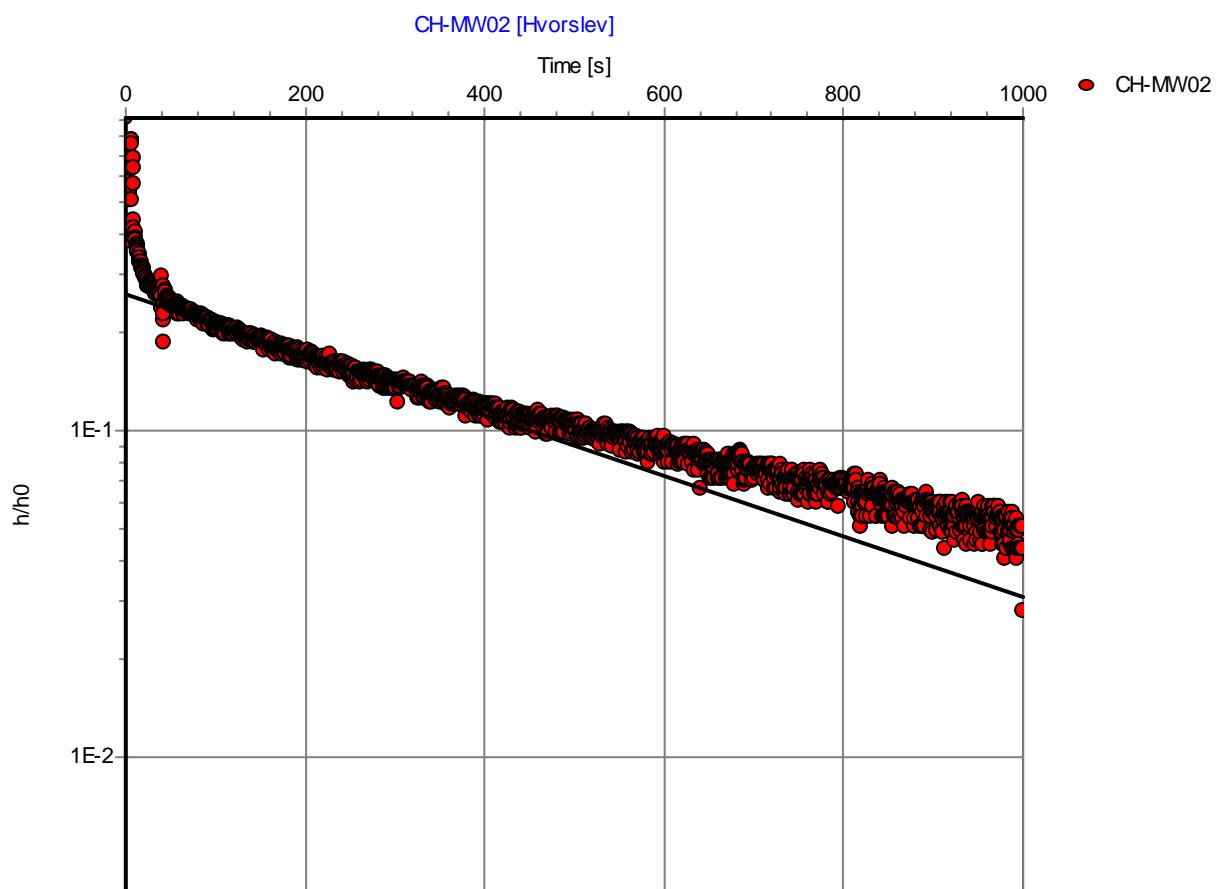
Test performed by: ER

Evaluated by: BCW

Test date: 12/15/2010

Reviewed by: SK

Analysis Method: Hvorslev



Conductivity: 7.34E-7 [m/s]

Comments:

2010 Monitoring Well Program

Serial Number 72942
 Project ID W23101317
Location **Champagne CH-MW02**
 Channel 1 Identification
 Static (m btoc) 2.96

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
12:59:26	2.177	0.0	0.786	12:59:53	2.743	27.0	0.22	13:00:20	2.768	54.0	0.195
12:59:26	2.248	0.5	0.715	12:59:53	2.744	27.5	0.219	13:00:20	2.769	54.5	0.194
12:59:27	2.665	1.0	0.298	12:59:54	2.744	28.0	0.219	13:00:21	2.771	55.0	0.192
12:59:27	2.505	1.5	0.458	12:59:54	2.741	28.5	0.222	13:00:21	2.772	55.5	0.191
12:59:28	2.427	2.0	0.536	12:59:55	2.749	29.0	0.214	13:00:22	2.771	56.0	0.192
12:59:28	2.508	2.5	0.455	12:59:55	2.745	29.5	0.218	13:00:22	2.772	56.5	0.191
12:59:29	2.545	3.0	0.418	12:59:56	2.749	30.0	0.214	13:00:23	2.783	57.0	0.18
12:59:29	2.537	3.5	0.426	12:59:56	2.747	30.5	0.216	13:00:23	2.777	57.5	0.186
12:59:30	2.533	4.0	0.43	12:59:57	2.747	31.0	0.216	13:00:24	2.769	58.0	0.194
12:59:30	2.548	4.5	0.415	12:59:57	2.749	31.5	0.214	13:00:24	2.772	58.5	0.191
12:59:31	2.56	5.0	0.403	12:59:58	2.747	32.0	0.216	13:00:25	2.773	59.0	0.19
12:59:31	2.564	5.5	0.399	12:59:58	2.749	32.5	0.214	13:00:25	2.773	59.5	0.19
12:59:32	2.561	6.0	0.402	12:59:59	2.756	33.0	0.207	13:00:26	2.783	60.0	0.18
12:59:32	2.349	6.5	0.614	12:59:59	2.753	33.5	0.21	13:00:26	2.773	60.5	0.19
12:59:33	2.349	7.0	0.614	13:00:00	2.751	34.0	0.212	13:00:27	2.777	61.0	0.186
12:59:33	2.368	7.5	0.595	13:00:00	2.752	34.5	0.211	13:00:27	2.775	61.5	0.188
12:59:34	2.424	8.0	0.539	13:00:01	2.752	35.0	0.211	13:00:28	2.773	62.0	0.19
12:59:34	2.464	8.5	0.499	13:00:01	2.753	35.5	0.21	13:00:28	2.775	62.5	0.188
12:59:35	2.515	9.0	0.448	13:00:02	2.756	36.0	0.207	13:00:29	2.776	63.0	0.187
12:59:35	2.613	9.5	0.35	13:00:02	2.756	36.5	0.207	13:00:29	2.776	63.5	0.187
12:59:36	2.636	10.0	0.327	13:00:03	2.756	37.0	0.207	13:00:30	2.776	64.0	0.187
12:59:36	2.645	10.5	0.318	13:00:03	2.755	37.5	0.208	13:00:30	2.781	64.5	0.182
12:59:37	2.657	11.0	0.306	13:00:04	2.757	38.0	0.206	13:00:31	2.785	65.0	0.178
12:59:37	2.655	11.5	0.308	13:00:04	2.761	38.5	0.202	13:00:31	2.779	65.5	0.184
12:59:38	2.663	12.0	0.3	13:00:05	2.756	39.0	0.207	13:00:32	2.779	66.0	0.184
12:59:38	2.668	12.5	0.295	13:00:05	2.759	39.5	0.204	13:00:32	2.777	66.5	0.186
12:59:39	2.675	13.0	0.288	13:00:06	2.759	40.0	0.204	13:00:33	2.779	67.0	0.184
12:59:39	2.677	13.5	0.286	13:00:06	2.776	40.5	0.187	13:00:33	2.777	67.5	0.186
12:59:40	2.683	14.0	0.28	13:00:07	2.729	41.0	0.234	13:00:34	2.779	68.0	0.184
12:59:40	2.687	14.5	0.276	13:00:07	2.816	41.5	0.147	13:00:34	2.779	68.5	0.184
12:59:41	2.691	15.0	0.272	13:00:08	2.792	42.0	0.171	13:00:35	2.781	69.0	0.182
12:59:41	2.697	15.5	0.266	13:00:08	2.745	42.5	0.218	13:00:35	2.781	69.5	0.182
12:59:42	2.699	16.0	0.264	13:00:09	2.771	43.0	0.192	13:00:36	2.78	70.0	0.183
12:59:42	2.703	16.5	0.26	13:00:09	2.783	43.5	0.18	13:00:36	2.779	70.5	0.184
12:59:43	2.705	17.0	0.258	13:00:10	2.752	44.0	0.211	13:00:37	2.783	71.0	0.18
12:59:43	2.711	17.5	0.252	13:00:10	2.764	44.5	0.199	13:00:37	2.78	71.5	0.183
12:59:44	2.712	18.0	0.251	13:00:11	2.764	45.0	0.199	13:00:38	2.781	72.0	0.182
12:59:44	2.715	18.5	0.248	13:00:11	2.755	45.5	0.208	13:00:38	2.78	72.5	0.183
12:59:45	2.716	19.0	0.247	13:00:12	2.768	46.0	0.195	13:00:39	2.783	73.0	0.18
12:59:45	2.719	19.5	0.244	13:00:12	2.764	46.5	0.199	13:00:39	2.78	73.5	0.183
12:59:46	2.72	20.0	0.243	13:00:13	2.76	47.0	0.203	13:00:40	2.783	74.0	0.18
12:59:46	2.723	20.5	0.24	13:00:13	2.763	47.5	0.2	13:00:40	2.783	74.5	0.18
12:59:47	2.725	21.0	0.238	13:00:14	2.764	48.0	0.199	13:00:41	2.785	75.0	0.178
12:59:47	2.728	21.5	0.235	13:00:14	2.763	48.5	0.2	13:00:41	2.783	75.5	0.18
12:59:48	2.728	22.0	0.235	13:00:15	2.765	49.0	0.198	13:00:42	2.781	76.0	0.182
12:59:48	2.731	22.5	0.232	13:00:15	2.765	49.5	0.198	13:00:42	2.784	76.5	0.179
12:59:49	2.732	23.0	0.231	13:00:16	2.772	50.0	0.191	13:00:43	2.781	77.0	0.182
12:59:49	2.736	23.5	0.227	13:00:16	2.768	50.5	0.195	13:00:43	2.783	77.5	0.18
12:59:50	2.741	24.0	0.222	13:00:17	2.768	51.0	0.195	13:00:44	2.785	78.0	0.178
12:59:50	2.735	24.5	0.228	13:00:17	2.768	51.5	0.195	13:00:44	2.784	78.5	0.179
12:59:51	2.737	25.0	0.226	13:00:18	2.773	52.0	0.19	13:00:45	2.783	79.0	0.18
12:59:51	2.744	25.5	0.219	13:00:18	2.775	52.5	0.188	13:00:45	2.789	79.5	0.174
12:59:52	2.739	26.0	0.224	13:00:19	2.768	53.0	0.195	13:00:46	2.785	80.0	0.178
12:59:52	2.739	26.5	0.224	13:00:19	2.772	53.5	0.191	13:00:46	2.785	80.5	0.178

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
13:00:47	2.792	81.0	0.171	13:01:18	2.808	112.5	0.155	13:01:50	2.811	144.0	0.152
13:00:47	2.785	81.5	0.178	13:01:19	2.799	113.0	0.164	13:01:50	2.817	144.5	0.146
13:00:48	2.787	82.0	0.176	13:01:19	2.801	113.5	0.162	13:01:51	2.811	145.0	0.152
13:00:48	2.789	82.5	0.174	13:01:20	2.799	114.0	0.164	13:01:51	2.817	145.5	0.146
13:00:49	2.788	83.0	0.175	13:01:20	2.801	114.5	0.162	13:01:52	2.809	146.0	0.154
13:00:49	2.784	83.5	0.179	13:01:21	2.799	115.0	0.164	13:01:52	2.812	146.5	0.151
13:00:50	2.785	84.0	0.178	13:01:21	2.799	115.5	0.164	13:01:53	2.815	147.0	0.148
13:00:50	2.787	84.5	0.176	13:01:22	2.808	116.0	0.155	13:01:53	2.815	147.5	0.148
13:00:51	2.788	85.0	0.175	13:01:22	2.8	116.5	0.163	13:01:54	2.812	148.0	0.151
13:00:51	2.789	85.5	0.174	13:01:23	2.808	117.0	0.155	13:01:54	2.813	148.5	0.15
13:00:52	2.787	86.0	0.176	13:01:23	2.805	117.5	0.158	13:01:55	2.812	149.0	0.151
13:00:52	2.787	86.5	0.176	13:01:24	2.808	118.0	0.155	13:01:55	2.813	149.5	0.15
13:00:53	2.788	87.0	0.175	13:01:24	2.8	118.5	0.163	13:01:56	2.813	150.0	0.15
13:00:53	2.796	87.5	0.167	13:01:25	2.801	119.0	0.162	13:01:56	2.813	150.5	0.15
13:00:54	2.789	88.0	0.174	13:01:25	2.805	119.5	0.158	13:01:57	2.813	151.0	0.15
13:00:54	2.789	88.5	0.174	13:01:26	2.805	120.0	0.158	13:01:57	2.811	151.5	0.152
13:00:55	2.789	89.0	0.174	13:01:26	2.808	120.5	0.155	13:01:58	2.815	152.0	0.148
13:00:55	2.789	89.5	0.174	13:01:27	2.804	121.0	0.159	13:01:58	2.812	152.5	0.151
13:00:56	2.791	90.0	0.172	13:01:27	2.803	121.5	0.16	13:01:59	2.815	153.0	0.148
13:00:56	2.791	90.5	0.172	13:01:28	2.803	122.0	0.16	13:01:59	2.815	153.5	0.148
13:00:57	2.789	91.0	0.174	13:01:28	2.805	122.5	0.158	13:02:00	2.824	154.0	0.139
13:00:57	2.789	91.5	0.174	13:01:29	2.804	123.0	0.159	13:02:00	2.816	154.5	0.147
13:00:58	2.789	92.0	0.174	13:01:29	2.803	123.5	0.16	13:02:01	2.813	155.0	0.15
13:00:58	2.796	92.5	0.167	13:01:30	2.805	124.0	0.158	13:02:01	2.815	155.5	0.148
13:00:59	2.791	93.0	0.172	13:01:30	2.803	124.5	0.16	13:02:02	2.815	156.0	0.148
13:00:59	2.796	93.5	0.167	13:01:31	2.8	125.0	0.163	13:02:02	2.816	156.5	0.147
13:01:00	2.792	94.0	0.171	13:01:31	2.805	125.5	0.158	13:02:03	2.816	157.0	0.147
13:01:00	2.799	94.5	0.164	13:01:32	2.808	126.0	0.155	13:02:03	2.812	157.5	0.151
13:01:01	2.795	95.0	0.168	13:01:32	2.804	126.5	0.159	13:02:04	2.815	158.0	0.148
13:01:01	2.795	95.5	0.168	13:01:33	2.804	127.0	0.159	13:02:04	2.817	158.5	0.146
13:01:02	2.793	96.0	0.17	13:01:33	2.805	127.5	0.158	13:02:05	2.815	159.0	0.148
13:01:02	2.792	96.5	0.171	13:01:34	2.805	128.0	0.158	13:02:05	2.821	159.5	0.142
13:01:03	2.793	97.0	0.17	13:01:34	2.805	128.5	0.158	13:02:06	2.824	160.0	0.139
13:01:03	2.796	97.5	0.167	13:01:35	2.807	129.0	0.156	13:02:06	2.819	160.5	0.144
13:01:04	2.803	98.0	0.16	13:01:35	2.805	129.5	0.158	13:02:07	2.816	161.0	0.147
13:01:04	2.797	98.5	0.166	13:01:36	2.807	130.0	0.156	13:02:07	2.815	161.5	0.148
13:01:05	2.8	99.0	0.163	13:01:36	2.812	130.5	0.151	13:02:08	2.816	162.0	0.147
13:01:05	2.795	99.5	0.168	13:01:37	2.808	131.0	0.155	13:02:08	2.815	162.5	0.148
13:01:06	2.796	100.0	0.167	13:01:37	2.815	131.5	0.148	13:02:09	2.821	163.0	0.142
13:01:06	2.797	100.5	0.166	13:01:38	2.807	132.0	0.156	13:02:09	2.823	163.5	0.14
13:01:07	2.801	101.0	0.162	13:01:38	2.808	132.5	0.155	13:02:10	2.821	164.0	0.142
13:01:07	2.796	101.5	0.167	13:01:39	2.809	133.0	0.154	13:02:10	2.821	164.5	0.142
13:01:08	2.8	102.0	0.163	13:01:39	2.812	133.5	0.151	13:02:11	2.823	165.0	0.14
13:01:08	2.796	102.5	0.167	13:01:40	2.807	134.0	0.156	13:02:11	2.825	165.5	0.138
13:01:09	2.796	103.0	0.167	13:01:40	2.808	134.5	0.155	13:02:12	2.823	166.0	0.14
13:01:09	2.796	103.5	0.167	13:01:41	2.809	135.0	0.154	13:02:12	2.828	166.5	0.135
13:01:10	2.796	104.0	0.167	13:01:41	2.808	135.5	0.155	13:02:13	2.821	167.0	0.142
13:01:10	2.796	104.5	0.167	13:01:42	2.817	136.0	0.146	13:02:13	2.821	167.5	0.142
13:01:11	2.796	105.0	0.167	13:01:42	2.811	136.5	0.152	13:02:14	2.823	168.0	0.14
13:01:11	2.796	105.5	0.167	13:01:43	2.809	137.0	0.154	13:02:14	2.817	168.5	0.146
13:01:12	2.799	106.0	0.164	13:01:43	2.811	137.5	0.152	13:02:15	2.819	169.0	0.144
13:01:12	2.797	106.5	0.166	13:01:44	2.815	138.0	0.148	13:02:15	2.824	169.5	0.139
13:01:13	2.799	107.0	0.164	13:01:44	2.808	138.5	0.155	13:02:16	2.823	170.0	0.14
13:01:13	2.797	107.5	0.166	13:01:45	2.812	139.0	0.151	13:02:16	2.825	170.5	0.138
13:01:14	2.799	108.0	0.164	13:01:45	2.808	139.5	0.155	13:02:17	2.82	171.0	0.143
13:01:14	2.799	108.5	0.164	13:01:46	2.809	140.0	0.154	13:02:17	2.82	171.5	0.143
13:01:15	2.801	109.0	0.162	13:01:46	2.808	140.5	0.155	13:02:18	2.827	172.0	0.136
13:01:15	2.803	109.5	0.16	13:01:47	2.809	141.0	0.154	13:02:18	2.825	172.5	0.138
13:01:16	2.807	110.0	0.156	13:01:47	2.808	141.5	0.155	13:02:19	2.819	173.0	0.144
13:01:16	2.801	110.5	0.162	13:01:48	2.809	142.0	0.154	13:02:19	2.825	173.5	0.138
13:01:17	2.801	111.0	0.162	13:01:48	2.812	142.5	0.151	13:02:20	2.821	174.0	0.142
13:01:17	2.803	111.5	0.16	13:01:49	2.817	143.0	0.146	13:02:20	2.825	174.5	0.138
13:01:18	2.8	112.0	0.163	13:01:49	2.817	143.5	0.146	13:02:21	2.828	175.0	0.135

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
13:02:21	2.821	175.5	0.142	13:02:53	2.829	207.0	0.134	13:03:24	2.837	238.5	0.126
13:02:22	2.825	176.0	0.138	13:02:53	2.829	207.5	0.134	13:03:25	2.836	239.0	0.127
13:02:22	2.827	176.5	0.136	13:02:54	2.827	208.0	0.136	13:03:25	2.844	239.5	0.119
13:02:23	2.823	177.0	0.14	13:02:54	2.829	208.5	0.134	13:03:26	2.839	240.0	0.124
13:02:23	2.82	177.5	0.143	13:02:55	2.831	209.0	0.132	13:03:26	2.835	240.5	0.128
13:02:24	2.823	178.0	0.14	13:02:55	2.831	209.5	0.132	13:03:27	2.837	241.0	0.126
13:02:24	2.828	178.5	0.135	13:02:56	2.831	210.0	0.132	13:03:27	2.836	241.5	0.127
13:02:25	2.82	179.0	0.143	13:02:56	2.829	210.5	0.134	13:03:28	2.841	242.0	0.122
13:02:25	2.821	179.5	0.142	13:02:57	2.831	211.0	0.132	13:03:28	2.836	242.5	0.127
13:02:26	2.824	180.0	0.139	13:02:57	2.84	211.5	0.123	13:03:29	2.843	243.0	0.12
13:02:26	2.823	180.5	0.14	13:02:58	2.832	212.0	0.131	13:03:29	2.839	243.5	0.124
13:02:27	2.821	181.0	0.142	13:02:58	2.832	212.5	0.131	13:03:30	2.844	244.0	0.119
13:02:27	2.821	181.5	0.142	13:02:59	2.831	213.0	0.132	13:03:30	2.839	244.5	0.124
13:02:28	2.82	182.0	0.143	13:02:59	2.841	213.5	0.122	13:03:31	2.839	245.0	0.124
13:02:28	2.829	182.5	0.134	13:03:00	2.832	214.0	0.131	13:03:31	2.841	245.5	0.122
13:02:29	2.824	183.0	0.139	13:03:00	2.831	214.5	0.132	13:03:32	2.843	246.0	0.12
13:02:29	2.832	183.5	0.131	13:03:01	2.832	215.0	0.131	13:03:32	2.841	246.5	0.122
13:02:30	2.825	184.0	0.138	13:03:01	2.832	215.5	0.131	13:03:33	2.837	247.0	0.126
13:02:30	2.832	184.5	0.131	13:03:02	2.832	216.0	0.131	13:03:33	2.84	247.5	0.123
13:02:31	2.825	185.0	0.138	13:03:02	2.837	216.5	0.126	13:03:34	2.839	248.0	0.124
13:02:31	2.831	185.5	0.132	13:03:03	2.832	217.0	0.131	13:03:34	2.837	248.5	0.126
13:02:32	2.824	186.0	0.139	13:03:03	2.832	217.5	0.131	13:03:35	2.839	249.0	0.124
13:02:32	2.824	186.5	0.139	13:03:04	2.841	218.0	0.122	13:03:35	2.84	249.5	0.123
13:02:33	2.827	187.0	0.136	13:03:04	2.833	218.5	0.13	13:03:36	2.845	250.0	0.118
13:02:33	2.823	187.5	0.14	13:03:05	2.832	219.0	0.131	13:03:36	2.848	250.5	0.115
13:02:34	2.824	188.0	0.139	13:03:05	2.832	219.5	0.131	13:03:37	2.84	251.0	0.123
13:02:34	2.827	188.5	0.136	13:03:06	2.84	220.0	0.123	13:03:37	2.839	251.5	0.124
13:02:35	2.827	189.0	0.136	13:03:06	2.835	220.5	0.128	13:03:38	2.839	252.0	0.124
13:02:35	2.824	189.5	0.139	13:03:07	2.832	221.0	0.131	13:03:38	2.847	252.5	0.116
13:02:36	2.825	190.0	0.138	13:03:07	2.832	221.5	0.131	13:03:39	2.848	253.0	0.115
13:02:36	2.825	190.5	0.138	13:03:08	2.831	222.0	0.132	13:03:39	2.841	253.5	0.122
13:02:37	2.823	191.0	0.14	13:03:08	2.833	222.5	0.13	13:03:40	2.848	254.0	0.115
13:02:37	2.823	191.5	0.14	13:03:09	2.833	223.0	0.13	13:03:40	2.844	254.5	0.119
13:02:38	2.832	192.0	0.131	13:03:09	2.832	223.5	0.131	13:03:41	2.852	255.0	0.111
13:02:38	2.833	192.5	0.13	13:03:10	2.835	224.0	0.128	13:03:41	2.844	255.5	0.119
13:02:39	2.825	193.0	0.138	13:03:10	2.84	224.5	0.123	13:03:42	2.851	256.0	0.112
13:02:39	2.828	193.5	0.135	13:03:11	2.833	225.0	0.13	13:03:42	2.851	256.5	0.112
13:02:40	2.829	194.0	0.134	13:03:11	2.843	225.5	0.12	13:03:43	2.841	257.0	0.122
13:02:40	2.827	194.5	0.136	13:03:12	2.837	226.0	0.126	13:03:43	2.841	257.5	0.122
13:02:41	2.833	195.0	0.13	13:03:12	2.835	226.5	0.128	13:03:44	2.845	258.0	0.118
13:02:41	2.832	195.5	0.131	13:03:13	2.829	227.0	0.134	13:03:44	2.845	258.5	0.118
13:02:42	2.833	196.0	0.13	13:03:13	2.84	227.5	0.123	13:03:45	2.844	259.0	0.119
13:02:42	2.828	196.5	0.135	13:03:14	2.837	228.0	0.126	13:03:45	2.844	259.5	0.119
13:02:43	2.832	197.0	0.131	13:03:14	2.839	228.5	0.124	13:03:46	2.849	260.0	0.114
13:02:43	2.828	197.5	0.135	13:03:15	2.837	229.0	0.126	13:03:46	2.844	260.5	0.119
13:02:44	2.833	198.0	0.13	13:03:15	2.837	229.5	0.126	13:03:47	2.844	261.0	0.119
13:02:44	2.833	198.5	0.13	13:03:16	2.839	230.0	0.124	13:03:47	2.844	261.5	0.119
13:02:45	2.829	199.0	0.134	13:03:16	2.839	230.5	0.124	13:03:48	2.852	262.0	0.111
13:02:45	2.833	199.5	0.13	13:03:17	2.839	231.0	0.124	13:03:48	2.848	262.5	0.115
13:02:46	2.827	200.0	0.136	13:03:17	2.843	231.5	0.12	13:03:49	2.847	263.0	0.116
13:02:46	2.833	200.5	0.13	13:03:18	2.835	232.0	0.128	13:03:49	2.844	263.5	0.119
13:02:47	2.828	201.0	0.135	13:03:18	2.84	232.5	0.123	13:03:50	2.851	264.0	0.112
13:02:47	2.827	201.5	0.136	13:03:19	2.836	233.0	0.127	13:03:50	2.845	264.5	0.118
13:02:48	2.832	202.0	0.131	13:03:19	2.835	233.5	0.128	13:03:51	2.844	265.0	0.119
13:02:48	2.829	202.5	0.134	13:03:20	2.837	234.0	0.126	13:03:51	2.843	265.5	0.12
13:02:49	2.833	203.0	0.13	13:03:20	2.836	234.5	0.127	13:03:52	2.847	266.0	0.116
13:02:49	2.825	203.5	0.138	13:03:21	2.843	235.0	0.12	13:03:52	2.844	266.5	0.119
13:02:50	2.836	204.0	0.127	13:03:21	2.839	235.5	0.124	13:03:53	2.847	267.0	0.116
13:02:50	2.829	204.5	0.134	13:03:22	2.841	236.0	0.122	13:03:53	2.845	267.5	0.118
13:02:51	2.829	205.0	0.134	13:03:22	2.84	236.5	0.123	13:03:54	2.845	268.0	0.118
13:02:51	2.833	205.5	0.13	13:03:23	2.837	237.0	0.126	13:03:54	2.849	268.5	0.114
13:02:52	2.831	206.0	0.132	13:03:23	2.843	237.5	0.12	13:03:55	2.851	269.0	0.112
13:02:52	2.831	206.5	0.132	13:03:24	2.836	238.0	0.127	13:03:55	2.852	269.5	0.111

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
13:03:56	2.845	270.0	0.118	13:04:27	2.851	301.5	0.112	13:04:59	2.857	333.0	0.106
13:03:56	2.847	270.5	0.116	13:04:28	2.857	302.0	0.106	13:04:59	2.859	333.5	0.104
13:03:57	2.845	271.0	0.118	13:04:28	2.851	302.5	0.112	13:05:00	2.859	334.0	0.104
13:03:57	2.845	271.5	0.118	13:04:29	2.853	303.0	0.11	13:05:00	2.864	334.5	0.099
13:03:58	2.843	272.0	0.12	13:04:29	2.852	303.5	0.111	13:05:01	2.859	335.0	0.104
13:03:58	2.851	272.5	0.112	13:04:30	2.867	304.0	0.096	13:05:01	2.856	335.5	0.107
13:03:59	2.847	273.0	0.116	13:04:30	2.853	304.5	0.11	13:05:02	2.861	336.0	0.102
13:03:59	2.843	273.5	0.12	13:04:31	2.857	305.0	0.106	13:05:02	2.857	336.5	0.106
13:04:00	2.845	274.0	0.118	13:04:31	2.855	305.5	0.108	13:05:03	2.856	337.0	0.107
13:04:00	2.845	274.5	0.118	13:04:32	2.853	306.0	0.11	13:05:03	2.863	337.5	0.1
13:04:01	2.845	275.0	0.118	13:04:32	2.853	306.5	0.11	13:05:04	2.857	338.0	0.106
13:04:01	2.847	275.5	0.116	13:04:33	2.852	307.0	0.111	13:05:04	2.867	338.5	0.096
13:04:02	2.844	276.0	0.119	13:04:33	2.853	307.5	0.11	13:05:05	2.86	339.0	0.103
13:04:02	2.849	276.5	0.114	13:04:34	2.853	308.0	0.11	13:05:05	2.86	339.5	0.103
13:04:03	2.847	277.0	0.116	13:04:34	2.851	308.5	0.112	13:05:06	2.863	340.0	0.1
13:04:03	2.849	277.5	0.114	13:04:35	2.852	309.0	0.111	13:05:06	2.86	340.5	0.103
13:04:04	2.853	278.0	0.11	13:04:35	2.849	309.5	0.114	13:05:07	2.867	341.0	0.096
13:04:04	2.847	278.5	0.116	13:04:36	2.853	310.0	0.11	13:05:07	2.861	341.5	0.102
13:04:05	2.845	279.0	0.118	13:04:36	2.853	310.5	0.11	13:05:08	2.86	342.0	0.103
13:04:05	2.847	279.5	0.116	13:04:37	2.853	311.0	0.11	13:05:08	2.86	342.5	0.103
13:04:06	2.847	280.0	0.116	13:04:37	2.855	311.5	0.108	13:05:09	2.859	343.0	0.104
13:04:06	2.845	280.5	0.118	13:04:38	2.856	312.0	0.107	13:05:09	2.86	343.5	0.103
13:04:07	2.845	281.0	0.118	13:04:38	2.855	312.5	0.108	13:05:10	2.86	344.0	0.103
13:04:07	2.853	281.5	0.11	13:04:39	2.852	313.0	0.111	13:05:10	2.861	344.5	0.102
13:04:08	2.847	282.0	0.116	13:04:39	2.853	313.5	0.11	13:05:11	2.86	345.0	0.103
13:04:08	2.848	282.5	0.115	13:04:40	2.855	314.0	0.108	13:05:11	2.863	345.5	0.1
13:04:09	2.852	283.0	0.111	13:04:40	2.855	314.5	0.108	13:05:12	2.86	346.0	0.103
13:04:09	2.848	283.5	0.115	13:04:41	2.853	315.0	0.11	13:05:12	2.861	346.5	0.102
13:04:10	2.856	284.0	0.107	13:04:41	2.856	315.5	0.107	13:05:13	2.865	347.0	0.098
13:04:10	2.856	284.5	0.107	13:04:42	2.855	316.0	0.108	13:05:13	2.864	347.5	0.099
13:04:11	2.851	285.0	0.112	13:04:42	2.853	316.5	0.11	13:05:14	2.861	348.0	0.102
13:04:11	2.848	285.5	0.115	13:04:43	2.852	317.0	0.111	13:05:14	2.861	348.5	0.102
13:04:12	2.851	286.0	0.112	13:04:43	2.853	317.5	0.11	13:05:15	2.86	349.0	0.103
13:04:12	2.849	286.5	0.114	13:04:44	2.855	318.0	0.108	13:05:15	2.867	349.5	0.096
13:04:13	2.847	287.0	0.116	13:04:44	2.856	318.5	0.107	13:05:16	2.861	350.0	0.102
13:04:13	2.847	287.5	0.116	13:04:45	2.855	319.0	0.108	13:05:16	2.861	350.5	0.102
13:04:14	2.857	288.0	0.106	13:04:45	2.855	319.5	0.108	13:05:17	2.861	351.0	0.102
13:04:14	2.857	288.5	0.106	13:04:46	2.859	320.0	0.104	13:05:17	2.865	351.5	0.098
13:04:15	2.848	289.0	0.115	13:04:46	2.855	320.5	0.108	13:05:18	2.864	352.0	0.099
13:04:15	2.848	289.5	0.115	13:04:47	2.855	321.0	0.108	13:05:18	2.859	352.5	0.104
13:04:16	2.847	290.0	0.116	13:04:47	2.855	321.5	0.108	13:05:19	2.857	353.0	0.106
13:04:16	2.848	290.5	0.115	13:04:48	2.856	322.0	0.107	13:05:19	2.861	353.5	0.102
13:04:17	2.857	291.0	0.106	13:04:48	2.856	322.5	0.107	13:05:20	2.865	354.0	0.098
13:04:17	2.849	291.5	0.114	13:04:49	2.856	323.0	0.107	13:05:20	2.867	354.5	0.096
13:04:18	2.853	292.0	0.11	13:04:49	2.855	323.5	0.108	13:05:21	2.857	355.0	0.106
13:04:18	2.849	292.5	0.114	13:04:50	2.856	324.0	0.107	13:05:21	2.867	355.5	0.096
13:04:19	2.851	293.0	0.112	13:04:50	2.855	324.5	0.108	13:05:22	2.861	356.0	0.102
13:04:19	2.857	293.5	0.106	13:04:51	2.864	325.0	0.099	13:05:22	2.861	356.5	0.102
13:04:20	2.853	294.0	0.11	13:04:51	2.857	325.5	0.106	13:05:23	2.864	357.0	0.099
13:04:20	2.851	294.5	0.112	13:04:52	2.863	326.0	0.1	13:05:23	2.863	357.5	0.1
13:04:21	2.857	295.0	0.106	13:04:52	2.857	326.5	0.106	13:05:24	2.869	358.0	0.094
13:04:21	2.857	295.5	0.106	13:04:53	2.857	327.0	0.106	13:05:24	2.868	358.5	0.095
13:04:22	2.851	296.0	0.112	13:04:53	2.864	327.5	0.099	13:05:25	2.863	359.0	0.1
13:04:22	2.851	296.5	0.112	13:04:54	2.859	328.0	0.104	13:05:25	2.861	359.5	0.102
13:04:23	2.852	297.0	0.111	13:04:54	2.856	328.5	0.107	13:05:26	2.864	360.0	0.099
13:04:23	2.857	297.5	0.106	13:04:55	2.856	329.0	0.107	13:05:26	2.867	360.5	0.096
13:04:24	2.852	298.0	0.111	13:04:55	2.861	329.5	0.102	13:05:27	2.871	361.0	0.092
13:04:24	2.857	298.5	0.106	13:04:56	2.856	330.0	0.107	13:05:27	2.863	361.5	0.1
13:04:25	2.853	299.0	0.11	13:04:56	2.853	330.5	0.11	13:05:28	2.863	362.0	0.1
13:04:25	2.855	299.5	0.108	13:04:57	2.855	331.0	0.108	13:05:28	2.863	362.5	0.1
13:04:26	2.851	300.0	0.112	13:04:57	2.864	331.5	0.099	13:05:29	2.867	363.0	0.096
13:04:26	2.857	300.5	0.106	13:04:58	2.857	332.0	0.106	13:05:29	2.864	363.5	0.099
13:04:27	2.852	301.0	0.111	13:04:58	2.856	332.5	0.107	13:05:30	2.868	364.0	0.095

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
13:05:30	2.864	364.5	0.099	13:06:02	2.872	396.0	0.091	13:06:33	2.876	427.5	0.087
13:05:31	2.864	365.0	0.099	13:06:02	2.869	396.5	0.094	13:06:34	2.877	428.0	0.086
13:05:31	2.869	365.5	0.094	13:06:03	2.871	397.0	0.092	13:06:34	2.883	428.5	0.08
13:05:32	2.867	366.0	0.096	13:06:03	2.876	397.5	0.087	13:06:35	2.88	429.0	0.083
13:05:32	2.864	366.5	0.099	13:06:04	2.869	398.0	0.094	13:06:35	2.873	429.5	0.09
13:05:33	2.864	367.0	0.099	13:06:04	2.869	398.5	0.094	13:06:36	2.871	430.0	0.092
13:05:33	2.864	367.5	0.099	13:06:05	2.871	399.0	0.092	13:06:36	2.872	430.5	0.091
13:05:34	2.864	368.0	0.099	13:06:05	2.875	399.5	0.088	13:06:37	2.875	431.0	0.088
13:05:34	2.863	368.5	0.1	13:06:06	2.869	400.0	0.094	13:06:37	2.872	431.5	0.091
13:05:35	2.867	369.0	0.096	13:06:06	2.869	400.5	0.094	13:06:38	2.879	432.0	0.084
13:05:35	2.864	369.5	0.099	13:06:07	2.869	401.0	0.094	13:06:38	2.872	432.5	0.091
13:05:36	2.864	370.0	0.099	13:06:07	2.869	401.5	0.094	13:06:39	2.873	433.0	0.09
13:05:36	2.863	370.5	0.1	13:06:08	2.872	402.0	0.091	13:06:39	2.872	433.5	0.091
13:05:37	2.869	371.0	0.094	13:06:08	2.871	402.5	0.092	13:06:40	2.877	434.0	0.086
13:05:37	2.865	371.5	0.098	13:06:09	2.869	403.0	0.094	13:06:40	2.875	434.5	0.088
13:05:38	2.865	372.0	0.098	13:06:09	2.869	403.5	0.094	13:06:41	2.881	435.0	0.082
13:05:38	2.868	372.5	0.095	13:06:10	2.871	404.0	0.092	13:06:41	2.883	435.5	0.08
13:05:39	2.863	373.0	0.1	13:06:10	2.869	404.5	0.094	13:06:42	2.881	436.0	0.082
13:05:39	2.865	373.5	0.098	13:06:11	2.879	405.0	0.084	13:06:42	2.875	436.5	0.088
13:05:40	2.864	374.0	0.099	13:06:11	2.873	405.5	0.09	13:06:43	2.873	437.0	0.09
13:05:40	2.863	374.5	0.1	13:06:12	2.869	406.0	0.094	13:06:43	2.881	437.5	0.082
13:05:41	2.865	375.0	0.098	13:06:12	2.869	406.5	0.094	13:06:44	2.875	438.0	0.088
13:05:41	2.865	375.5	0.098	13:06:13	2.873	407.0	0.09	13:06:44	2.873	438.5	0.09
13:05:42	2.865	376.0	0.098	13:06:13	2.871	407.5	0.092	13:06:45	2.873	439.0	0.09
13:05:42	2.863	376.5	0.1	13:06:14	2.875	408.0	0.088	13:06:45	2.879	439.5	0.084
13:05:43	2.864	377.0	0.099	13:06:14	2.869	408.5	0.094	13:06:46	2.883	440.0	0.08
13:05:43	2.865	377.5	0.098	13:06:15	2.868	409.0	0.095	13:06:46	2.88	440.5	0.083
13:05:44	2.864	378.0	0.099	13:06:15	2.869	409.5	0.094	13:06:47	2.883	441.0	0.08
13:05:44	2.867	378.5	0.096	13:06:16	2.871	410.0	0.092	13:06:47	2.877	441.5	0.086
13:05:45	2.864	379.0	0.099	13:06:16	2.869	410.5	0.094	13:06:48	2.875	442.0	0.088
13:05:45	2.867	379.5	0.096	13:06:17	2.871	411.0	0.092	13:06:48	2.881	442.5	0.082
13:05:46	2.865	380.0	0.098	13:06:17	2.871	411.5	0.092	13:06:49	2.875	443.0	0.088
13:05:46	2.876	380.5	0.087	13:06:18	2.869	412.0	0.094	13:06:49	2.879	443.5	0.084
13:05:47	2.871	381.0	0.092	13:06:18	2.871	412.5	0.092	13:06:50	2.875	444.0	0.088
13:05:47	2.871	381.5	0.092	13:06:19	2.871	413.0	0.092	13:06:50	2.877	444.5	0.086
13:05:48	2.869	382.0	0.094	13:06:19	2.871	413.5	0.092	13:06:51	2.879	445.0	0.084
13:05:48	2.868	382.5	0.095	13:06:20	2.877	414.0	0.086	13:06:51	2.879	445.5	0.084
13:05:49	2.869	383.0	0.094	13:06:20	2.872	414.5	0.091	13:06:52	2.881	446.0	0.082
13:05:49	2.868	383.5	0.095	13:06:21	2.872	415.0	0.091	13:06:52	2.877	446.5	0.086
13:05:50	2.868	384.0	0.095	13:06:21	2.871	415.5	0.092	13:06:53	2.875	447.0	0.088
13:05:50	2.868	384.5	0.095	13:06:22	2.871	416.0	0.092	13:06:53	2.876	447.5	0.087
13:05:51	2.867	385.0	0.096	13:06:22	2.872	416.5	0.091	13:06:54	2.881	448.0	0.082
13:05:51	2.873	385.5	0.09	13:06:23	2.871	417.0	0.092	13:06:54	2.875	448.5	0.088
13:05:52	2.873	386.0	0.09	13:06:23	2.88	417.5	0.083	13:06:55	2.876	449.0	0.087
13:05:52	2.868	386.5	0.095	13:06:24	2.879	418.0	0.084	13:06:55	2.877	449.5	0.086
13:05:53	2.867	387.0	0.096	13:06:24	2.871	418.5	0.092	13:06:56	2.883	450.0	0.08
13:05:53	2.867	387.5	0.096	13:06:25	2.873	419.0	0.09	13:06:56	2.877	450.5	0.086
13:05:54	2.867	388.0	0.096	13:06:25	2.88	419.5	0.083	13:06:57	2.876	451.0	0.087
13:05:54	2.865	388.5	0.098	13:06:26	2.875	420.0	0.088	13:06:57	2.876	451.5	0.087
13:05:55	2.871	389.0	0.092	13:06:26	2.875	420.5	0.088	13:06:58	2.879	452.0	0.084
13:05:55	2.867	389.5	0.096	13:06:27	2.875	421.0	0.088	13:06:58	2.877	452.5	0.086
13:05:56	2.869	390.0	0.094	13:06:27	2.873	421.5	0.09	13:06:59	2.879	453.0	0.084
13:05:56	2.876	390.5	0.087	13:06:28	2.879	422.0	0.084	13:06:59	2.877	453.5	0.086
13:05:57	2.867	391.0	0.096	13:06:28	2.876	422.5	0.087	13:07:00	2.877	454.0	0.086
13:05:57	2.867	391.5	0.096	13:06:29	2.873	423.0	0.09	13:07:00	2.876	454.5	0.087
13:05:58	2.869	392.0	0.094	13:06:29	2.876	423.5	0.087	13:07:01	2.877	455.0	0.086
13:05:58	2.868	392.5	0.095	13:06:30	2.877	424.0	0.086	13:07:01	2.877	455.5	0.086
13:05:59	2.868	393.0	0.095	13:06:30	2.875	424.5	0.088	13:07:02	2.877	456.0	0.086
13:05:59	2.873	393.5	0.09	13:06:31	2.881	425.0	0.082	13:07:02	2.885	456.5	0.078
13:06:00	2.869	394.0	0.094	13:06:31	2.872	425.5	0.091	13:07:03	2.875	457.0	0.088
13:06:00	2.869	394.5	0.094	13:06:32	2.875	426.0	0.088	13:07:03	2.876	457.5	0.087
13:06:01	2.867	395.0	0.096	13:06:32	2.871	426.5	0.092	13:07:04	2.876	458.0	0.087
13:06:01	2.876	395.5	0.087	13:06:33	2.876	427.0	0.087	13:07:04	2.879	458.5	0.084

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
13:07:05	2.872	459.0	0.091	13:07:36	2.88	490.5	0.083	13:08:08	2.885	522.0	0.078
13:07:05	2.879	459.5	0.084	13:07:37	2.879	491.0	0.084	13:08:08	2.884	522.5	0.079
13:07:06	2.877	460.0	0.086	13:07:37	2.881	491.5	0.082	13:08:09	2.889	523.0	0.074
13:07:06	2.877	460.5	0.086	13:07:38	2.88	492.0	0.083	13:08:09	2.884	523.5	0.079
13:07:07	2.875	461.0	0.088	13:07:38	2.881	492.5	0.082	13:08:10	2.885	524.0	0.078
13:07:07	2.879	461.5	0.084	13:07:39	2.881	493.0	0.082	13:08:10	2.885	524.5	0.078
13:07:08	2.877	462.0	0.086	13:07:39	2.88	493.5	0.083	13:08:11	2.885	525.0	0.078
13:07:08	2.88	462.5	0.083	13:07:40	2.88	494.0	0.083	13:08:11	2.888	525.5	0.075
13:07:09	2.876	463.0	0.087	13:07:40	2.887	494.5	0.076	13:08:12	2.887	526.0	0.076
13:07:09	2.879	463.5	0.084	13:07:41	2.879	495.0	0.084	13:08:12	2.891	526.5	0.072
13:07:10	2.879	464.0	0.084	13:07:41	2.88	495.5	0.083	13:08:13	2.884	527.0	0.079
13:07:10	2.877	464.5	0.086	13:07:42	2.88	496.0	0.083	13:08:13	2.885	527.5	0.078
13:07:11	2.875	465.0	0.088	13:07:42	2.88	496.5	0.083	13:08:14	2.887	528.0	0.076
13:07:11	2.879	465.5	0.084	13:07:43	2.885	497.0	0.078	13:08:14	2.885	528.5	0.078
13:07:12	2.877	466.0	0.086	13:07:43	2.881	497.5	0.082	13:08:15	2.885	529.0	0.078
13:07:12	2.879	466.5	0.084	13:07:44	2.88	498.0	0.083	13:08:15	2.892	529.5	0.071
13:07:13	2.877	467.0	0.086	13:07:44	2.883	498.5	0.08	13:08:16	2.884	530.0	0.079
13:07:13	2.883	467.5	0.08	13:07:45	2.881	499.0	0.082	13:08:16	2.883	530.5	0.08
13:07:14	2.881	468.0	0.082	13:07:45	2.883	499.5	0.08	13:08:17	2.885	531.0	0.078
13:07:14	2.887	468.5	0.076	13:07:46	2.879	500.0	0.084	13:08:17	2.888	531.5	0.075
13:07:15	2.877	469.0	0.086	13:07:46	2.881	500.5	0.082	13:08:18	2.885	532.0	0.078
13:07:15	2.879	469.5	0.084	13:07:47	2.881	501.0	0.082	13:08:18	2.887	532.5	0.076
13:07:16	2.877	470.0	0.086	13:07:47	2.884	501.5	0.079	13:08:19	2.884	533.0	0.079
13:07:16	2.877	470.5	0.086	13:07:48	2.88	502.0	0.083	13:08:19	2.885	533.5	0.078
13:07:17	2.88	471.0	0.083	13:07:48	2.881	502.5	0.082	13:08:20	2.881	534.0	0.082
13:07:17	2.877	471.5	0.086	13:07:49	2.884	503.0	0.079	13:08:20	2.884	534.5	0.079
13:07:18	2.887	472.0	0.076	13:07:49	2.889	503.5	0.074	13:08:21	2.881	535.0	0.082
13:07:18	2.88	472.5	0.083	13:07:50	2.888	504.0	0.075	13:08:21	2.889	535.5	0.074
13:07:19	2.879	473.0	0.084	13:07:50	2.879	504.5	0.084	13:08:22	2.887	536.0	0.076
13:07:19	2.88	473.5	0.083	13:07:51	2.879	505.0	0.084	13:08:22	2.885	536.5	0.078
13:07:20	2.877	474.0	0.086	13:07:51	2.881	505.5	0.082	13:08:23	2.883	537.0	0.08
13:07:20	2.88	474.5	0.083	13:07:52	2.881	506.0	0.082	13:08:23	2.892	537.5	0.071
13:07:21	2.877	475.0	0.086	13:07:52	2.887	506.5	0.076	13:08:24	2.888	538.0	0.075
13:07:21	2.877	475.5	0.086	13:07:53	2.884	507.0	0.079	13:08:24	2.887	538.5	0.076
13:07:22	2.883	476.0	0.08	13:07:53	2.884	507.5	0.079	13:08:25	2.887	539.0	0.076
13:07:22	2.876	476.5	0.087	13:07:54	2.884	508.0	0.079	13:08:25	2.884	539.5	0.079
13:07:23	2.879	477.0	0.084	13:07:54	2.885	508.5	0.078	13:08:26	2.887	540.0	0.076
13:07:23	2.877	477.5	0.086	13:07:55	2.885	509.0	0.078	13:08:26	2.889	540.5	0.074
13:07:24	2.879	478.0	0.084	13:07:55	2.889	509.5	0.074	13:08:27	2.887	541.0	0.076
13:07:24	2.877	478.5	0.086	13:07:56	2.881	510.0	0.082	13:08:27	2.887	541.5	0.076
13:07:25	2.877	479.0	0.086	13:07:56	2.884	510.5	0.079	13:08:28	2.885	542.0	0.078
13:07:25	2.879	479.5	0.084	13:07:57	2.883	511.0	0.08	13:08:28	2.885	542.5	0.078
13:07:26	2.876	480.0	0.087	13:07:57	2.889	511.5	0.074	13:08:29	2.889	543.0	0.074
13:07:26	2.881	480.5	0.082	13:07:58	2.884	512.0	0.079	13:08:29	2.893	543.5	0.07
13:07:27	2.885	481.0	0.078	13:07:58	2.888	512.5	0.075				
13:07:27	2.879	481.5	0.084	13:07:59	2.881	513.0	0.082				
13:07:28	2.877	482.0	0.086	13:07:59	2.888	513.5	0.075				
13:07:28	2.876	482.5	0.087	13:08:00	2.881	514.0	0.082				
13:07:29	2.879	483.0	0.084	13:08:00	2.885	514.5	0.078				
13:07:29	2.877	483.5	0.086	13:08:01	2.885	515.0	0.078				
13:07:30	2.887	484.0	0.076	13:08:01	2.884	515.5	0.079				
13:07:30	2.885	484.5	0.078	13:08:02	2.885	516.0	0.078				
13:07:31	2.879	485.0	0.084	13:08:02	2.887	516.5	0.076				
13:07:31	2.877	485.5	0.086	13:08:03	2.883	517.0	0.08				
13:07:32	2.879	486.0	0.084	13:08:03	2.885	517.5	0.078				
13:07:32	2.881	486.5	0.082	13:08:04	2.888	518.0	0.075				
13:07:33	2.885	487.0	0.078	13:08:04	2.883	518.5	0.08				
13:07:33	2.88	487.5	0.083	13:08:05	2.884	519.0	0.079				
13:07:34	2.879	488.0	0.084	13:08:05	2.885	519.5	0.078				
13:07:34	2.885	488.5	0.078	13:08:06	2.888	520.0	0.075				
13:07:35	2.879	489.0	0.084	13:08:06	2.889	520.5	0.074				
13:07:35	2.877	489.5	0.086	13:08:07	2.889	521.0	0.074				
13:07:36	2.879	490.0	0.084	13:08:07	2.885	521.5	0.078				



EBA Engineering Consultants
Calcite Buisness Centre
Unit 6, 151 Industrial Road
Whitehorse, Yukon Y1A 2V3

Slug Test Analysis Report

Number: W23101317

Project: 2010 Monitoring Program Champagne

Client: Yukon Government

Location Champagne

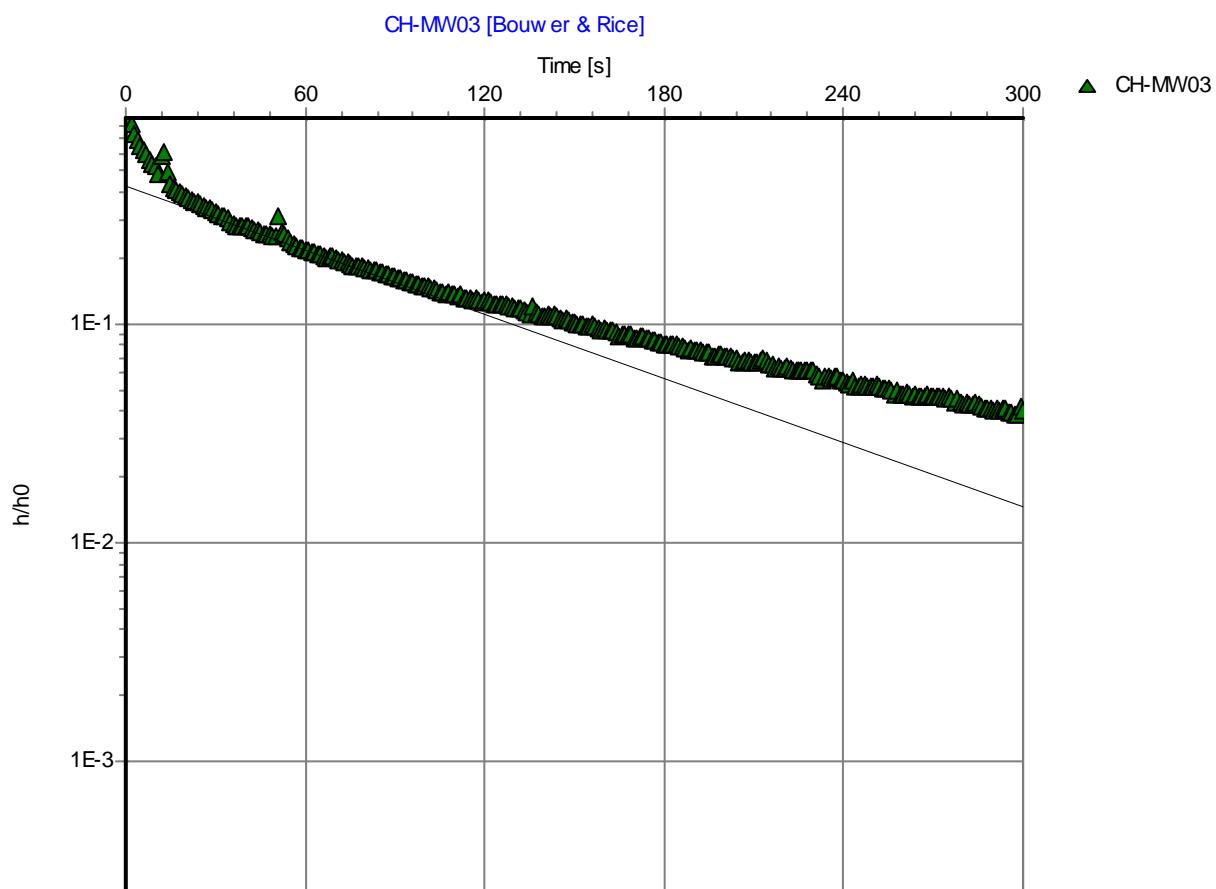
Test performed by: ER

Evaluated by: BCW

Test date: 12/15/2010

Reviewed by: SK

Analysis Method: Bouwer & Rice



Conductivity: 3.67E-6 [m/s]

Comments:



EBA Engineering Consultants
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Unit 6, 151 Industrial Road
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Slug Test Analysis Report

Number: W23101317

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Location Champagne

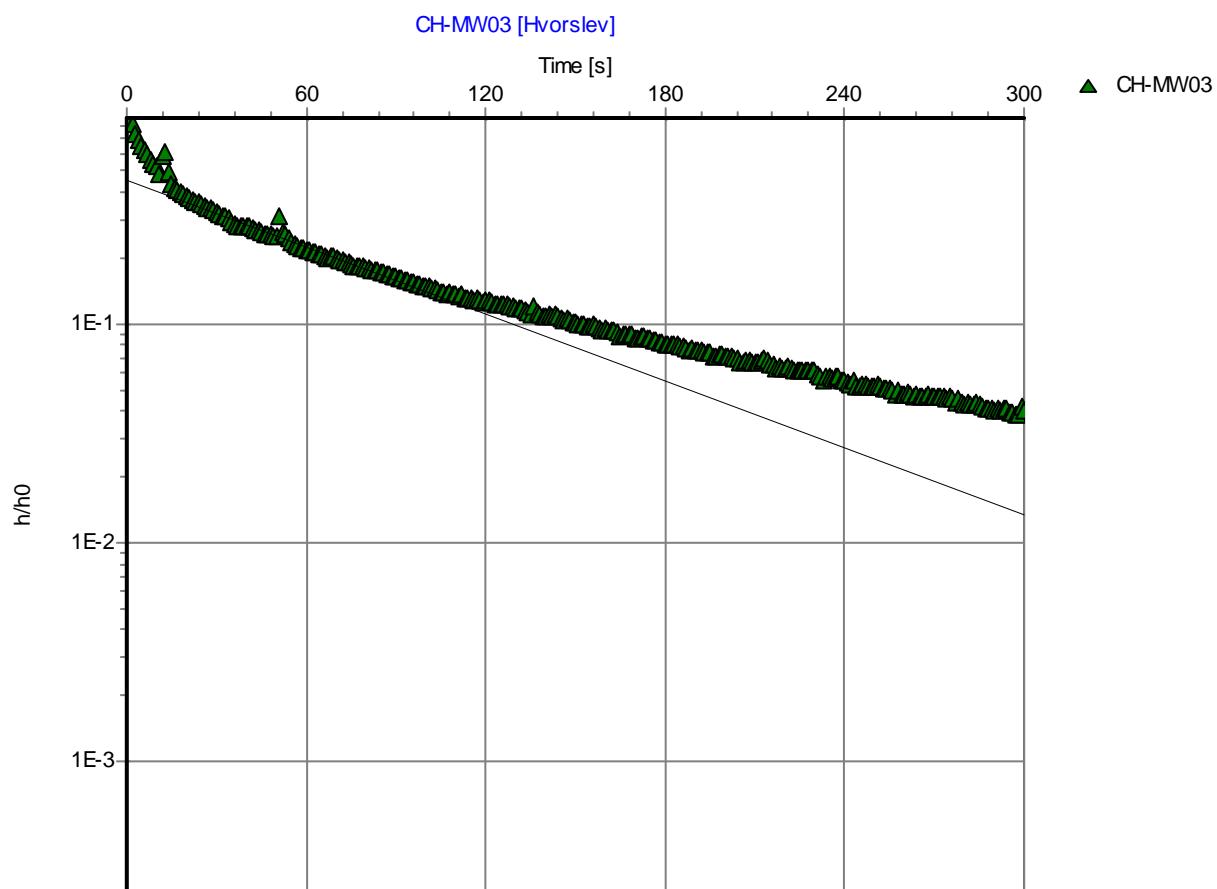
Test performed by: ER

Evaluated by: BCW

Test date: 12/15/2010

Reviewed by: SK

Analysis Method: Hvorslev



Conductivity: 5.02E-6 [m/s]

Comments:

2010 Monitoring Well Program

Serial Number 1047505

Project ID W23101317

Location**Champagne CH-MW03**

Channel 1

Identification

Static (m btoc)

2.73

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
16:56:52	2.1887	0	0.5415	16:57:46	2.4903	54	0.2399	16:58:40	2.5347	108	0.1955
16:56:53	2.2404	1	0.4898	16:57:47	2.4953	55	0.2349	16:58:41	2.535	109	0.1952
16:56:54	2.265	2	0.4652	16:57:48	2.4969	56	0.2333	16:58:42	2.5354	110	0.1948
16:56:55	2.2953	3	0.4349	16:57:49	2.4989	57	0.2313	16:58:43	2.536	111	0.1942
16:56:56	2.3154	4	0.4148	16:57:50	2.5009	58	0.2293	16:58:44	2.5351	112	0.1951
16:56:57	2.3278	5	0.4024	16:57:51	2.5018	59	0.2284	16:58:45	2.5371	113	0.1931
16:56:58	2.3412	6	0.389	16:57:52	2.5024	60	0.2278	16:58:46	2.5372	114	0.193
16:56:59	2.3528	7	0.3774	16:57:53	2.5025	61	0.2277	16:58:47	2.5378	115	0.1924
16:57:00	2.3671	8	0.3631	16:57:54	2.505	62	0.2252	16:58:48	2.5392	116	0.191
16:57:01	2.3731	9	0.3571	16:57:55	2.5046	63	0.2256	16:58:49	2.538	117	0.1922
16:57:02	2.3813	10	0.3489	16:57:56	2.5064	64	0.2238	16:58:50	2.5388	118	0.1914
16:57:03	2.3977	11	0.3325	16:57:57	2.5067	65	0.2235	16:58:51	2.5393	119	0.1909
16:57:04	2.356	12	0.3742	16:57:58	2.5088	66	0.2214	16:58:52	2.539	120	0.1912
16:57:05	2.3473	13	0.3829	16:57:59	2.5102	67	0.22	16:58:53	2.5392	121	0.191
16:57:06	2.3904	14	0.3398	16:58:00	2.5087	68	0.2215	16:58:54	2.5397	122	0.1905
16:57:07	2.4152	15	0.315	16:58:01	2.509	69	0.2212	16:58:55	2.5403	123	0.1899
16:57:08	2.4218	16	0.3084	16:58:02	2.5108	70	0.2194	16:58:56	2.5404	124	0.1898
16:57:09	2.4255	17	0.3047	16:58:03	2.5117	71	0.2185	16:58:57	2.5405	125	0.1897
16:57:10	2.4298	18	0.3004	16:58:04	2.5124	72	0.2178	16:58:58	2.541	126	0.1892
16:57:11	2.4334	19	0.2968	16:58:05	2.5139	73	0.2163	16:58:59	2.5404	127	0.1898
16:57:12	2.436	20	0.2942	16:58:06	2.5141	74	0.2161	16:59:00	2.5415	128	0.1887
16:57:13	2.4391	21	0.2911	16:58:07	2.5144	75	0.2158	16:59:01	2.5418	129	0.1884
16:57:14	2.4415	22	0.2887	16:58:08	2.5163	76	0.2139	16:59:02	2.5424	130	0.1878
16:57:15	2.4448	23	0.2854	16:58:09	2.5161	77	0.2141	16:59:03	2.5424	131	0.1878
16:57:16	2.4467	24	0.2835	16:58:10	2.5168	78	0.2134	16:59:04	2.5425	132	0.1877
16:57:17	2.4499	25	0.2803	16:58:11	2.5168	79	0.2134	16:59:05	2.544	133	0.1862
16:57:18	2.4527	26	0.2775	16:58:12	2.5179	80	0.2123	16:59:06	2.5446	134	0.1856
16:57:19	2.4548	27	0.2754	16:58:13	2.518	81	0.2122	16:59:07	2.5458	135	0.1844
16:57:20	2.4556	28	0.2746	16:58:14	2.5198	82	0.2104	16:59:08	2.5417	136	0.1885
16:57:21	2.4582	29	0.272	16:58:15	2.52	83	0.2102	16:59:09	2.5447	137	0.1855
16:57:22	2.4603	30	0.2699	16:58:16	2.5202	84	0.21	16:59:10	2.5454	138	0.1848
16:57:23	2.4621	31	0.2681	16:58:17	2.5213	85	0.2089	16:59:11	2.5465	139	0.1837
16:57:24	2.4643	32	0.2659	16:58:18	2.5209	86	0.2093	16:59:12	2.5462	140	0.184
16:57:25	2.4653	33	0.2649	16:58:19	2.5222	87	0.208	16:59:13	2.546	141	0.1842
16:57:26	2.4691	34	0.2611	16:58:20	2.5229	88	0.2073	16:59:14	2.547	142	0.1832
16:57:27	2.4729	35	0.2573	16:58:21	2.5239	89	0.2063	16:59:15	2.5458	143	0.1844
16:57:28	2.475	36	0.2552	16:58:22	2.5243	90	0.2059	16:59:16	2.5462	144	0.184
16:57:29	2.4769	37	0.2533	16:58:23	2.5256	91	0.2046	16:59:17	2.5479	145	0.1823
16:57:30	2.4788	38	0.2514	16:58:24	2.5257	92	0.2045	16:59:18	2.5484	146	0.1818
16:57:31	2.4791	39	0.2511	16:58:25	2.5264	93	0.2038	16:59:19	2.5478	147	0.1824
16:57:32	2.4782	40	0.252	16:58:26	2.5272	94	0.203	16:59:20	2.5483	148	0.1819
16:57:33	2.4791	41	0.2511	16:58:27	2.5278	95	0.2024	16:59:21	2.5489	149	0.1813
16:57:34	2.4806	42	0.2496	16:58:28	2.5284	96	0.2018	16:59:22	2.5496	150	0.1806
16:57:35	2.4832	43	0.247	16:58:29	2.5289	97	0.2013	16:59:23	2.5499	151	0.1803
16:57:36	2.4828	44	0.2474	16:58:30	2.5295	98	0.2007	16:59:24	2.55	152	0.1802
16:57:37	2.4838	45	0.2464	16:58:31	2.5303	99	0.1999	16:59:25	2.5503	153	0.1799
16:57:38	2.4867	46	0.2435	16:58:32	2.5306	100	0.1996	16:59:26	2.5512	154	0.179
16:57:39	2.4869	47	0.2433	16:58:33	2.5307	101	0.1995	16:59:27	2.5508	155	0.1794
16:57:40	2.4879	48	0.2423	16:58:34	2.5319	102	0.1983	16:59:28	2.5503	156	0.1799
16:57:41	2.4884	49	0.2418	16:58:35	2.5322	103	0.198	16:59:29	2.551	157	0.1792
16:57:42	2.4895	50	0.2407	16:58:36	2.5329	104	0.1973	16:59:30	2.5514	158	0.1788
16:57:43	2.4657	51	0.2645	16:58:37	2.5341	105	0.1961	16:59:31	2.5523	159	0.1779
16:57:44	2.4841	52	0.2461	16:58:38	2.5346	106	0.1956	16:59:32	2.5518	160	0.1784
16:57:45	2.4878	53	0.2424	16:58:39	2.5355	107	0.1947	16:59:33	2.5528	161	0.1774

Preliminary Hydrogeological Assessment | Champagne Waste Disposal Facility

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
16:59:34	2.5527	162	0.1775	17:00:36	2.5654	224	0.1648	17:01:38	2.5733	286	0.1569
16:59:35	2.5525	163	0.1777	17:00:37	2.5655	225	0.1647	17:01:39	2.5735	287	0.1567
16:59:36	2.5534	164	0.1768	17:00:38	2.5655	226	0.1647	17:01:40	2.5734	288	0.1568
16:59:37	2.5551	165	0.1751	17:00:39	2.5656	227	0.1646	17:01:41	2.5735	289	0.1567
16:59:38	2.5538	166	0.1764	17:00:40	2.5656	228	0.1646	17:01:42	2.5739	290	0.1563
16:59:39	2.5539	167	0.1763	17:00:41	2.5654	229	0.1648	17:01:43	2.5735	291	0.1567
16:59:40	2.5542	168	0.176	17:00:42	2.5656	230	0.1646	17:01:44	2.5738	292	0.1564
16:59:41	2.5544	169	0.1758	17:00:43	2.5667	231	0.1635	17:01:45	2.5737	293	0.1565
16:59:42	2.5556	170	0.1746	17:00:44	2.5671	232	0.1631	17:01:46	2.5736	294	0.1566
16:59:43	2.5554	171	0.1748	17:00:45	2.5678	233	0.1624	17:01:47	2.5742	295	0.156
16:59:44	2.555	172	0.1752	17:00:46	2.567	234	0.1632	17:01:48	2.5742	296	0.156
16:59:45	2.555	173	0.1752	17:00:47	2.5669	235	0.1633	17:01:49	2.5745	297	0.1557
16:59:46	2.5554	174	0.1748	17:00:48	2.5675	236	0.1627	17:01:50	2.5745	298	0.1557
16:59:47	2.5557	175	0.1745	17:00:49	2.567	237	0.1632	17:01:51	2.5733	299	0.1569
16:59:48	2.5563	176	0.1739	17:00:50	2.5671	238	0.1631	17:01:52	2.574	300	0.1562
16:59:49	2.5566	177	0.1736	17:00:51	2.5677	239	0.1625	17:01:53	2.5744	301	0.1558
16:59:50	2.5568	178	0.1734	17:00:52	2.5679	240	0.1623	17:01:54	2.5742	302	0.156
16:59:51	2.5568	179	0.1734	17:00:53	2.5686	241	0.1616	17:01:55	2.5745	303	0.1557
16:59:52	2.5575	180	0.1727	17:00:54	2.5688	242	0.1614	17:01:56	2.5744	304	0.1558
16:59:53	2.5578	181	0.1724	17:00:55	2.5681	243	0.1621	17:01:57	2.5748	305	0.1554
16:59:54	2.5579	182	0.1723	17:00:56	2.5691	244	0.1611	17:01:58	2.5756	306	0.1546
16:59:55	2.5579	183	0.1723	17:00:57	2.5692	245	0.161	17:01:59	2.5754	307	0.1548
16:59:56	2.5578	184	0.1724	17:00:58	2.5688	246	0.1614	17:02:00	2.5748	308	0.1554
16:59:57	2.5583	185	0.1719	17:00:59	2.569	247	0.1612	17:02:01	2.5755	309	0.1547
16:59:58	2.5586	186	0.1716	17:01:00	2.5693	248	0.1609	17:02:02	2.5751	310	0.1551
16:59:59	2.5593	187	0.1709	17:01:01	2.5692	249	0.161	17:02:03	2.5756	311	0.1546
17:00:00	2.5594	188	0.1708	17:01:02	2.5692	250	0.161	17:02:04	2.5756	312	0.1546
17:00:01	2.559	189	0.1712	17:01:03	2.569	251	0.1612	17:02:05	2.5756	313	0.1546
17:00:02	2.5597	190	0.1705	17:01:04	2.5694	252	0.1608	17:02:06	2.5755	314	0.1547
17:00:03	2.5597	191	0.1705	17:01:05	2.5698	253	0.1604	17:02:07	2.5754	315	0.1548
17:00:04	2.5598	192	0.1704	17:01:06	2.5697	254	0.1605	17:02:08	2.5762	316	0.154
17:00:05	2.5605	193	0.1697	17:01:07	2.5698	255	0.1604	17:02:09	2.5751	317	0.1551
17:00:06	2.5602	194	0.17	17:01:08	2.5702	256	0.16	17:02:10	2.5756	318	0.1546
17:00:07	2.5605	195	0.1697	17:01:09	2.5708	257	0.1594	17:02:11	2.5758	319	0.1544
17:00:08	2.5614	196	0.1688	17:01:10	2.5701	258	0.1601	17:02:12	2.5759	320	0.1543
17:00:09	2.5613	197	0.1689	17:01:11	2.5708	259	0.1594	17:02:13	2.5759	321	0.1543
17:00:10	2.561	198	0.1692	17:01:12	2.5709	260	0.1593	17:02:14	2.5766	322	0.1536
17:00:11	2.5612	199	0.169	17:01:13	2.5706	261	0.1596	17:02:15	2.5753	323	0.1549
17:00:12	2.5618	200	0.1684	17:01:14	2.571	262	0.1592	17:02:16	2.5761	324	0.1541
17:00:13	2.5614	201	0.1688	17:01:15	2.5712	263	0.159	17:02:17	2.5755	325	0.1547
17:00:14	2.5617	202	0.1685	17:01:16	2.5711	264	0.1591	17:02:18	2.5756	326	0.1546
17:00:15	2.5619	203	0.1683	17:01:17	2.5712	265	0.159	17:02:19	2.5757	327	0.1545
17:00:16	2.5624	204	0.1678	17:01:18	2.5714	266	0.1588	17:02:20	2.5762	328	0.154
17:00:17	2.5632	205	0.167	17:01:19	2.5714	267	0.1588	17:02:21	2.5759	329	0.1543
17:00:18	2.5632	206	0.167	17:01:20	2.5708	268	0.1594	17:02:22	2.5765	330	0.1537
17:00:19	2.5627	207	0.1675	17:01:21	2.5714	269	0.1588	17:02:23	2.5765	331	0.1537
17:00:20	2.5628	208	0.1674	17:01:22	2.5713	270	0.1589	17:02:24	2.5764	332	0.1538
17:00:21	2.5634	209	0.1668	17:01:23	2.5715	271	0.1587	17:02:25	2.5763	333	0.1539
17:00:22	2.5633	210	0.1669	17:01:24	2.5715	272	0.1587	17:02:26	2.5765	334	0.1537
17:00:23	2.5632	211	0.167	17:01:25	2.5715	273	0.1587	17:02:27	2.5766	335	0.1536
17:00:24	2.563	212	0.1672	17:01:26	2.5716	274	0.1586	17:02:28	2.5764	336	0.1538
17:00:25	2.5624	213	0.1678	17:01:27	2.5715	275	0.1587	17:02:29	2.5768	337	0.1534
17:00:26	2.5628	214	0.1674	17:01:28	2.5717	276	0.1585	17:02:30	2.5766	338	0.1536
17:00:27	2.5639	215	0.1663	17:01:29	2.5724	277	0.1578	17:02:31	2.577	339	0.1532
17:00:28	2.5636	216	0.1666	17:01:30	2.5718	278	0.1584	17:02:32	2.5771	340	0.1531
17:00:29	2.565	217	0.1652	17:01:31	2.5724	279	0.1578	17:02:33	2.5772	341	0.153
17:00:30	2.5643	218	0.1659	17:01:32	2.5728	280	0.1574	17:02:34	2.5769	342	0.1533
17:00:31	2.5647	219	0.1655	17:01:33	2.5724	281	0.1578	17:02:35	2.5774	343	0.1528
17:00:32	2.5647	220	0.1655	17:01:34	2.573	282	0.1572	17:02:36	2.5772	344	0.153
17:00:33	2.5646	221	0.1656	17:01:35	2.5728	283	0.1574	17:02:37	2.5773	345	0.1529
17:00:34	2.565	222	0.1652	17:01:36	2.5726	284	0.1576	17:02:38	2.5771	346	0.1531
17:00:35	2.5655	223	0.1647	17:01:37	2.5729	285	0.1573	17:02:39	2.5773	347	0.1529

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
17:02:40	2.5773	348	0.1529	17:03:42	2.5791	410	0.1511	17:04:44	2.5825	472	0.1477
17:02:41	2.5779	349	0.1523	17:03:43	2.5796	411	0.1506	17:04:45	2.5822	473	0.148
17:02:42	2.5776	350	0.1526	17:03:44	2.5787	412	0.1515	17:04:46	2.5823	474	0.1479
17:02:43	2.578	351	0.1522	17:03:45	2.5795	413	0.1507	17:04:47	2.5824	475	0.1478
17:02:44	2.5773	352	0.1529	17:03:46	2.5793	414	0.1509	17:04:48	2.5823	476	0.1479
17:02:45	2.5777	353	0.1525	17:03:47	2.5794	415	0.1508	17:04:49	2.5825	477	0.1477
17:02:46	2.578	354	0.1522	17:03:48	2.5794	416	0.1508	17:04:50	2.5825	478	0.1477
17:02:47	2.5775	355	0.1527	17:03:49	2.5797	417	0.1505	17:04:51	2.5826	479	0.1476
17:02:48	2.5781	356	0.1521	17:03:50	2.5799	418	0.1503	17:04:52	2.5822	480	0.148
17:02:49	2.5779	357	0.1523	17:03:51	2.58	419	0.1502	17:04:53	2.5824	481	0.1478
17:02:50	2.578	358	0.1522	17:03:52	2.5797	420	0.1505	17:04:54	2.5827	482	0.1475
17:02:51	2.5781	359	0.1521	17:03:53	2.5804	421	0.1498	17:04:55	2.5827	483	0.1475
17:02:52	2.5779	360	0.1523	17:03:54	2.58	422	0.1502	17:04:56	2.5828	484	0.1474
17:02:53	2.5786	361	0.1516	17:03:55	2.5797	423	0.1505	17:04:57	2.5829	485	0.1473
17:02:54	2.5783	362	0.1519	17:03:56	2.5798	424	0.1504	17:04:58	2.5827	486	0.1475
17:02:55	2.5778	363	0.1524	17:03:57	2.5801	425	0.1501	17:04:59	2.5827	487	0.1475
17:02:56	2.578	364	0.1522	17:03:58	2.5807	426	0.1495	17:05:00	2.5826	488	0.1476
17:02:57	2.5781	365	0.1521	17:03:59	2.5808	427	0.1494	17:05:01	2.5833	489	0.1469
17:02:58	2.5777	366	0.1525	17:04:00	2.5803	428	0.1499	17:05:02	2.583	490	0.1472
17:02:59	2.5784	367	0.1518	17:04:01	2.5799	429	0.1503	17:05:03	2.5826	491	0.1476
17:03:00	2.5785	368	0.1517	17:04:02	2.5806	430	0.1496	17:05:04	2.5829	492	0.1473
17:03:01	2.5786	369	0.1516	17:04:03	2.5807	431	0.1495	17:05:05	2.583	493	0.1472
17:03:02	2.5791	370	0.1511	17:04:04	2.5811	432	0.1491	17:05:06	2.5833	494	0.1469
17:03:03	2.5785	371	0.1517	17:04:05	2.5808	433	0.1494	17:05:07	2.583	495	0.1472
17:03:04	2.5789	372	0.1513	17:04:06	2.5808	434	0.1494	17:05:08	2.5832	496	0.147
17:03:05	2.5783	373	0.1519	17:04:07	2.5809	435	0.1493	17:05:09	2.5828	497	0.1474
17:03:06	2.5788	374	0.1514	17:04:08	2.5807	436	0.1495	17:05:10	2.5833	498	0.1469
17:03:07	2.5795	375	0.1507	17:04:09	2.5807	437	0.1495	17:05:11	2.5834	499	0.1468
17:03:08	2.579	376	0.1512	17:04:10	2.581	438	0.1492	17:05:12	2.5833	500	0.1469
17:03:09	2.5789	377	0.1513	17:04:11	2.581	439	0.1492	17:05:13	2.5834	501	0.1468
17:03:10	2.5792	378	0.151	17:04:12	2.5813	440	0.1489	17:05:14	2.5835	502	0.1467
17:03:11	2.5784	379	0.1518	17:04:13	2.5809	441	0.1493	17:05:15	2.5829	503	0.1473
17:03:12	2.5791	380	0.1511	17:04:14	2.5814	442	0.1488	17:05:16	2.5832	504	0.147
17:03:13	2.5791	381	0.1511	17:04:15	2.5815	443	0.1487	17:05:17	2.5828	505	0.1474
17:03:14	2.5789	382	0.1513	17:04:16	2.5814	444	0.1488	17:05:18	2.5834	506	0.1468
17:03:15	2.5789	383	0.1513	17:04:17	2.5815	445	0.1487	17:05:19	2.583	507	0.1472
17:03:16	2.5788	384	0.1514	17:04:18	2.5813	446	0.1489	17:05:20	2.5832	508	0.147
17:03:17	2.5794	385	0.1508	17:04:19	2.5815	447	0.1487	17:05:21	2.5833	509	0.1469
17:03:18	2.5796	386	0.1506	17:04:20	2.582	448	0.1482	17:05:22	2.5835	510	0.1467
17:03:19	2.5797	387	0.1505	17:04:21	2.5816	449	0.1486	17:05:23	2.5833	511	0.1469
17:03:20	2.5799	388	0.1503	17:04:22	2.5817	450	0.1485	17:05:24	2.5835	512	0.1467
17:03:21	2.5802	389	0.15	17:04:23	2.5816	451	0.1486	17:05:25	2.583	513	0.1472
17:03:22	2.5797	390	0.1505	17:04:24	2.5813	452	0.1489	17:05:26	2.5831	514	0.1471
17:03:23	2.5735	391	0.1567	17:04:25	2.5816	453	0.1486	17:05:27	2.5836	515	0.1466
17:03:24	2.5791	392	0.1511	17:04:26	2.5818	454	0.1484	17:05:28	2.5837	516	0.1465
17:03:25	2.5799	393	0.1503	17:04:27	2.582	455	0.1482	17:05:29	2.5831	517	0.1471
17:03:26	2.5825	394	0.1477	17:04:28	2.5819	456	0.1483	17:05:30	2.5833	518	0.1469
17:03:27	2.5989	395	0.1313	17:04:29	2.5814	457	0.1488	17:05:31	2.5837	519	0.1465
17:03:28	2.5851	396	0.1451	17:04:30	2.5817	458	0.1485	17:05:32	2.5835	520	0.1467
17:03:29	2.5765	397	0.1537	17:04:31	2.5819	459	0.1483	17:05:33	2.5839	521	0.1463
17:03:30	2.5773	398	0.1529	17:04:32	2.5817	460	0.1485	17:05:34	2.5836	522	0.1466
17:03:31	2.5775	399	0.1527	17:04:33	2.5825	461	0.1477	17:05:35	2.5836	523	0.1466
17:03:32	2.5777	400	0.1525	17:04:34	2.5819	462	0.1483	17:05:36	2.584	524	0.1462
17:03:33	2.5774	401	0.1528	17:04:35	2.5821	463	0.1481	17:05:37	2.5837	525	0.1465
17:03:34	2.5762	402	0.154	17:04:36	2.5816	464	0.1486	17:05:38	2.5838	526	0.1464
17:03:35	2.5773	403	0.1529	17:04:37	2.582	465	0.1482	17:05:39	2.5838	527	0.1464
17:03:36	2.5786	404	0.1516	17:04:38	2.582	466	0.1482	17:05:40	2.5839	528	0.1463
17:03:37	2.5786	405	0.1516	17:04:39	2.5823	467	0.1479	17:05:41	2.5838	529	0.1464
17:03:38	2.5786	406	0.1516	17:04:40	2.5822	468	0.148	17:05:42	2.584	530	0.1462
17:03:39	2.5791	407	0.1511	17:04:41	2.5824	469	0.1478	17:05:43	2.5838	531	0.1464
17:03:40	2.579	408	0.1512	17:04:42	2.5824	470	0.1478	17:05:44	2.5836	532	0.1466
17:03:41	2.5792	409	0.151	17:04:43	2.5823	471	0.1479	17:05:45	2.5833	533	0.1469

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
17:05:46	2.5837	534	0.1465	17:06:48	2.5848	596	0.1454	17:07:50	2.5833	658	0.1469
17:05:47	2.584	535	0.1462	17:06:49	2.5843	597	0.1459	17:07:51	2.5844	659	0.1458
17:05:48	2.5838	536	0.1464	17:06:50	2.5845	598	0.1457	17:07:52	2.5832	660	0.147
17:05:49	2.5837	537	0.1465	17:06:51	2.5848	599	0.1454	17:07:53	2.5844	661	0.1458
17:05:50	2.5836	538	0.1466	17:06:52	2.5849	600	0.1453	17:07:54	2.5843	662	0.1459
17:05:51	2.5839	539	0.1463	17:06:53	2.5845	601	0.1457	17:07:55	2.5842	663	0.146
17:05:52	2.5841	540	0.1461	17:06:54	2.5843	602	0.1459	17:07:56	2.5841	664	0.1461
17:05:53	2.5841	541	0.1461	17:06:55	2.5842	603	0.146	17:07:57	2.5845	665	0.1457
17:05:54	2.5835	542	0.1467	17:06:56	2.585	604	0.1452	17:07:58	2.584	666	0.1462
17:05:55	2.584	543	0.1462	17:06:57	2.5866	605	0.1436	17:07:59	2.5842	667	0.146
17:05:56	2.584	544	0.1462	17:06:58	2.5963	606	0.1339	17:08:00	2.5844	668	0.1458
17:05:57	2.5839	545	0.1463	17:06:59	2.604	607	0.1262	17:08:01	2.5845	669	0.1457
17:05:58	2.5837	546	0.1465	17:07:00	2.5924	608	0.1378	17:08:02	2.5841	670	0.1461
17:05:59	2.5837	547	0.1465	17:07:01	2.5825	609	0.1477	17:08:03	2.5847	671	0.1455
17:06:00	2.5838	548	0.1464	17:07:02	2.579	610	0.1512	17:08:04	2.5846	672	0.1456
17:06:01	2.5839	549	0.1463	17:07:03	2.585	611	0.1452	17:08:05	2.5856	673	0.1446
17:06:02	2.5842	550	0.146	17:07:04	2.5808	612	0.1494	17:08:06	2.5813	674	0.1489
17:06:03	2.5834	551	0.1468	17:07:05	2.5791	613	0.1511	17:08:07	2.5822	675	0.148
17:06:04	2.5841	552	0.1461	17:07:06	2.5788	614	0.1514	17:08:08	2.5845	676	0.1457
17:06:05	2.584	553	0.1462	17:07:07	2.5803	615	0.1499	17:08:09	2.5845	677	0.1457
17:06:06	2.584	554	0.1462	17:07:08	2.5804	616	0.1498	17:08:10	2.5845	678	0.1457
17:06:07	2.5845	555	0.1457	17:07:09	2.5808	617	0.1494	17:08:11	2.5849	679	0.1453
17:06:08	2.584	556	0.1462	17:07:10	2.5811	618	0.1491	17:08:12	2.5846	680	0.1456
17:06:09	2.5841	557	0.1461	17:07:11	2.5813	619	0.1489	17:08:13	2.5888	681	0.1414
17:06:10	2.5842	558	0.146	17:07:12	2.5829	620	0.1473	17:08:14	2.5863	682	0.1439
17:06:11	2.5839	559	0.1463	17:07:13	2.5816	621	0.1486	17:08:15	2.5869	683	0.1433
17:06:12	2.5846	560	0.1456	17:07:14	2.5814	622	0.1488	17:08:16	2.5864	684	0.1438
17:06:13	2.5844	561	0.1458	17:07:15	2.5815	623	0.1487	17:08:17	2.5826	685	0.1476
17:06:14	2.5839	562	0.1463	17:07:16	2.5819	624	0.1483	17:08:18	2.5841	686	0.1461
17:06:15	2.5845	563	0.1457	17:07:17	2.5814	625	0.1488	17:08:19	2.5696	687	0.1606
17:06:16	2.5841	564	0.1461	17:07:18	2.5823	626	0.1479	17:08:20	2.585	688	0.1452
17:06:17	2.5843	565	0.1459	17:07:19	2.5827	627	0.1475	17:08:21	2.5866	689	0.1436
17:06:18	2.5838	566	0.1464	17:07:20	2.5818	628	0.1484	17:08:22	2.5861	690	0.1441
17:06:19	2.5842	567	0.146	17:07:21	2.5823	629	0.1479	17:08:23	2.5863	691	0.1439
17:06:20	2.5842	568	0.146	17:07:22	2.5823	630	0.1479	17:08:24	2.586	692	0.1442
17:06:21	2.5842	569	0.146	17:07:23	2.5827	631	0.1475	17:08:25	2.586	693	0.1442
17:06:22	2.5843	570	0.1459	17:07:24	2.5827	632	0.1475	17:08:26	2.5861	694	0.1441
17:06:23	2.5839	571	0.1463	17:07:25	2.5819	633	0.1483	17:08:27	2.5863	695	0.1439
17:06:24	2.5844	572	0.1458	17:07:26	2.583	634	0.1472	17:08:28	2.5865	696	0.1437
17:06:25	2.5844	573	0.1458	17:07:27	2.5828	635	0.1474	17:08:29	2.5861	697	0.1441
17:06:26	2.584	574	0.1462	17:07:28	2.5826	636	0.1476	17:08:30	2.5859	698	0.1443
17:06:27	2.5847	575	0.1455	17:07:29	2.5829	637	0.1473	17:08:31	2.5865	699	0.1437
17:06:28	2.5844	576	0.1458	17:07:30	2.583	638	0.1472	17:08:32	2.5861	700	0.1441
17:06:29	2.5842	577	0.146	17:07:31	2.5833	639	0.1469	17:08:33	2.5864	701	0.1438
17:06:30	2.584	578	0.1462	17:07:32	2.5838	640	0.1464	17:08:34	2.5866	702	0.1436
17:06:31	2.584	579	0.1462	17:07:33	2.5838	641	0.1464	17:08:35	2.5868	703	0.1434
17:06:32	2.5842	580	0.146	17:07:34	2.5836	642	0.1466	17:08:36	2.5863	704	0.1439
17:06:33	2.5845	581	0.1457	17:07:35	2.5834	643	0.1468	17:08:37	2.5862	705	0.144
17:06:34	2.5849	582	0.1453	17:07:36	2.5832	644	0.147	17:08:38	2.5863	706	0.1439
17:06:35	2.5842	583	0.146	17:07:37	2.5841	645	0.1461	17:08:39	2.5862	707	0.144
17:06:36	2.5845	584	0.1457	17:07:38	2.5837	646	0.1465	17:08:40	2.5862	708	0.144
17:06:37	2.5847	585	0.1455	17:07:39	2.5835	647	0.1467	17:08:41	2.5868	709	0.1434
17:06:38	2.5842	586	0.146	17:07:40	2.584	648	0.1462	17:08:42	2.5864	710	0.1438
17:06:39	2.5844	587	0.1458	17:07:41	2.5833	649	0.1469	17:08:43	2.5862	711	0.144
17:06:40	2.5847	588	0.1455	17:07:42	2.5837	650	0.1465	17:08:44	2.5865	712	0.1437
17:06:41	2.5842	589	0.146	17:07:43	2.5836	651	0.1466	17:08:45	2.5865	713	0.1437
17:06:42	2.5847	590	0.1455	17:07:44	2.5841	652	0.1461	17:08:46	2.5862	714	0.144
17:06:43	2.5844	591	0.1458	17:07:45	2.5823	653	0.1479	17:08:47	2.5863	715	0.1439
17:06:44	2.5846	592	0.1456	17:07:46	2.5841	654	0.1461	17:08:48	2.5865	716	0.1437
17:06:45	2.5847	593	0.1455	17:07:47	2.5834	655	0.1468	17:08:49	2.5863	717	0.1439
17:06:46	2.5843	594	0.1459	17:07:48	2.5836	656	0.1466	17:08:50	2.5863	718	0.1439
17:06:47	2.5846	595	0.1456	17:07:49	2.5839	657	0.1463	17:08:51	2.5865	719	0.1437

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
17:08:52	2.5865	720	0.1437	17:09:54	2.587	782	0.1432	17:10:56	2.5867	844	0.1435
17:08:53	2.5863	721	0.1439	17:09:55	2.5872	783	0.143	17:10:57	2.5868	845	0.1434
17:08:54	2.587	722	0.1432	17:09:56	2.5867	784	0.1435	17:10:58	2.5868	846	0.1434
17:08:55	2.5867	723	0.1435	17:09:57	2.5869	785	0.1433	17:10:59	2.5863	847	0.1439
17:08:56	2.587	724	0.1432	17:09:58	2.5869	786	0.1433	17:11:00	2.5863	848	0.1439
17:08:57	2.5865	725	0.1437	17:09:59	2.5868	787	0.1434	17:11:01	2.5866	849	0.1436
17:08:58	2.5866	726	0.1436	17:10:00	2.5868	788	0.1434	17:11:02	2.5863	850	0.1439
17:08:59	2.586	727	0.1442	17:10:01	2.5869	789	0.1433	17:11:03	2.5864	851	0.1438
17:09:00	2.5869	728	0.1433	17:10:02	2.5869	790	0.1433	17:11:04	2.5862	852	0.144
17:09:01	2.5866	729	0.1436	17:10:03	2.588	791	0.1422	17:11:05	2.5855	853	0.1447
17:09:02	2.5866	730	0.1436	17:10:04	2.5864	792	0.1438	17:11:06	2.5861	854	0.1441
17:09:03	2.5862	731	0.144	17:10:05	2.5869	793	0.1433	17:11:07	2.5863	855	0.1439
17:09:04	2.5865	732	0.1437	17:10:06	2.5867	794	0.1435	17:11:08	2.5866	856	0.1436
17:09:05	2.5866	733	0.1436	17:10:07	2.587	795	0.1432	17:11:09	2.5864	857	0.1438
17:09:06	2.5869	734	0.1433	17:10:08	2.5868	796	0.1434	17:11:10	2.5864	858	0.1438
17:09:07	2.5874	735	0.1428	17:10:09	2.587	797	0.1432	17:11:11	2.5868	859	0.1434
17:09:08	2.5868	736	0.1434	17:10:10	2.5872	798	0.143	17:11:12	2.5867	860	0.1435
17:09:09	2.5867	737	0.1435	17:10:11	2.5872	799	0.143	17:11:13	2.5863	861	0.1439
17:09:10	2.5867	738	0.1435	17:10:12	2.5872	800	0.143	17:11:14	2.5869	862	0.1433
17:09:11	2.5871	739	0.1431	17:10:13	2.5868	801	0.1434	17:11:15	2.5863	863	0.1439
17:09:12	2.5868	740	0.1434	17:10:14	2.5871	802	0.1431	17:11:16	2.5871	864	0.1431
17:09:13	2.587	741	0.1432	17:10:15	2.5872	803	0.143	17:11:17	2.5858	865	0.1444
17:09:14	2.5867	742	0.1435	17:10:16	2.5869	804	0.1433	17:11:18	2.5864	866	0.1438
17:09:15	2.5866	743	0.1436	17:10:17	2.5866	805	0.1436	17:11:19	2.5864	867	0.1438
17:09:16	2.5863	744	0.1439	17:10:18	2.587	806	0.1432	17:11:20	2.5866	868	0.1436
17:09:17	2.5868	745	0.1434	17:10:19	2.587	807	0.1432	17:11:21	2.5866	869	0.1436
17:09:18	2.5869	746	0.1433	17:10:20	2.5873	808	0.1429	17:11:22	2.587	870	0.1432
17:09:19	2.5865	747	0.1437	17:10:21	2.5872	809	0.143	17:11:23	2.5872	871	0.143
17:09:20	2.5868	748	0.1434	17:10:22	2.5869	810	0.1433	17:11:24	2.5867	872	0.1435
17:09:21	2.587	749	0.1432	17:10:23	2.5864	811	0.1438	17:11:25	2.5866	873	0.1436
17:09:22	2.5868	750	0.1434	17:10:24	2.5872	812	0.143	17:11:26	2.5868	874	0.1434
17:09:23	2.587	751	0.1432	17:10:25	2.5872	813	0.143	17:11:27	2.5872	875	0.143
17:09:24	2.5867	752	0.1435	17:10:26	2.5868	814	0.1434	17:11:28	2.5869	876	0.1433
17:09:25	2.5862	753	0.144	17:10:27	2.5872	815	0.143	17:11:29	2.5869	877	0.1433
17:09:26	2.5869	754	0.1433	17:10:28	2.5869	816	0.1433	17:11:30	2.5871	878	0.1431
17:09:27	2.5869	755	0.1433	17:10:29	2.5858	817	0.1444	17:11:31	2.5871	879	0.1431
17:09:28	2.5869	756	0.1433	17:10:30	2.5877	818	0.1425	17:11:32	2.5866	880	0.1436
17:09:29	2.5866	757	0.1436	17:10:31	2.5871	819	0.1431	17:11:33	2.5868	881	0.1434
17:09:30	2.5871	758	0.1431	17:10:32	2.587	820	0.1432	17:11:34	2.5867	882	0.1435
17:09:31	2.587	759	0.1432	17:10:33	2.587	821	0.1432	17:11:35	2.5867	883	0.1435
17:09:32	2.5873	760	0.1429	17:10:34	2.5872	822	0.143	17:11:36	2.5869	884	0.1433
17:09:33	2.5875	761	0.1427	17:10:35	2.5869	823	0.1433	17:11:37	2.5859	885	0.1443
17:09:34	2.5874	762	0.1428	17:10:36	2.5867	824	0.1435	17:11:38	2.5866	886	0.1436
17:09:35	2.5872	763	0.143	17:10:37	2.5872	825	0.143	17:11:39	2.5865	887	0.1437
17:09:36	2.5875	764	0.1427	17:10:38	2.5867	826	0.1435	17:11:40	2.587	888	0.1432
17:09:37	2.5863	765	0.1439	17:10:39	2.587	827	0.1432	17:11:41	2.587	889	0.1432
17:09:38	2.5869	766	0.1433	17:10:40	2.5869	828	0.1433	17:11:42	2.5865	890	0.1437
17:09:39	2.5869	767	0.1433	17:10:41	2.5872	829	0.143	17:11:43	2.5869	891	0.1433
17:09:40	2.5866	768	0.1436	17:10:42	2.5871	830	0.1431	17:11:44	2.5869	892	0.1433
17:09:41	2.5872	769	0.143	17:10:43	2.5863	831	0.1439	17:11:45	2.5868	893	0.1434
17:09:42	2.5867	770	0.1435	17:10:44	2.5869	832	0.1433	17:11:46	2.5869	894	0.1433
17:09:43	2.5875	771	0.1427	17:10:45	2.5866	833	0.1436	17:11:47	2.5869	895	0.1433
17:09:44	2.587	772	0.1432	17:10:46	2.5867	834	0.1435	17:11:48	2.5866	896	0.1436
17:09:45	2.5869	773	0.1433	17:10:47	2.5869	835	0.1433	17:11:49	2.5868	897	0.1434
17:09:46	2.5868	774	0.1434	17:10:48	2.5859	836	0.1443	17:11:50	2.5868	898	0.1434
17:09:47	2.587	775	0.1432	17:10:49	2.5869	837	0.1433	17:11:51	2.5868	899	0.1434
17:09:48	2.5871	776	0.1431	17:10:50	2.5868	838	0.1434	17:11:52	2.587	900	0.1432
17:09:49	2.5869	777	0.1433	17:10:51	2.5869	839	0.1433	17:11:53	2.5869	901	0.1433
17:09:50	2.5865	778	0.1437	17:10:52	2.5866	840	0.1436	17:11:54	2.5874	902	0.1428
17:09:51	2.5864	779	0.1438	17:10:53	2.5868	841	0.1434	17:11:55	2.5869	903	0.1433
17:09:52	2.5869	780	0.1433	17:10:54	2.5863	842	0.1439	17:11:56	2.5866	904	0.1436
17:09:53	2.5872	781	0.143	17:10:55	2.5865	843	0.1437	17:11:57	2.5868	905	0.1434

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
17:11:58	2.5867	906	0.1435	17:13:00	2.5879	968	0.1423	17:14:02	2.5945	1030	0.1357
17:11:59	2.5872	907	0.143	17:13:01	2.5882	969	0.142	17:14:03	2.5991	1031	0.1311
17:12:00	2.5866	908	0.1436	17:13:02	2.5887	970	0.1415	17:14:04	2.6066	1032	0.1236
17:12:01	2.5871	909	0.1431	17:13:03	2.5882	971	0.142	17:14:05	2.6037	1033	0.1265
17:12:02	2.5871	910	0.1431	17:13:04	2.5886	972	0.1416	17:14:06	2.6031	1034	0.1271
17:12:03	2.5869	911	0.1433	17:13:05	2.5885	973	0.1417	17:14:07	2.5811	1035	0.1491
17:12:04	2.5866	912	0.1436	17:13:06	2.5887	974	0.1415	17:14:08	2.5854	1036	0.1448
17:12:05	2.5872	913	0.143	17:13:07	2.5896	975	0.1406	17:14:09	2.5838	1037	0.1464
17:12:06	2.5868	914	0.1434	17:13:08	2.5897	976	0.1405	17:14:10	2.5827	1038	0.1475
17:12:07	2.587	915	0.1432	17:13:09	2.5893	977	0.1409	17:14:11	2.5848	1039	0.1454
17:12:08	2.5867	916	0.1435	17:13:10	2.5895	978	0.1407	17:14:12	2.5853	1040	0.1449
17:12:09	2.5868	917	0.1434	17:13:11	2.5883	979	0.1419	17:14:13	2.5857	1041	0.1445
17:12:10	2.5873	918	0.1429	17:13:12	2.5897	980	0.1405	17:14:14	2.585	1042	0.1452
17:12:11	2.5871	919	0.1431	17:13:13	2.589	981	0.1412	17:14:15	2.5852	1043	0.145
17:12:12	2.5871	920	0.1431	17:13:14	2.5887	982	0.1415	17:14:16	2.5879	1044	0.1423
17:12:13	2.587	921	0.1432	17:13:15	2.5897	983	0.1405	17:14:17	2.5838	1045	0.1464
17:12:14	2.5871	922	0.1431	17:13:16	2.5891	984	0.1411	17:14:18	2.5824	1046	0.1478
17:12:15	2.5871	923	0.1431	17:13:17	2.5892	985	0.141	17:14:19	2.5836	1047	0.1466
17:12:16	2.5869	924	0.1433	17:13:18	2.5893	986	0.1409	17:14:20	2.5832	1048	0.147
17:12:17	2.5873	925	0.1429	17:13:19	2.5889	987	0.1413	17:14:21	2.5838	1049	0.1464
17:12:18	2.587	926	0.1432	17:13:20	2.5886	988	0.1416	17:14:22	2.5836	1050	0.1466
17:12:19	2.587	927	0.1432	17:13:21	2.5893	989	0.1409	17:14:23	2.5841	1051	0.1461
17:12:20	2.587	928	0.1432	17:13:22	2.5891	990	0.1411	17:14:24	2.5838	1052	0.1464
17:12:21	2.5869	929	0.1433	17:13:23	2.5894	991	0.1408	17:14:25	2.5841	1053	0.1461
17:12:22	2.5876	930	0.1426	17:13:24	2.589	992	0.1412	17:14:26	2.5838	1054	0.1464
17:12:23	2.5875	931	0.1427	17:13:25	2.5893	993	0.1409	17:14:27	2.5843	1055	0.1459
17:12:24	2.5869	932	0.1433	17:13:26	2.5891	994	0.1411	17:14:28	2.5845	1056	0.1457
17:12:25	2.5869	933	0.1433	17:13:27	2.5894	995	0.1408	17:14:29	2.5845	1057	0.1457
17:12:26	2.5876	934	0.1426	17:13:28	2.5894	996	0.1408	17:14:30	2.5843	1058	0.1459
17:12:27	2.587	935	0.1432	17:13:29	2.5897	997	0.1405	17:14:31	2.5841	1059	0.1461
17:12:28	2.587	936	0.1432	17:13:30	2.5891	998	0.1411	17:14:32	2.5846	1060	0.1456
17:12:29	2.5874	937	0.1428	17:13:31	2.5897	999	0.1405	17:14:33	2.5839	1061	0.1463
17:12:30	2.5866	938	0.1436	17:13:32	2.5896	1000	0.1406	17:14:34	2.5847	1062	0.1455
17:12:31	2.5873	939	0.1429	17:13:33	2.5896	1001	0.1406	17:14:35	2.5847	1063	0.1455
17:12:32	2.5872	940	0.143	17:13:34	2.5904	1002	0.1398	17:14:36	2.5848	1064	0.1454
17:12:33	2.5866	941	0.1436	17:13:35	2.5895	1003	0.1407	17:14:37	2.5847	1065	0.1455
17:12:34	2.5868	942	0.1434	17:13:36	2.5898	1004	0.1404	17:14:38	2.5848	1066	0.1454
17:12:35	2.5871	943	0.1431	17:13:37	2.5901	1005	0.1401	17:14:39	2.585	1067	0.1452
17:12:36	2.587	944	0.1432	17:13:38	2.5895	1006	0.1407	17:14:40	2.5846	1068	0.1456
17:12:37	2.5869	945	0.1433	17:13:39	2.5894	1007	0.1408	17:14:41	2.585	1069	0.1452
17:12:38	2.5871	946	0.1431	17:13:40	2.5894	1008	0.1408	17:14:42	2.5854	1070	0.1448
17:12:39	2.5868	947	0.1434	17:13:41	2.5896	1009	0.1406	17:14:43	2.5849	1071	0.1453
17:12:40	2.5868	948	0.1434	17:13:42	2.5892	1010	0.141	17:14:44	2.5851	1072	0.1451
17:12:41	2.5872	949	0.143	17:13:43	2.5896	1011	0.1406	17:14:45	2.5854	1073	0.1448
17:12:42	2.5868	950	0.1434	17:13:44	2.5897	1012	0.1405	17:14:46	2.5848	1074	0.1454
17:12:43	2.5875	951	0.1427	17:13:45	2.5893	1013	0.1409	17:14:47	2.5854	1075	0.1448
17:12:44	2.5875	952	0.1427	17:13:46	2.5899	1014	0.1403	17:14:48	2.5853	1076	0.1449
17:12:45	2.5883	953	0.1419	17:13:47	2.5898	1015	0.1404	17:14:49	2.5854	1077	0.1448
17:12:46	2.5889	954	0.1413	17:13:48	2.5894	1016	0.1408	17:14:50	2.5854	1078	0.1448
17:12:47	2.5877	955	0.1425	17:13:49	2.5895	1017	0.1407	17:14:51	2.5853	1079	0.1449
17:12:48	2.5873	956	0.1429	17:13:50	2.5892	1018	0.141	17:14:52	2.5852	1080	0.145
17:12:49	2.5882	957	0.142	17:13:51	2.5892	1019	0.141	17:14:53	2.5852	1081	0.145
17:12:50	2.5882	958	0.142	17:13:52	2.5892	1020	0.141	17:14:54	2.5854	1082	0.1448
17:12:51	2.5858	959	0.1444	17:13:53	2.5896	1021	0.1406	17:14:55	2.5853	1083	0.1449
17:12:52	2.5876	960	0.1426	17:13:54	2.5893	1022	0.1409	17:14:56	2.5854	1084	0.1448
17:12:53	2.5881	961	0.1421	17:13:55	2.5895	1023	0.1407	17:14:57	2.5854	1085	0.1448
17:12:54	2.5876	962	0.1426	17:13:56	2.5896	1024	0.1406	17:14:58	2.5853	1086	0.1449
17:12:55	2.5873	963	0.1429	17:13:57	2.5893	1025	0.1409	17:14:59	2.5853	1087	0.1449
17:12:56	2.5877	964	0.1425	17:13:58	2.5894	1026	0.1408	17:15:00	2.5857	1088	0.1445
17:12:57	2.5882	965	0.142	17:13:59	2.5897	1027	0.1405	17:15:01	2.5857	1089	0.1445
17:12:58	2.5877	966	0.1425	17:14:00	2.5896	1028	0.1406	17:15:02	2.5858	1090	0.1444
17:12:59	2.5885	967	0.1417	17:14:01	2.5918	1029	0.1384	17:15:03	2.5859	1091	0.1443

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
17:15:04	2.5855	1092	0.1447								
17:15:05	2.5858	1093	0.1444								
17:15:06	2.5861	1094	0.1441								
17:15:07	2.5857	1095	0.1445								
17:15:08	2.5856	1096	0.1446								
17:15:09	2.7252	1097	0.005								
17:15:10	2.7302	1098	0								



EBA Engineering Consultants
Calcite Buisness Centre
Unit 6, 151 Industrial Road
Whitehorse, Yukon Y1A 2V3

Slug Test Analysis Report

Number: W23101317

Project: 2010 Monitoring Program Champagne

Client: Yukon Government

Location Champagne

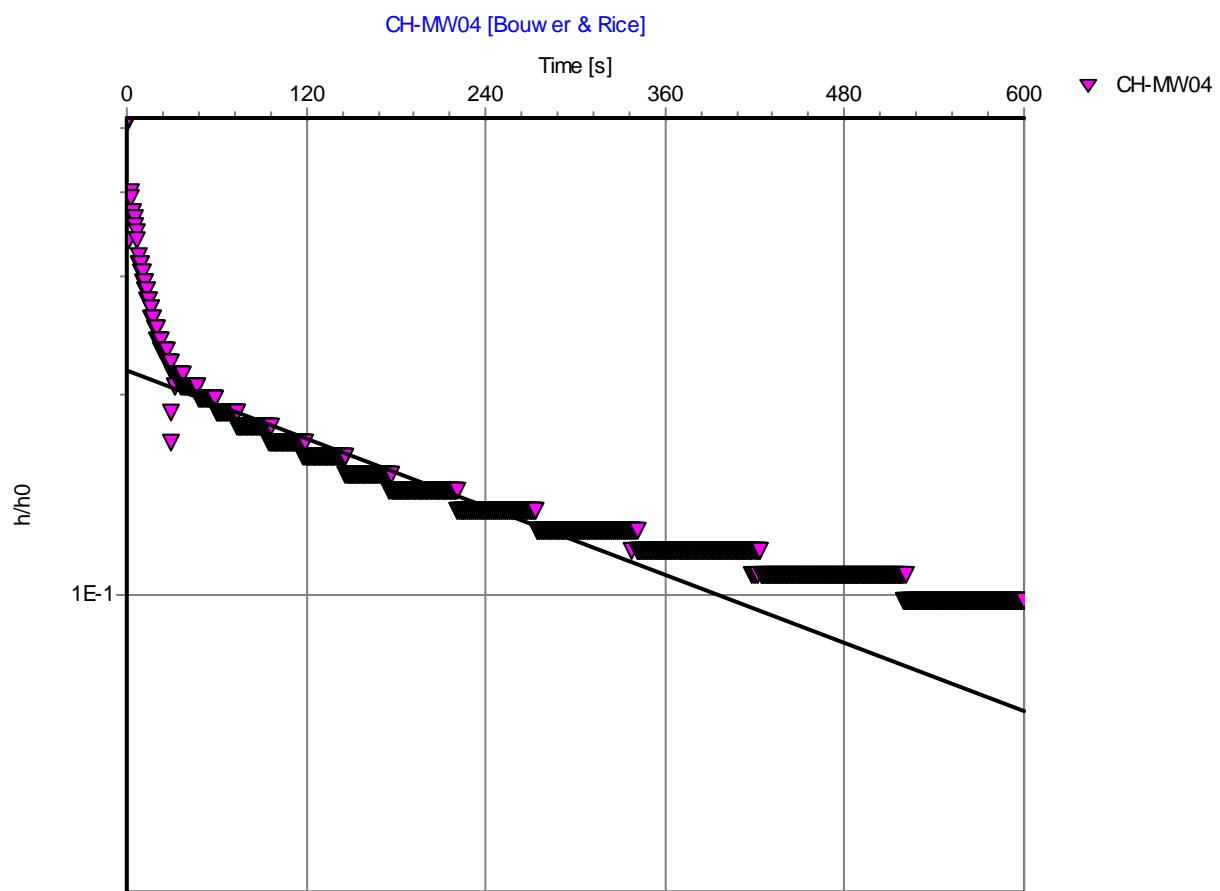
Test performed by: ER

Evaluated by: BCW

Test date: 12/15/2010

Reviewed by: SK

Analysis Method: Bouwer & Rice



Conductivity: 4.42E-7 [m/s]

Comments:



EBA Engineering Consultants
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Slug Test Analysis Report

Number: W23101317

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Location Champagne

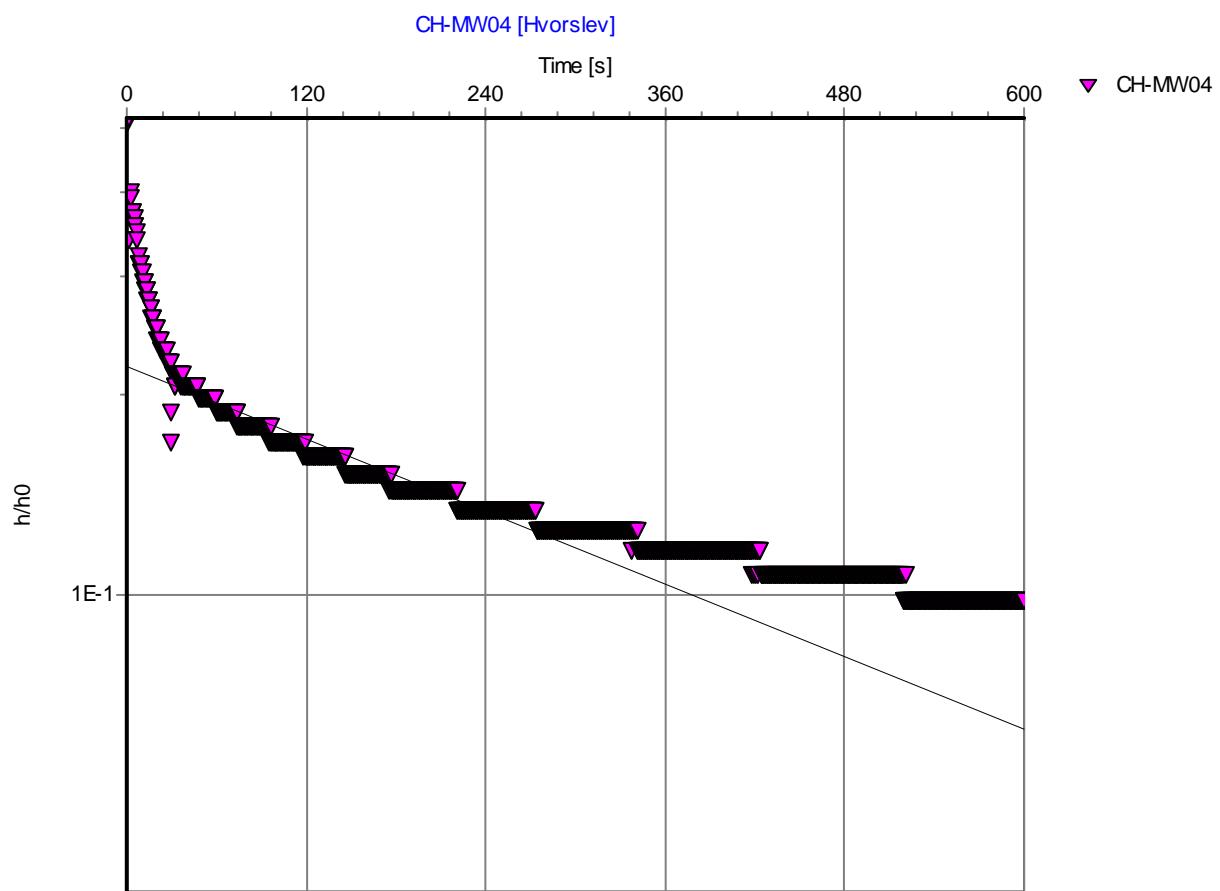
Test performed by: ER

Evaluated by: BCW

Test date: 12/15/2010

Reviewed by: SK

Analysis Method: Hvorslev



Conductivity: 6.10E-7 [m/s]

Comments:

2010 Monitoring Well Program

Serial Number 1023050

Project ID W23101317

Location**Champagne CH-MW04**

Channel 1

Identification

Static (m btoc)

3.71

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:30:18	2.59	0	1.12	9:30:45	3.45	26.5	0.26	9:31:12	3.49	53.5	0.22
9:30:18	3.71	0.5	0.00	9:30:45	3.46	27	0.25	9:31:12	3.49	54	0.22
9:30:19	3.14	0.5	0.57	9:30:46	3.46	27.5	0.25	9:31:13	3.49	54.5	0.22
9:30:19	3.13	1	0.58	9:30:46	3.46	28	0.25	9:31:13	3.49	55	0.22
9:30:20	3.33	1.5	0.38	9:30:47	3.46	28.5	0.25	9:31:14	3.49	55.5	0.22
9:30:20	3.29	2	0.42	9:30:47	3.46	29	0.25	9:31:14	3.49	56	0.22
9:30:21	3.26	2.5	0.45	9:30:48	3.52	29.5	0.19	9:31:15	3.49	56.5	0.22
9:30:21	3.27	3	0.44	9:30:48	3.50	30	0.21	9:31:15	3.49	57	0.22
9:30:22	3.29	3.5	0.42	9:30:49	3.47	30.5	0.24	9:31:16	3.49	57.5	0.22
9:30:22	3.29	4	0.42	9:30:49	3.47	31	0.24	9:31:16	3.49	58	0.22
9:30:23	3.30	4.5	0.41	9:30:50	3.48	31.5	0.23	9:31:17	3.49	58.5	0.22
9:30:23	3.30	5	0.41	9:30:50	3.48	32	0.23	9:31:17	3.49	59	0.22
9:30:24	3.31	5.5	0.40	9:30:51	3.47	32.5	0.24	9:31:18	3.49	59.5	0.22
9:30:24	3.31	6	0.40	9:30:51	3.47	33	0.24	9:31:18	3.50	60	0.21
9:30:25	3.32	6.5	0.39	9:30:52	3.47	33.5	0.24	9:31:19	3.50	60.5	0.21
9:30:25	3.33	7	0.38	9:30:52	3.47	34	0.24	9:31:19	3.50	61	0.21
9:30:26	3.35	7.5	0.36	9:30:53	3.47	34.5	0.24	9:31:20	3.50	61.5	0.21
9:30:26	3.36	8	0.35	9:30:53	3.47	35	0.24	9:31:20	3.50	62	0.21
9:30:27	3.36	8.5	0.35	9:30:54	3.47	35.5	0.24	9:31:21	3.50	62.5	0.21
9:30:27	3.36	9	0.35	9:30:54	3.47	36	0.24	9:31:21	3.50	63	0.21
9:30:28	3.36	9.5	0.35	9:30:55	3.48	36.5	0.23	9:31:22	3.50	63.5	0.21
9:30:28	3.37	10	0.34	9:30:55	3.48	37	0.23	9:31:22	3.50	64	0.21
9:30:29	3.37	10.5	0.34	9:30:56	3.47	37.5	0.24	9:31:23	3.50	64.5	0.21
9:30:29	3.38	11	0.33	9:30:56	3.48	38	0.23	9:31:23	3.50	65	0.21
9:30:30	3.38	11.5	0.33	9:30:57	3.48	38.5	0.23	9:31:24	3.50	65.5	0.21
9:30:30	3.38	12	0.33	9:30:57	3.48	39	0.23	9:31:24	3.50	66	0.21
9:30:31	3.39	12.5	0.32	9:30:58	3.48	39.5	0.23	9:31:25	3.50	66.5	0.21
9:30:31	3.39	13	0.32	9:30:58	3.48	40	0.23	9:31:25	3.50	67	0.21
9:30:32	3.39	13.5	0.32	9:30:59	3.48	40.5	0.23	9:31:26	3.50	67.5	0.21
9:30:32	3.40	14	0.31	9:30:59	3.48	41	0.23	9:31:26	3.50	68	0.21
9:30:33	3.40	14.5	0.31	9:31:00	3.48	41.5	0.23	9:31:27	3.50	68.5	0.21
9:30:33	3.40	15	0.31	9:31:00	3.48	42	0.23	9:31:27	3.50	69	0.21
9:30:34	3.41	15.5	0.30	9:31:01	3.48	42.5	0.23	9:31:28	3.50	69.5	0.21
9:30:34	3.41	16	0.30	9:31:01	3.48	43	0.23	9:31:28	3.50	70	0.21
9:30:35	3.42	16.5	0.29	9:31:02	3.48	43.5	0.23	9:31:29	3.50	70.5	0.21
9:30:35	3.42	17	0.29	9:31:02	3.48	44	0.23	9:31:29	3.50	71	0.21
9:30:36	3.42	17.5	0.29	9:31:03	3.48	44.5	0.23	9:31:30	3.50	71.5	0.21
9:30:36	3.42	18	0.29	9:31:03	3.48	45	0.23	9:31:30	3.50	72	0.21
9:30:37	3.43	18.5	0.28	9:31:04	3.48	45.5	0.23	9:31:31	3.50	72.5	0.21
9:30:37	3.43	19	0.28	9:31:04	3.48	46	0.23	9:31:31	3.50	73	0.21
9:30:38	3.43	19.5	0.28	9:31:05	3.48	46.5	0.23	9:31:32	3.50	73.5	0.21
9:30:38	3.43	20	0.28	9:31:05	3.48	47	0.23	9:31:32	3.51	74	0.20
9:30:39	3.44	20.5	0.27	9:31:06	3.48	47.5	0.23	9:31:33	3.51	74.5	0.20
9:30:39	3.44	21	0.27	9:31:06	3.49	48	0.22	9:31:33	3.51	75	0.20
9:30:40	3.44	21.5	0.27	9:31:07	3.49	48.5	0.22	9:31:34	3.51	75.5	0.20
9:30:40	3.44	22	0.27	9:31:07	3.49	49	0.22	9:31:34	3.51	76	0.20
9:30:41	3.44	22.5	0.27	9:31:08	3.49	49.5	0.22	9:31:35	3.51	76.5	0.20
9:30:41	3.45	23	0.26	9:31:08	3.49	50	0.22	9:31:35	3.51	77	0.20
9:30:42	3.45	23.5	0.26	9:31:09	3.49	50.5	0.22	9:31:36	3.51	77.5	0.20
9:30:42	3.45	24	0.26	9:31:09	3.49	51	0.22	9:31:36	3.51	78	0.20
9:30:43	3.45	24.5	0.26	9:31:10	3.49	51.5	0.22	9:31:37	3.51	78.5	0.20
9:30:43	3.45	25	0.26	9:31:10	3.49	52	0.22	9:31:37	3.51	79	0.20
9:30:44	3.45	25.5	0.26	9:31:11	3.49	52.5	0.22	9:31:38	3.51	79.5	0.20
9:30:44	3.45	26	0.26	9:31:11	3.49	53	0.22	9:31:38	3.51	80	0.20

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:31:39	3.51	80.5	0.20	9:32:10	3.52	112	0.19	9:32:42	3.53	143.5	0.18
9:31:39	3.51	81	0.20	9:32:11	3.52	112.5	0.19	9:32:42	3.53	144	0.18
9:31:40	3.51	81.5	0.20	9:32:11	3.52	113	0.19	9:32:43	3.53	144.5	0.18
9:31:40	3.51	82	0.20	9:32:12	3.52	113.5	0.19	9:32:43	3.53	145	0.18
9:31:41	3.51	82.5	0.20	9:32:12	3.52	114	0.19	9:32:44	3.53	145.5	0.18
9:31:41	3.51	83	0.20	9:32:13	3.52	114.5	0.19	9:32:44	3.53	146	0.18
9:31:42	3.51	83.5	0.20	9:32:13	3.52	115	0.19	9:32:45	3.54	146.5	0.17
9:31:42	3.51	84	0.20	9:32:14	3.52	115.5	0.19	9:32:45	3.54	147	0.17
9:31:43	3.51	84.5	0.20	9:32:14	3.52	116	0.19	9:32:46	3.54	147.5	0.17
9:31:43	3.51	85	0.20	9:32:15	3.52	116.5	0.19	9:32:46	3.54	148	0.17
9:31:44	3.51	85.5	0.20	9:32:15	3.52	117	0.19	9:32:47	3.54	148.5	0.17
9:31:44	3.51	86	0.20	9:32:16	3.52	117.5	0.19	9:32:47	3.54	149	0.17
9:31:45	3.51	86.5	0.20	9:32:16	3.52	118	0.19	9:32:48	3.54	149.5	0.17
9:31:45	3.51	87	0.20	9:32:17	3.53	118.5	0.18	9:32:48	3.54	150	0.17
9:31:46	3.51	87.5	0.20	9:32:17	3.52	119	0.19	9:32:49	3.54	150.5	0.17
9:31:46	3.51	88	0.20	9:32:18	3.53	119.5	0.18	9:32:49	3.54	151	0.17
9:31:47	3.51	88.5	0.20	9:32:18	3.53	120	0.18	9:32:50	3.54	151.5	0.17
9:31:47	3.51	89	0.20	9:32:19	3.53	120.5	0.18	9:32:50	3.54	152	0.17
9:31:48	3.51	89.5	0.20	9:32:19	3.53	121	0.18	9:32:51	3.54	152.5	0.17
9:31:48	3.51	90	0.20	9:32:20	3.53	121.5	0.18	9:32:51	3.54	153	0.17
9:31:49	3.51	90.5	0.20	9:32:20	3.53	122	0.18	9:32:52	3.54	153.5	0.17
9:31:49	3.51	91	0.20	9:32:21	3.53	122.5	0.18	9:32:52	3.54	154	0.17
9:31:50	3.51	91.5	0.20	9:32:21	3.53	123	0.18	9:32:53	3.54	154.5	0.17
9:31:50	3.51	92	0.20	9:32:22	3.53	123.5	0.18	9:32:53	3.54	155	0.17
9:31:51	3.51	92.5	0.20	9:32:22	3.53	124	0.18	9:32:54	3.54	155.5	0.17
9:31:51	3.51	93	0.20	9:32:23	3.53	124.5	0.18	9:32:54	3.54	156	0.17
9:31:52	3.51	93.5	0.20	9:32:23	3.53	125	0.18	9:32:55	3.54	156.5	0.17
9:31:52	3.51	94	0.20	9:32:24	3.53	125.5	0.18	9:32:55	3.54	157	0.17
9:31:53	3.51	94.5	0.20	9:32:24	3.53	126	0.18	9:32:56	3.54	157.5	0.17
9:31:53	3.51	95	0.20	9:32:25	3.53	126.5	0.18	9:32:56	3.54	158	0.17
9:31:54	3.52	95.5	0.19	9:32:25	3.53	127	0.18	9:32:57	3.54	158.5	0.17
9:31:54	3.51	96	0.20	9:32:26	3.53	127.5	0.18	9:32:57	3.54	159	0.17
9:31:55	3.52	96.5	0.19	9:32:26	3.53	128	0.18	9:32:58	3.54	159.5	0.17
9:31:55	3.52	97	0.19	9:32:27	3.53	128.5	0.18	9:32:58	3.54	160	0.17
9:31:56	3.52	97.5	0.19	9:32:27	3.53	129	0.18	9:32:59	3.54	160.5	0.17
9:31:56	3.52	98	0.19	9:32:28	3.53	129.5	0.18	9:32:59	3.54	161	0.17
9:31:57	3.52	98.5	0.19	9:32:28	3.53	130	0.18	9:33:00	3.54	161.5	0.17
9:31:57	3.52	99	0.19	9:32:29	3.53	130.5	0.18	9:33:00	3.54	162	0.17
9:31:58	3.52	99.5	0.19	9:32:29	3.53	131	0.18	9:33:01	3.54	162.5	0.17
9:31:58	3.52	100	0.19	9:32:30	3.53	131.5	0.18	9:33:01	3.54	163	0.17
9:31:59	3.52	100.5	0.19	9:32:30	3.53	132	0.18	9:33:02	3.54	163.5	0.17
9:31:59	3.52	101	0.19	9:32:31	3.53	132.5	0.18	9:33:02	3.54	164	0.17
9:32:00	3.52	101.5	0.19	9:32:31	3.53	133	0.18	9:33:03	3.54	164.5	0.17
9:32:00	3.52	102	0.19	9:32:32	3.53	133.5	0.18	9:33:03	3.54	165	0.17
9:32:01	3.52	102.5	0.19	9:32:32	3.53	134	0.18	9:33:04	3.54	165.5	0.17
9:32:01	3.52	103	0.19	9:32:33	3.53	134.5	0.18	9:33:04	3.54	166	0.17
9:32:02	3.52	103.5	0.19	9:32:33	3.53	135	0.18	9:33:05	3.54	166.5	0.17
9:32:02	3.52	104	0.19	9:32:34	3.53	135.5	0.18	9:33:05	3.54	167	0.17
9:32:03	3.52	104.5	0.19	9:32:34	3.53	136	0.18	9:33:06	3.54	167.5	0.17
9:32:03	3.52	105	0.19	9:32:35	3.53	136.5	0.18	9:33:06	3.54	168	0.17
9:32:04	3.52	105.5	0.19	9:32:35	3.53	137	0.18	9:33:07	3.54	168.5	0.17
9:32:04	3.52	106	0.19	9:32:36	3.53	137.5	0.18	9:33:07	3.54	169	0.17
9:32:05	3.52	106.5	0.19	9:32:36	3.53	138	0.18	9:33:08	3.54	169.5	0.17
9:32:05	3.52	107	0.19	9:32:37	3.53	138.5	0.18	9:33:08	3.54	170	0.17
9:32:06	3.52	107.5	0.19	9:32:37	3.53	139	0.18	9:33:09	3.54	170.5	0.17
9:32:06	3.52	108	0.19	9:32:38	3.53	139.5	0.18	9:33:09	3.54	171	0.17
9:32:07	3.52	108.5	0.19	9:32:38	3.53	140	0.18	9:33:10	3.54	171.5	0.17
9:32:07	3.52	109	0.19	9:32:39	3.53	140.5	0.18	9:33:10	3.54	172	0.17
9:32:08	3.52	109.5	0.19	9:32:39	3.53	141	0.18	9:33:11	3.54	172.5	0.17
9:32:08	3.52	110	0.19	9:32:40	3.53	141.5	0.18	9:33:11	3.54	173	0.17
9:32:09	3.52	110.5	0.19	9:32:40	3.53	142	0.18	9:33:12	3.54	173.5	0.17
9:32:09	3.52	111	0.19	9:32:41	3.53	142.5	0.18	9:33:12	3.54	174	0.17
9:32:10	3.52	111.5	0.19	9:32:41	3.53	143	0.18	9:33:13	3.54	174.5	0.17

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:33:13	3.54	175	0.17	9:33:45	3.55	206.5	0.16	9:34:16	3.56	238	0.15
9:33:14	3.54	175.5	0.17	9:33:45	3.55	207	0.16	9:34:17	3.56	238.5	0.15
9:33:14	3.55	176	0.16	9:33:46	3.55	207.5	0.16	9:34:17	3.56	239	0.15
9:33:15	3.55	176.5	0.16	9:33:46	3.55	208	0.16	9:34:18	3.56	239.5	0.15
9:33:15	3.54	177	0.17	9:33:47	3.55	208.5	0.16	9:34:18	3.56	240	0.15
9:33:16	3.55	177.5	0.16	9:33:47	3.55	209	0.16	9:34:19	3.56	240.5	0.15
9:33:16	3.55	178	0.16	9:33:48	3.55	209.5	0.16	9:34:19	3.56	241	0.15
9:33:17	3.55	178.5	0.16	9:33:48	3.55	210	0.16	9:34:20	3.56	241.5	0.15
9:33:17	3.55	179	0.16	9:33:49	3.55	210.5	0.16	9:34:20	3.56	242	0.15
9:33:18	3.55	179.5	0.16	9:33:49	3.55	211	0.16	9:34:21	3.56	242.5	0.15
9:33:18	3.55	180	0.16	9:33:50	3.55	211.5	0.16	9:34:21	3.56	243	0.15
9:33:19	3.55	180.5	0.16	9:33:50	3.55	212	0.16	9:34:22	3.56	243.5	0.15
9:33:19	3.55	181	0.16	9:33:51	3.55	212.5	0.16	9:34:22	3.56	244	0.15
9:33:20	3.55	181.5	0.16	9:33:51	3.55	213	0.16	9:34:23	3.56	244.5	0.15
9:33:20	3.55	182	0.16	9:33:52	3.55	213.5	0.16	9:34:23	3.56	245	0.15
9:33:21	3.55	182.5	0.16	9:33:52	3.55	214	0.16	9:34:24	3.56	245.5	0.15
9:33:21	3.55	183	0.16	9:33:53	3.55	214.5	0.16	9:34:24	3.56	246	0.15
9:33:22	3.55	183.5	0.16	9:33:53	3.55	215	0.16	9:34:25	3.56	246.5	0.15
9:33:22	3.55	184	0.16	9:33:54	3.55	215.5	0.16	9:34:25	3.56	247	0.15
9:33:23	3.55	184.5	0.16	9:33:54	3.55	216	0.16	9:34:26	3.56	247.5	0.15
9:33:23	3.55	185	0.16	9:33:55	3.55	216.5	0.16	9:34:26	3.56	248	0.15
9:33:24	3.55	185.5	0.16	9:33:55	3.55	217	0.16	9:34:27	3.56	248.5	0.15
9:33:24	3.55	186	0.16	9:33:56	3.55	217.5	0.16	9:34:27	3.56	249	0.15
9:33:25	3.55	186.5	0.16	9:33:56	3.55	218	0.16	9:34:28	3.56	249.5	0.15
9:33:25	3.55	187	0.16	9:33:57	3.55	218.5	0.16	9:34:28	3.56	250	0.15
9:33:26	3.55	187.5	0.16	9:33:57	3.55	219	0.16	9:34:29	3.56	250.5	0.15
9:33:26	3.55	188	0.16	9:33:58	3.55	219.5	0.16	9:34:29	3.56	251	0.15
9:33:27	3.55	188.5	0.16	9:33:58	3.55	220	0.16	9:34:30	3.56	251.5	0.15
9:33:27	3.55	189	0.16	9:33:59	3.56	220.5	0.15	9:34:30	3.56	252	0.15
9:33:28	3.55	189.5	0.16	9:33:59	3.56	221	0.15	9:34:31	3.56	252.5	0.15
9:33:28	3.55	190	0.16	9:34:00	3.56	221.5	0.16	9:34:31	3.56	253	0.15
9:33:29	3.55	190.5	0.16	9:34:00	3.56	222	0.15	9:34:32	3.56	253.5	0.15
9:33:29	3.55	191	0.16	9:34:01	3.56	222.5	0.15	9:34:32	3.56	254	0.15
9:33:30	3.55	191.5	0.16	9:34:01	3.56	223	0.15	9:34:33	3.56	254.5	0.15
9:33:30	3.55	192	0.16	9:34:02	3.56	223.5	0.15	9:34:33	3.56	255	0.15
9:33:31	3.55	192.5	0.16	9:34:02	3.56	224	0.15	9:34:34	3.56	255.5	0.15
9:33:31	3.55	193	0.16	9:34:03	3.56	224.5	0.15	9:34:34	3.56	256	0.15
9:33:32	3.55	193.5	0.16	9:34:03	3.56	225	0.15	9:34:35	3.56	256.5	0.15
9:33:32	3.55	194	0.16	9:34:04	3.56	225.5	0.15	9:34:35	3.56	257	0.15
9:33:33	3.55	194.5	0.16	9:34:04	3.56	226	0.15	9:34:36	3.56	257.5	0.15
9:33:33	3.55	195	0.16	9:34:05	3.56	226.5	0.15	9:34:36	3.56	258	0.15
9:33:34	3.55	195.5	0.16	9:34:05	3.56	227	0.15	9:34:37	3.56	258.5	0.15
9:33:34	3.55	196	0.16	9:34:06	3.56	227.5	0.15	9:34:37	3.56	259	0.15
9:33:35	3.55	196.5	0.16	9:34:06	3.56	228	0.15	9:34:38	3.56	259.5	0.15
9:33:35	3.55	197	0.16	9:34:07	3.56	228.5	0.15	9:34:38	3.56	260	0.15
9:33:36	3.55	197.5	0.16	9:34:07	3.56	229	0.15	9:34:39	3.56	260.5	0.15
9:33:36	3.55	198	0.16	9:34:08	3.56	229.5	0.15	9:34:39	3.56	261	0.15
9:33:37	3.55	198.5	0.16	9:34:08	3.56	230	0.15	9:34:40	3.56	261.5	0.15
9:33:37	3.55	199	0.16	9:34:09	3.56	230.5	0.15	9:34:40	3.56	262	0.15
9:33:38	3.55	199.5	0.16	9:34:09	3.56	231	0.15	9:34:41	3.56	262.5	0.15
9:33:38	3.55	200	0.16	9:34:10	3.56	231.5	0.15	9:34:41	3.56	263	0.15
9:33:39	3.55	200.5	0.16	9:34:10	3.56	232	0.15	9:34:42	3.56	263.5	0.15
9:33:39	3.55	201	0.16	9:34:11	3.56	232.5	0.15	9:34:42	3.56	264	0.15
9:33:40	3.55	201.5	0.16	9:34:11	3.56	233	0.15	9:34:43	3.56	264.5	0.15
9:33:40	3.55	202	0.16	9:34:12	3.56	233.5	0.15	9:34:43	3.56	265	0.15
9:33:41	3.55	202.5	0.16	9:34:12	3.56	234	0.15	9:34:44	3.56	265.5	0.15
9:33:41	3.55	203	0.16	9:34:13	3.56	234.5	0.15	9:34:44	3.56	266	0.15
9:33:42	3.55	203.5	0.16	9:34:13	3.56	235	0.15	9:34:45	3.56	266.5	0.15
9:33:42	3.55	204	0.16	9:34:14	3.56	235.5	0.15	9:34:45	3.56	267	0.15
9:33:43	3.55	204.5	0.16	9:34:14	3.56	236	0.15	9:34:46	3.56	267.5	0.15
9:33:43	3.55	205	0.16	9:34:15	3.56	236.5	0.15	9:34:46	3.56	268	0.15
9:33:44	3.55	205.5	0.16	9:34:15	3.56	237	0.15	9:34:47	3.56	268.5	0.15
9:33:44	3.55	206	0.16	9:34:16	3.56	237.5	0.15	9:34:47	3.56	269	0.15

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:34:48	3.56	269.5	0.15	9:35:19	3.57	301	0.14	9:35:51	3.57	332.5	0.14
9:34:48	3.56	270	0.15	9:35:20	3.57	301.5	0.14	9:35:51	3.57	333	0.14
9:34:49	3.56	270.5	0.15	9:35:20	3.57	302	0.14	9:35:52	3.57	333.5	0.14
9:34:49	3.56	271	0.15	9:35:21	3.57	302.5	0.14	9:35:52	3.57	334	0.14
9:34:50	3.56	271.5	0.15	9:35:21	3.57	303	0.14	9:35:53	3.57	334.5	0.14
9:34:50	3.56	272	0.15	9:35:22	3.57	303.5	0.14	9:35:53	3.57	335	0.14
9:34:51	3.56	272.5	0.15	9:35:22	3.57	304	0.14	9:35:54	3.57	335.5	0.14
9:34:51	3.56	273	0.15	9:35:23	3.57	304.5	0.14	9:35:54	3.57	336	0.14
9:34:52	3.56	273.5	0.15	9:35:23	3.57	305	0.14	9:35:55	3.57	336.5	0.14
9:34:52	3.57	274	0.14	9:35:24	3.57	305.5	0.14	9:35:55	3.58	337	0.13
9:34:53	3.57	274.5	0.14	9:35:24	3.57	306	0.14	9:35:56	3.57	337.5	0.14
9:34:53	3.57	275	0.14	9:35:25	3.57	306.5	0.14	9:35:56	3.57	338	0.14
9:34:54	3.57	275.5	0.14	9:35:25	3.57	307	0.14	9:35:57	3.57	338.5	0.14
9:34:54	3.57	276	0.14	9:35:26	3.57	307.5	0.14	9:35:57	3.57	339	0.14
9:34:55	3.57	276.5	0.14	9:35:26	3.57	308	0.14	9:35:58	3.57	339.5	0.14
9:34:55	3.57	277	0.14	9:35:27	3.57	308.5	0.14	9:35:58	3.57	340	0.14
9:34:56	3.57	277.5	0.14	9:35:27	3.57	309	0.14	9:35:59	3.57	340.5	0.14
9:34:56	3.57	278	0.14	9:35:28	3.57	309.5	0.14	9:35:59	3.57	341	0.14
9:34:57	3.57	278.5	0.14	9:35:28	3.57	310	0.14	9:36:00	3.58	341.5	0.13
9:34:57	3.57	279	0.14	9:35:29	3.57	310.5	0.14	9:36:00	3.58	342	0.13
9:34:58	3.57	279.5	0.14	9:35:29	3.57	311	0.14	9:36:01	3.58	342.5	0.13
9:34:58	3.57	280	0.14	9:35:30	3.57	311.5	0.14	9:36:01	3.58	343	0.13
9:34:59	3.57	280.5	0.14	9:35:30	3.57	312	0.14	9:36:02	3.58	343.5	0.13
9:34:59	3.57	281	0.14	9:35:31	3.57	312.5	0.14	9:36:02	3.58	344	0.13
9:35:00	3.57	281.5	0.14	9:35:31	3.57	313	0.14	9:36:03	3.58	344.5	0.13
9:35:00	3.57	282	0.14	9:35:32	3.57	313.5	0.14	9:36:03	3.58	345	0.13
9:35:01	3.57	282.5	0.14	9:35:32	3.57	314	0.14	9:36:04	3.58	345.5	0.13
9:35:01	3.57	283	0.14	9:35:33	3.57	314.5	0.14	9:36:04	3.58	346	0.13
9:35:02	3.57	283.5	0.14	9:35:33	3.57	315	0.14	9:36:05	3.58	346.5	0.13
9:35:02	3.57	284	0.14	9:35:34	3.57	315.5	0.14	9:36:05	3.58	347	0.13
9:35:03	3.57	284.5	0.14	9:35:34	3.57	316	0.14	9:36:06	3.58	347.5	0.13
9:35:03	3.57	285	0.14	9:35:35	3.57	316.5	0.14	9:36:06	3.58	348	0.13
9:35:04	3.57	285.5	0.14	9:35:35	3.57	317	0.14	9:36:07	3.58	348.5	0.13
9:35:04	3.57	286	0.14	9:35:36	3.57	317.5	0.14	9:36:07	3.58	349	0.13
9:35:05	3.57	286.5	0.14	9:35:36	3.57	318	0.14	9:36:08	3.58	349.5	0.13
9:35:05	3.57	287	0.14	9:35:37	3.57	318.5	0.14	9:36:08	3.58	350	0.13
9:35:06	3.57	287.5	0.14	9:35:37	3.57	319	0.14	9:36:09	3.58	350.5	0.13
9:35:06	3.57	288	0.14	9:35:38	3.57	319.5	0.14	9:36:09	3.58	351	0.13
9:35:07	3.57	288.5	0.14	9:35:38	3.57	320	0.14	9:36:10	3.58	351.5	0.13
9:35:07	3.57	289	0.14	9:35:39	3.57	320.5	0.14	9:36:10	3.58	352	0.13
9:35:08	3.57	289.5	0.14	9:35:39	3.57	321	0.14	9:36:11	3.58	352.5	0.13
9:35:08	3.57	290	0.14	9:35:40	3.57	321.5	0.14	9:36:11	3.58	353	0.13
9:35:09	3.57	290.5	0.14	9:35:40	3.57	322	0.14	9:36:12	3.58	353.5	0.13
9:35:09	3.57	291	0.14	9:35:41	3.57	322.5	0.14	9:36:12	3.58	354	0.13
9:35:10	3.57	291.5	0.14	9:35:41	3.57	323	0.14	9:36:13	3.58	354.5	0.13
9:35:10	3.57	292	0.14	9:35:42	3.57	323.5	0.14	9:36:13	3.58	355	0.13
9:35:11	3.57	292.5	0.14	9:35:42	3.57	324	0.14	9:36:14	3.58	355.5	0.13
9:35:11	3.57	293	0.14	9:35:43	3.57	324.5	0.14	9:36:14	3.58	356	0.13
9:35:12	3.57	293.5	0.14	9:35:43	3.57	325	0.14	9:36:15	3.58	356.5	0.13
9:35:12	3.57	294	0.14	9:35:44	3.57	325.5	0.14	9:36:15	3.58	357	0.13
9:35:13	3.57	294.5	0.14	9:35:44	3.57	326	0.14	9:36:16	3.58	357.5	0.13
9:35:13	3.57	295	0.14	9:35:45	3.57	326.5	0.14	9:36:16	3.58	358	0.13
9:35:14	3.57	295.5	0.14	9:35:45	3.57	327	0.14	9:36:17	3.58	358.5	0.13
9:35:14	3.57	296	0.14	9:35:46	3.57	327.5	0.14	9:36:17	3.58	359	0.13
9:35:15	3.57	296.5	0.14	9:35:46	3.57	328	0.14	9:36:18	3.58	359.5	0.13
9:35:15	3.57	297	0.14	9:35:47	3.57	328.5	0.14	9:36:18	3.58	360	0.13
9:35:16	3.57	297.5	0.14	9:35:47	3.57	329	0.14	9:36:19	3.58	360.5	0.13
9:35:16	3.57	298	0.14	9:35:48	3.57	329.5	0.14	9:36:19	3.58	361	0.13
9:35:17	3.57	298.5	0.14	9:35:48	3.57	330	0.14	9:36:20	3.58	361.5	0.13
9:35:17	3.57	299	0.14	9:35:49	3.57	330.5	0.14	9:36:20	3.58	362	0.13
9:35:18	3.57	299.5	0.14	9:35:49	3.57	331	0.14	9:36:21	3.58	362.5	0.13
9:35:18	3.57	300	0.14	9:35:50	3.57	331.5	0.14	9:36:21	3.58	363	0.13
9:35:19	3.57	300.5	0.14	9:35:50	3.57	332	0.14	9:36:22	3.58	363.5	0.13

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:36:22	3.58	364	0.13	9:36:54	3.58	395.5	0.13	9:37:25	3.59	427	0.12
9:36:23	3.58	364.5	0.13	9:36:54	3.58	396	0.13	9:37:26	3.59	427.5	0.12
9:36:23	3.58	365	0.13	9:36:55	3.58	396.5	0.13	9:37:26	3.59	428	0.12
9:36:24	3.58	365.5	0.13	9:36:55	3.58	397	0.13	9:37:27	3.59	428.5	0.12
9:36:24	3.58	366	0.13	9:36:56	3.58	397.5	0.13	9:37:27	3.59	429	0.12
9:36:25	3.58	366.5	0.13	9:36:56	3.58	398	0.13	9:37:28	3.59	429.5	0.12
9:36:25	3.58	367	0.13	9:36:57	3.58	398.5	0.13	9:37:28	3.59	430	0.12
9:36:26	3.58	367.5	0.13	9:36:57	3.58	399	0.13	9:37:29	3.59	430.5	0.12
9:36:26	3.58	368	0.13	9:36:58	3.58	399.5	0.13	9:37:29	3.59	431	0.12
9:36:27	3.58	368.5	0.13	9:36:58	3.58	400	0.13	9:37:30	3.59	431.5	0.12
9:36:27	3.58	369	0.13	9:36:59	3.58	400.5	0.13	9:37:30	3.59	432	0.12
9:36:28	3.58	369.5	0.13	9:36:59	3.58	401	0.13	9:37:31	3.59	432.5	0.12
9:36:28	3.58	370	0.13	9:37:00	3.58	401.5	0.13	9:37:31	3.59	433	0.12
9:36:29	3.58	370.5	0.13	9:37:00	3.58	402	0.13	9:37:32	3.59	433.5	0.12
9:36:29	3.58	371	0.13	9:37:01	3.58	402.5	0.13	9:37:32	3.59	434	0.12
9:36:30	3.58	371.5	0.13	9:37:01	3.58	403	0.13	9:37:33	3.59	434.5	0.12
9:36:30	3.58	372	0.13	9:37:02	3.58	403.5	0.13	9:37:33	3.59	435	0.12
9:36:31	3.58	372.5	0.13	9:37:02	3.58	404	0.13	9:37:34	3.59	435.5	0.12
9:36:31	3.58	373	0.13	9:37:03	3.58	404.5	0.13	9:37:34	3.59	436	0.12
9:36:32	3.58	373.5	0.13	9:37:03	3.58	405	0.13	9:37:35	3.59	436.5	0.12
9:36:32	3.58	374	0.13	9:37:04	3.58	405.5	0.13	9:37:35	3.59	437	0.12
9:36:33	3.58	374.5	0.13	9:37:04	3.58	406	0.13	9:37:36	3.59	437.5	0.12
9:36:33	3.58	375	0.13	9:37:05	3.58	406.5	0.13	9:37:36	3.59	438	0.12
9:36:34	3.58	375.5	0.13	9:37:05	3.58	407	0.13	9:37:37	3.59	438.5	0.12
9:36:34	3.58	376	0.13	9:37:06	3.58	407.5	0.13	9:37:37	3.59	439	0.12
9:36:35	3.58	376.5	0.13	9:37:06	3.58	408	0.13	9:37:38	3.59	439.5	0.12
9:36:35	3.58	377	0.13	9:37:07	3.58	408.5	0.13	9:37:38	3.59	440	0.12
9:36:36	3.58	377.5	0.13	9:37:07	3.58	409	0.13	9:37:39	3.59	440.5	0.12
9:36:36	3.58	378	0.13	9:37:08	3.58	409.5	0.13	9:37:39	3.59	441	0.12
9:36:37	3.58	378.5	0.13	9:37:08	3.58	410	0.13	9:37:40	3.59	441.5	0.12
9:36:37	3.58	379	0.13	9:37:09	3.58	410.5	0.13	9:37:40	3.59	442	0.12
9:36:38	3.58	379.5	0.13	9:37:09	3.58	411	0.13	9:37:41	3.59	442.5	0.12
9:36:38	3.58	380	0.13	9:37:10	3.58	411.5	0.13	9:37:41	3.59	443	0.12
9:36:39	3.58	380.5	0.13	9:37:10	3.58	412	0.13	9:37:42	3.59	443.5	0.12
9:36:39	3.58	381	0.13	9:37:11	3.58	412.5	0.13	9:37:42	3.59	444	0.12
9:36:40	3.58	381.5	0.13	9:37:11	3.58	413	0.13	9:37:43	3.59	444.5	0.12
9:36:40	3.58	382	0.13	9:37:12	3.58	413.5	0.13	9:37:43	3.59	445	0.12
9:36:41	3.58	382.5	0.13	9:37:12	3.58	414	0.13	9:37:44	3.59	445.5	0.12
9:36:41	3.58	383	0.13	9:37:13	3.58	414.5	0.13	9:37:44	3.59	446	0.12
9:36:42	3.58	383.5	0.13	9:37:13	3.58	415	0.13	9:37:45	3.59	446.5	0.12
9:36:42	3.58	384	0.13	9:37:14	3.58	415.5	0.13	9:37:45	3.59	447	0.12
9:36:43	3.58	384.5	0.13	9:37:14	3.58	416	0.13	9:37:46	3.59	447.5	0.12
9:36:43	3.58	385	0.13	9:37:15	3.58	416.5	0.13	9:37:46	3.59	448	0.12
9:36:44	3.58	385.5	0.13	9:37:15	3.58	417	0.13	9:37:47	3.59	448.5	0.12
9:36:44	3.58	386	0.13	9:37:16	3.58	417.5	0.13	9:37:47	3.59	449	0.12
9:36:45	3.58	386.5	0.13	9:37:16	3.58	418	0.13	9:37:48	3.59	449.5	0.12
9:36:45	3.58	387	0.13	9:37:17	3.58	418.5	0.12	9:37:48	3.59	450	0.12
9:36:46	3.58	387.5	0.13	9:37:17	3.58	419	0.13	9:37:49	3.59	450.5	0.12
9:36:46	3.58	388	0.13	9:37:18	3.58	419.5	0.12	9:37:49	3.59	451	0.12
9:36:47	3.58	388.5	0.13	9:37:18	3.58	420	0.13	9:37:50	3.59	451.5	0.12
9:36:47	3.58	389	0.13	9:37:19	3.58	420.5	0.13	9:37:50	3.59	452	0.12
9:36:48	3.58	389.5	0.13	9:37:19	3.58	421	0.12	9:37:51	3.59	452.5	0.12
9:36:48	3.58	390	0.13	9:37:20	3.58	421.5	0.13	9:37:51	3.59	453	0.12
9:36:49	3.58	390.5	0.13	9:37:20	3.58	422	0.12	9:37:52	3.59	453.5	0.12
9:36:49	3.58	391	0.13	9:37:21	3.58	422.5	0.13	9:37:52	3.59	454	0.12
9:36:50	3.58	391.5	0.13	9:37:21	3.58	423	0.13	9:37:53	3.59	454.5	0.12
9:36:50	3.58	392	0.13	9:37:22	3.58	423.5	0.13	9:37:53	3.59	455	0.12
9:36:51	3.58	392.5	0.13	9:37:22	3.58	424	0.12	9:37:54	3.59	455.5	0.12
9:36:51	3.58	393	0.13	9:37:23	3.58	424.5	0.12	9:37:54	3.59	456	0.12
9:36:52	3.58	393.5	0.13	9:37:23	3.58	425	0.12	9:37:55	3.59	456.5	0.12
9:36:52	3.58	394	0.13	9:37:24	3.58	425.5	0.12	9:37:55	3.59	457	0.12
9:36:53	3.58	394.5	0.13	9:37:24	3.58	426	0.12	9:37:56	3.59	457.5	0.12
9:36:53	3.58	395	0.13	9:37:25	3.58	426.5	0.12	9:37:56	3.59	458	0.12

Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown	Time	LEVEL	Seconds	Drawdown
9:37:57	3.59	458.5	0.12	9:38:28	3.59	490	0.12	9:39:00	3.59	521.5	0.12
9:37:57	3.59	459	0.12	9:38:29	3.59	490.5	0.12	9:39:00	3.60	522	0.11
9:37:58	3.59	459.5	0.12	9:38:29	3.59	491	0.12	9:39:01	3.60	522.5	0.11
9:37:58	3.59	460	0.12	9:38:30	3.59	491.5	0.12	9:39:01	3.60	523	0.11
9:37:59	3.59	460.5	0.12	9:38:30	3.59	492	0.12	9:39:02	3.60	523.5	0.11
9:37:59	3.59	461	0.12	9:38:31	3.59	492.5	0.12	9:39:02	3.60	524	0.11
9:38:00	3.59	461.5	0.12	9:38:31	3.59	493	0.12	9:39:03	3.60	524.5	0.11
9:38:00	3.59	462	0.12	9:38:32	3.59	493.5	0.12	9:39:03	3.60	525	0.11
9:38:01	3.59	462.5	0.12	9:38:32	3.59	494	0.12	9:39:04	3.60	525.5	0.11
9:38:01	3.59	463	0.12	9:38:33	3.59	494.5	0.12	9:39:04	3.60	526	0.11
9:38:02	3.59	463.5	0.12	9:38:33	3.59	495	0.12	9:39:05	3.60	526.5	0.11
9:38:02	3.59	464	0.12	9:38:34	3.59	495.5	0.12	9:39:05	3.60	527	0.11
9:38:03	3.59	464.5	0.12	9:38:34	3.59	496	0.12	9:39:06	3.60	527.5	0.11
9:38:03	3.59	465	0.12	9:38:35	3.59	496.5	0.12	9:39:06	3.60	528	0.11
9:38:04	3.59	465.5	0.12	9:38:35	3.59	497	0.12	9:39:07	3.60	528.5	0.11
9:38:04	3.59	466	0.12	9:38:36	3.59	497.5	0.12	9:39:07	3.60	529	0.11
9:38:05	3.59	466.5	0.12	9:38:36	3.59	498	0.12	9:39:08	3.60	529.5	0.11
9:38:05	3.59	467	0.12	9:38:37	3.59	498.5	0.12	9:39:08	3.60	530	0.11
9:38:06	3.59	467.5	0.12	9:38:37	3.59	499	0.12	9:39:09	3.60	530.5	0.11
9:38:06	3.59	468	0.12	9:38:38	3.59	499.5	0.12	9:39:09	3.60	531	0.11
9:38:07	3.59	468.5	0.12	9:38:38	3.59	500	0.12	9:39:10	3.60	531.5	0.11
9:38:07	3.59	469	0.12	9:38:39	3.59	500.5	0.12	9:39:10	3.60	532	0.11
9:38:08	3.59	469.5	0.12	9:38:39	3.59	501	0.12	9:39:11	3.60	532.5	0.11
9:38:08	3.59	470	0.12	9:38:40	3.59	501.5	0.12	9:39:11	3.60	533	0.11
9:38:09	3.59	470.5	0.12	9:38:40	3.59	502	0.12	9:39:12	3.60	533.5	0.11
9:38:09	3.59	471	0.12	9:38:41	3.59	502.5	0.12	9:39:12	3.60	534	0.11
9:38:10	3.59	471.5	0.12	9:38:41	3.59	503	0.12	9:39:13	3.60	534.5	0.11
9:38:10	3.59	472	0.12	9:38:42	3.59	503.5	0.12	9:39:13	3.60	535	0.11
9:38:11	3.59	472.5	0.12	9:38:42	3.59	504	0.12	9:39:14	3.60	535.5	0.11
9:38:11	3.59	473	0.12	9:38:43	3.59	504.5	0.12	9:39:14	3.60	536	0.11
9:38:12	3.59	473.5	0.12	9:38:43	3.59	505	0.12	9:39:15	3.60	536.5	0.11
9:38:12	3.59	474	0.12	9:38:44	3.59	505.5	0.12	9:39:15	3.60	537	0.11
9:38:13	3.59	474.5	0.12	9:38:44	3.59	506	0.12	9:39:16	3.60	537.5	0.11
9:38:13	3.59	475	0.12	9:38:45	3.59	506.5	0.12	9:39:16	3.60	538	0.11
9:38:14	3.59	475.5	0.12	9:38:45	3.59	507	0.12	9:39:17	3.60	538.5	0.11
9:38:14	3.59	476	0.12	9:38:46	3.59	507.5	0.12	9:39:17	3.60	539	0.11
9:38:15	3.59	476.5	0.12	9:38:46	3.59	508	0.12	9:39:18	3.60	539.5	0.11
9:38:15	3.59	477	0.12	9:38:47	3.59	508.5	0.12	9:39:18	3.60	540	0.11
9:38:16	3.59	477.5	0.12	9:38:47	3.59	509	0.12	9:39:19	3.60	540.5	0.11
9:38:16	3.59	478	0.12	9:38:48	3.59	509.5	0.12	9:39:19	3.60	541	0.11
9:38:17	3.59	478.5	0.12	9:38:48	3.59	510	0.12	9:39:20	3.60	541.5	0.11
9:38:17	3.59	479	0.12	9:38:49	3.59	510.5	0.12	9:39:20	3.60	542	0.11
9:38:18	3.59	479.5	0.12	9:38:49	3.59	511	0.12	9:39:21	3.60	542.5	0.11
9:38:18	3.59	480	0.12	9:38:50	3.59	511.5	0.12	9:39:21	3.60	543	0.11
9:38:19	3.59	480.5	0.12	9:38:50	3.59	512	0.12	9:39:22	3.60	543.5	0.11
9:38:19	3.59	481	0.12	9:38:51	3.59	512.5	0.12	9:39:22	3.60	544	0.11
9:38:20	3.59	481.5	0.12	9:38:51	3.59	513	0.12	9:39:23	3.60	544.5	0.11
9:38:20	3.59	482	0.12	9:38:52	3.59	513.5	0.12	9:39:23	3.60	545	0.11
9:38:21	3.59	482.5	0.12	9:38:52	3.59	514	0.12	9:39:24	3.60	545.5	0.11
9:38:21	3.59	483	0.12	9:38:53	3.59	514.5	0.12	9:39:24	3.60	546	0.11
9:38:22	3.59	483.5	0.12	9:38:53	3.59	515	0.12	9:39:25	3.60	546.5	0.11
9:38:22	3.59	484	0.12	9:38:54	3.59	515.5	0.12	9:39:25	3.60	547	0.11
9:38:23	3.59	484.5	0.12	9:38:54	3.59	516	0.12	9:39:26	3.60	547.5	0.11
9:38:23	3.59	485	0.12	9:38:55	3.59	516.5	0.12	9:39:26	3.60	548	0.11
9:38:24	3.59	485.5	0.12	9:38:55	3.59	517	0.12	9:39:27	3.60	548.5	0.11
9:38:24	3.59	486	0.12	9:38:56	3.59	517.5	0.12	9:39:27	3.60	549	0.11
9:38:25	3.59	486.5	0.12	9:38:56	3.59	518	0.12	9:39:28	3.60	549.5	0.11
9:38:25	3.59	487	0.12	9:38:57	3.59	518.5	0.12	9:39:28	3.60	550	0.11
9:38:26	3.59	487.5	0.12	9:38:57	3.59	519	0.12	9:39:29	3.60	550.5	0.11
9:38:26	3.59	488	0.12	9:38:58	3.60	519.5	0.11	9:39:29	3.60	551	0.11
9:38:27	3.59	488.5	0.12	9:38:58	3.60	520	0.11	9:39:30	3.60	551.5	0.11
9:38:27	3.59	489	0.12	9:38:59	3.60	520.5	0.11	9:39:30	3.60	552	0.11
9:38:28	3.59	489.5	0.12	9:38:59	3.60	521	0.11	9:39:31	3.60	552.5	0.11