



Supplemental Phase II Environmental Site Assessment, Former Retail Fuel Outlet, Cardlock and Motel

1310 South Service Rd, Stoney Creek

Project No. 0138-001.02

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Executive Summary

Jennum Properties Inc. (Jennum) retained BlueFrog Environmental Consulting Inc. (BlueFrog) to complete a Supplemental Phase II Environmental Site Assessment (ESA) of the subject property located at 1310 South Service Rd, Stoney Creek (the Site). The assessment was completed for due diligence purposes pertaining to Jennum potentially acquiring the Site to redevelop it for mixed use commercial and residential purposes. The Site was formerly an Imperial Oil retail fuel outlet (RFO), cardlock and motel. The above grade RFO infrastructure and motel was previously removed from the Site. The RFO underground storage tanks (USTs) and possibly some distribution piping was still present at the time of the Supplemental Phase II ESA work.

The objective of the Supplemental Phase II ESA was to i) obtain a better understanding of the environmental condition of the property, and with the existing and new data, develop remedial and/or risk management measures to address the identified impacts; ii) complete a preliminary assessment of the quality of stockpiles of imported soil present on the Site; and iii) estimate costs to facilitate filing of a Record of Site Condition (RSC) including approximate timelines.

The Supplemental Phase II ESA was completed and is summarized below. Note that some of the boreholes and monitoring wells were completed exclusively for geotechnical and hydrogeological assessments reported under separate cover and as such, are not further discussed within this report.

Field work dates	March 29, 2022, to June 17, 2022	
Total number of assessment locations advanced	14	
Total assessment locations completed as boreholes	7 (BH101, BH102, BH104, BH108, BH109, BH110, BH111)	
Total assessment locations completed as monitoring wells	7 (MW103, MW105, MW106, MW107, MW112, MW113, MW114)	
Stockpile soil sampling locations	6 (SP1 to SP6)	
Site Condition Standard	Ministry of The Environment, Conservation and Parks (MECP) full depth generic site condition standards (SCS) for a non-potable groundwater condition (Table 7) for residential/parkland/institutional property use in medium and fine textured soils.	
Maximum assessment depth	6.1 m below ground surface (bgs).	
Soil Stratigraphy	Sandy fill up to 5.4 mbgs, overlying silty clay. Weathered shale was encountered at depths between 7.0 mbgs and 10.6 mbgs. Asphalt was observed at some locations on top of gravel fill.	
Depth to groundwater; inferred flow direction	0.00 mbgs and 5.64 mbgs; Groundwater flow was inferred to be towards the east.	
	Soil	Groundwater
Evidence of free product	None	A sheen was detected within the purged water of existing monitoring well BH201.

Subsurface vapour concentration	Combustible: Not detect to 35% lower explosive limit (LEL) Organic: Not detect to 400 parts per million by volume (ppmv)	Combustible: Not detect to 29% LEL Organic: Not detect to 3 ppmv
Soil Exceedances	<ul style="list-style-type: none"> Petroleum related parameters (ethylbenzene, xylenes, petroleum hydrocarbon (PHC) fraction F1 in a sample collected from BH110 between 0.8 and 1.3 mbgs. Petroleum related parameters (benzene, toluene, ethylbenzene, xylenes (BTEX), PHC fraction F1, hexane) in a sample collected from BH111 between 0.8 and 1.3 mbgs. Benzene in a sample collected from BH111 between 1.5 and 2.1 mbgs. Barium in one stockpile sample (SP6) and EC in four stockpile samples (SP2, SP3, SP4 and SP5). 	
Groundwater Exceedances	<ul style="list-style-type: none"> Benzene in MW113. Petroleum related parameters (benzene, ethylbenzene, xylenes, PHC fractions F1 and F2, hexane) in BH201 (installed by others). 	

Based on the current and historical soil and groundwater analytical results:

- Petroleum related soil impacts were identified in the area of the former fuel pump island canopy. The soil impacts were reasonably delineated horizontally and are expected to be localized to the petroleum facilities. The soil impacts were vertically delineated to a depth of 3.0 mbgs. No petroleum related groundwater impacts were observed within this area.
- Petroleum related groundwater impacts were observed within the area of the USTs. The groundwater impacts were delineated to the west, east; and south, but not to the north. The benzene exceedance observed at MW113 at the north property line was marginally above the SCS.
- Stockpiled soil of unknown quality and unknown origin were identified on the eastern portion of the property. Six soil samples were collected throughout the stockpiles to assess the material. One of the samples collected had a marginal exceedance of barium and four samples had exceedances of EC.

Based on the findings observed within this Supplemental Phase II ESA, along with previously completed assessments, the impacts observed within the soil and groundwater exist within the central north area of the Site related to the former RFO.

It should be noted that the groundwater impacts observed at the northern property boundary have the potential to extend off-site.

Based on the findings, soil and groundwater analytical results met the applicable standards with the exception of those discussed above.

This Executive Summary is not intended to be a stand-alone document, but a summary of findings as described in the following Report. It is intended to be used in conjunction with the scope of services and limitations described therein.

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1.0 Introduction and Objectives

Jennum Properties Inc. (Jennum) retained BlueFrog Environmental Consulting Inc. (BlueFrog) to complete a Supplemental Phase II Environmental Site Assessment (ESA) of the subject property located at 1310 South Service Rd, Stoney Creek (the Site). The assessment was completed for due diligence purposes pertaining to Jennum potentially acquiring the Site to redevelop it for mixed use commercial and residential purposes. The Site was formerly an Imperial Oil retail fuel outlet (RFO) and motel. The above grade RFO infrastructure and motel was previously removed from the Site. The RFO underground storage tanks (USTs) and possibly some distribution piping was still present at the time of the Supplemental Phase II ESA work.

The objective of the Supplemental Phase II ESA was to i) obtain a better understanding of the environmental condition of the property, and with the existing and new data, develop remedial and/or risk management measures to address the identified impacts; ii) complete a preliminary assessment of the quality of stockpiles of imported soil present on the Site; and iii) estimate costs to facilitate filing of a Record of Site Condition (RSC) including approximate timelines.

The subject work was performed in accordance with the agreement between BlueFrog Environmental Consulting Inc. and Jennum, dated September 22, 2021. This report has been prepared based on fieldwork and/or review of information conducted by BlueFrog, for the sole benefit and use by Jennum. In performing the work, BlueFrog has relied in good faith on information provided by others and has assumed that the information provided is both complete and accurate. The work was performed to current industry practice for similar environmental work, within the same regulatory jurisdiction. The findings presented herein should be considered in the context of the scope of work; further, the findings are considered valid only at the time the report was produced. The information presented herein shall not be construed as legal advice.

The conclusions, recommendations, and/or opinions presented in this report are based upon engineering and/or geoscience judgement and experience within the context of Jennum's objectives and the applicable guidelines, regulations, and legislation existing at the time the report was produced.

1.1 Site Description

The regional topography and Site location are shown on **Figure 1**.

The Site is approximately 2.67 hectares in size and was developed in the mid 1950s from undeveloped or agricultural land. The now vacant Site formerly operated as an Imperial Oil retail fuel outlet and cardlock facility and a motel/restaurant/variety store complex. Site operations were ceased in 2012. The Site is in a primarily commercial, and residential area.

1.2 Background

The following documents were provided to BlueFrog for review.

1. *Review of Environmental Site Assessment Reports, 1310 South Service Road, Stoney Creek, Ontario*, prepared by Terraprobe, dated May 8, 2008.
2. *Subsurface Investigation Pump Island Area, 1310 South Service Road, Stoney Creek, Ontario*, prepared by Terraprobe, dated July 2008.

3. *Phase One Environmental Site Assessment, 1310 South Service Road, Stoney Creek, Ontario*, prepared by Terraprobe Inc, dated October 13, 2012.
4. *Phase Two Environmental Site Assessment, 1310 South Service Road, Stoney Creek, Ontario*, prepared by Terraprobe Inc, dated May 23, 2014.
5. *Phase II Environmental Site Assessment, West Portion of 1310 South Service Road, Stoney Creek, Ontario*, prepared by LRL Associates Ltd., dated April 5, 2021.

BlueFrog identified the following pertinent information from the documents provided:

- The Site was first developed between 1954 and 1965 and operated as an Imperial Oil (IOL) RFO and diesel cardlock operation, and a motel/restaurant/variety store.
- The IOL RFO and cardlock operated on the northern half of the Site and the motel/restaurant/variety store building was located on the southern half of the Site.
- The fueling operations and the motel/restaurant/variety store ceased operations in 2012.
- All former aboveground structures were subsequently removed from the Site and the Site is currently vacant land.
- The underground storage tanks related to the former RFO and cardlock were abandoned in place and it's unknown if the underground dispensing equipment was removed.
- Terraprobe Inc. completed a Phase One Environmental Site Assessment (ESA) in 2013 for due diligence purposes. The relevant findings of the assessment are as follows:
- A soil remediation report was reviewed as part of the Phase One ESA, which reported that the fueling infrastructure (fuel dispensing area, underground storage tanks) associated with the IOL cardlock, including an oil-water separator (OWS), were removed from the Site in 2012. A soil remediation program was subsequently undertaken to remove approximately 6300 tonnes of petroleum hydrocarbon (PHC) impacted soil for off-site disposal.
- Four additional USTs located east of the IOL USTs were abandoned in place as these tanks were not associated with the cardlock operations and reportedly not IOL's responsibility. These USTs were associated with the RFO.
- The southern extent of the IOL remediation extended to the northern portion of the RFO. However, it was reported that not all of the soil impacts were removed in the vicinity of the dispensing area as PHC-impacted soils were identified in this area and were reportedly associated with the RFO and not the diesel cardlock.
- The Phase One ESA identified the following Areas of Potential Environmental Concern or APECs:
 - i. The former IOL RFO and cardlock operations.
 - ii. Berms of soil at the boundaries of the Site were identified and the quality of the soil in the berms was unknown.
 - iii. Historical records identified multiple spills of various quantities of petroleum products to the ground and ditch.
 - iv. The potential application of pesticides on the south adjacent property related to a former potential fruit orchard.
- Terraprobe Inc. completed a Phase Two ESA in 2014 to assess the APECs identified during the Phase One ESA. In addition, LRL Associates (LRL) completed a Phase II ESA in 2020 to assess soil and groundwater conditions in the western portion of the Site only.

- The relevant findings of the Phase Two/II ESAs are as follows:
 - Soil and groundwater analytical results from the Terraprobe investigation were compared to the Ontario Ministry of the Environment, Conservation and Parks (MECP) Site Condition Standards for non-potable groundwater, industrial/commercial/community property use and fine-medium textured soils.
 - The soil and groundwater results for the LRL investigation were compared to the coarse textured standards.
 - All the soil analytical results were below the 2011 Table 7 RPI SCSs with the exception of the following:
 - The concentrations of one or more of PHC fractions F1 and F2 and BTEX in shallow soil samples collected from two boreholes (BH5 and BH9) advanced in the vicinity of the former RFO dispensing area.
 - The concentrations of metals (cadmium and zinc) in a shallow soil sample collected from a borehole (MW8) advanced at the southeastern property boundary. The pH level in soil was also above the acceptable range of 5.0 to 9.0 at MW8.
 - The concentrations of electrical conductivity (EC) in shallow soil samples collected from three boreholes (BH5, MW7 and MW8).
 - The groundwater analytical results were below the 2011 Table 7 SCSs with the exception of the following:
 - Benzene in one monitoring well (MW2) advanced during the Terraprobe Phase Two ESA at the northern portion of the Site. This monitoring well is situated in a downgradient location to the former IOL cardlock and RFOUSTs.
 - The concentrations of PHC fractions F2, F3 and F4 in a duplicate groundwater sample in a monitoring well (MW21-8) advanced during the LRL Phase II ESA in the western portion of the Site. The PHC concentrations in the groundwater sample are suspected to be biased high due to sediment in the sample as the laboratory CofC indicated that there was greater than 5% sediment in the sample.

2.0 Scope of Work

The Supplemental Phase II ESA involved the following main activities:

- Advance boreholes and install monitoring wells in the areas shown on **Figure 2**.
- Collect soil and groundwater samples from the boreholes and monitoring wells for laboratory analysis of one or more of the following:
 - Benzene, toluene, ethylbenzene, and xylenes (BTEX), and PHC fractions F1 to F4, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and/or selected metals.
 - Selected samples for grain size analysis and pH to assist with selecting applicable site condition standards.
- Collect a composite sample of soil cuttings for Toxicity Characteristic Leaching Procedure (TCLP) analysis.

- Monitor the newly installed monitoring wells for water level, subsurface vapour concentration, and presence or absence of free product, floating, light non-aqueous phase liquids, (LNAPL) or sinking, dense non-aqueous phase liquids (DNAPL).
- Complete a survey of the stockpile of soil at the Site in an effort to determine the volume to determine a future cost estimate for removal.
- Prepare a factual report documenting the field activities and results.

2.1 Assessment Rationale

The assessment rationale was as follows.

Assessment Location	Rationale	Soil Samples	Groundwater Samples
MW103, BH110, BH111	<ul style="list-style-type: none"> • Determine lateral and/or vertical extent of PHC impacted soils in vicinity of former gasoline service station and IOL cardlock. 	PHC BTEX VOCs	N/A
MW112	<ul style="list-style-type: none"> • Former IOL cardlock area where PHC impacted soil and groundwater was removed. Screen interval of previous monitoring well (MW4) was too deep to assess groundwater quality post-remediation. 	PHC BTEX VOCs Metals	PHC BTEX VOCs Metals
MW113	<ul style="list-style-type: none"> • Assess soil and groundwater quality in the vicinity of a former oil-water separator at the northern portion of the Site where previous assessment work was not completed. 	PHC BTEX VOCs PAHs Metals	PHC BTEX VOCs PAHs Metals
MW105 and MW114	<ul style="list-style-type: none"> • To delineate PHC impacted soil and groundwater impacts east and west of the former gasoline service station and IOL cardlock. 	PHC BTEX VOCs Metals	PHC BTEX VOCs Metals
MW2, MW3, MW4, MW21-8	<ul style="list-style-type: none"> • Assess groundwater quality in existing monitoring wells. • Re-sample monitoring well MW21-8 where previous elevated concentrations of PHCs above the Table 3 Standards was suspected to be biased high due to sediment in the sample. 	N/A	PHC BTEX VOCs Metals

2.2 Exceptions

There were no deviations to the sampling and analysis plan and applicable areas of the Site were accessible with no impediments affecting the sampling and analysis plan. The only exception involved the collection of groundwater samples from the following previously installed monitoring wells identified during the field work:

- Groundwater samples were collected from two existing wells (labelled as BH201 and BH401) adjacent to the abandoned USTs. The depths of BH201 and BH401 were measured to be 7.02 m and 16.03 m. Field evidence of impact (petroleum odours, elevated subsurface vapour readings and surficial soil staining) was observed in the vicinity of the wells).
- A groundwater sample was collected from a monitoring well (labelled as BH303) located east of the former gasoline pump island area to horizontally delineate groundwater impacts to the east.
- A groundwater sample was not collected from previously installed monitoring well MW2 as the well could not be located.

3.0 Methodology

This Phase II ESA was completed in general accordance with the Ontario Ministry of the Environment, Conservation and Parks (MECP) Guidance for Completing Phase Two Environmental Site Assessments under Ontario Regulation 153/04 (as amended), the MECP Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (as amended), and standard industry practice. The work was not done to facilitate filing of a MECP Record of Site Condition.

Soil and groundwater samples were submitted to the Bureau Veritas (BV) laboratory in Mississauga, Ontario. BV's Mississauga laboratory is accredited by the Standards Council of Canada. Analytical methods used by the laboratory are referenced in the certificates of analysis presented in **Appendix B**. Analytical procedures were conducted in accordance with the MECP Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (as amended).

A summary of the work is as follows.

Field work dates	Drilling and monitoring well installation: March 29 to April 5, 2022 Surveying: April 6, 2022 Monitoring well development: April 6 and April 7, 2022 Groundwater monitoring and sampling: April 8 to June 17, 2022
Drilling contractor; drill rig	Profile Drilling; track mounted conventional drill rig
Maximum assessment depth	6.1 mbgs
Assessment locations completed as boreholes	7 (BH101, BH102, BH104, BH108, BH109, BH110, BH111)
Assessment locations completed as monitoring wells	7 (MW103, MW105, MW106, MW107, MW112, MW113, MW114)

Field methodology is further discussed in the following subsections. The assessment locations are presented on **Figure 2**. Borehole logs detailing soil observations and monitoring well installation are presented on **Appendix A**.

3.1 Drilling and Monitoring Well Installation

Public and private utility locates were completed prior to the initiation of the drilling program.

BlueFrog staff supervised the drilling of the boreholes and installation of monitoring wells. The assessment locations are presented on **Figure 2**.

During borehole advancement, boreholes were logged for textural classification and visual observations. Hollow stem augers and solid stem augers were used to drill through the overburden soil. Drill cuttings were collected in steel drums for disposal at a MECP licensed waste receiver.

A monitoring well, consisting of a 3.0 m long, 51 mm diameter polyvinyl chloride (PVC) 10 slot screen and an un-slotted PVC riser above the well screen was installed in selected boreholes. A sand pack was placed in the annulus between the slotted PVC screen and borehole walls to a maximum of 0.3 m above the well screen. Hydrated bentonite chips were placed in the annulus between the solid PVC riser and borehole walls above the sand pack to approximately 0.3 m below ground surface. The monitoring wells were completed with a J-plug and monument casing set in concrete grout to protect the well from damage.

Monitoring well installation details are presented on the borehole logs in **Appendix A** and in **Table 1**.

3.1.1 Monitoring Well Development

Following installation of the monitoring wells, the wells were developed by purging a minimum of three casing volumes or until the well was considered dry three times.

The purpose of developing the monitoring well was to remove soils or other materials which may have entered the monitoring well during construction to ensure future water samples would be representative of formation water.

The wells were purged using dedicated tubing, and the purge water was placed in a drum on-site for temporary storage pending removal off-Site to an MECP approved waste receiving facility.

3.2 Soil Sampling

During the drilling investigation soil samples were collected using a 51 mm outside diameter split barrel (split spoon) sampler. Soil samples were collected by BlueFrog from material within the split spoon at regular intervals. In addition, six grab soil samples were collected from the stockpile of soil located at the southeastern portion of the Site.

The samples were collected using a stainless-steel trowel and nitrile gloves. Each soil sample was immediately split; one portion of the sample was sealed in a clean plastic bag for vapour screening, the remainder of the sample was placed in containers supplied by the laboratory and stored in coolers on ice for possible analysis.

The sampling devices were cleaned with a solution of phosphate-free detergent and water, then rinsed with distilled water, prior to collecting each sample.

Soil screening included:

- Determining textural description;
- Visual evidence of impact (e.g., staining, or free product); and
- Measurement of combustible vapours (CV) and organic vapours (OV) from the soil headspace using an RKI EAGLE 2 gas monitor.

A composite soil sample of the drill cuttings generated throughout the investigation were submitted for laboratory analysis to facilitate disposal.

Soil samples submitted for laboratory analysis were selected based on field screening results, visual observations and/or sample location relative to the water table. Samples were collected into sample bottles supplied by the laboratory:

- In 40-mL clear glass vials pre-charged with 10 mL of methanol preservative for analysis of VOCs (including BTEX) and PHC fraction F1. Approximately 5 g of soil was collected using a dedicated sampling syringe.
- In 120-mL glass jars with Teflon lined lids for analysis of PHC fractions F2 to F4 and PAHs.
- In 250-mL glass jars with Teflon lined lids for analysis of metals and/or waste classification parameters.

3.3 Groundwater Monitoring

The newly installed monitoring wells were monitored for subsurface vapour concentrations, water levels, and the presence or absence of liquid product, (LNAPL and DNAPL).

The monitoring wells were generally monitored in order of least impacted to most impacted (based on field screening and previous soil analytical results).

Immediately after removing the well caps, the maximum CV and/or OV subsurface vapour concentrations in the monitoring wells were measured using an RKI EAGLE 2 gas monitor operated in methane elimination mode. This was done by inserting the collection tube of the RKI EAGLE 2 into the top portion of the riser pipes and recording the peak instrument readings.

The depth to the water table and presence or absence of light and dense non-aqueous phase liquids in the monitoring wells were determined with a Solinst interface meter that was cleaned with a solution of phosphate-free detergent and water, then rinsed with distilled water, between monitoring wells.

3.4 Groundwater Sampling

Groundwater samples were collected from the newly installed monitoring wells using a low-flow purging methodology. Low-flow purging was completed using a variable-flow peristaltic pump to remove groundwater from the mid-point of the monitoring well screened zone.

The pump was connected to a flow-through cell equipped with a multimeter (Horiba U-52) that measured pH, temperature, electrical conductivity, dissolved oxygen (DO), reduction oxidation potential (REDOX), and turbidity.

The groundwater sample was collected when the pH, temperature, electrical conductivity, DO and REDOX measurements generally stabilized, as noted below, over three consecutive readings, taken at a maximum rate of at least one per every flow-through cell volume.

Temperature	± 3%
pH	± 0.1 pH Units
Electrical Conductivity	± 3%
Dissolved Oxygen	± 10%
REDOX	± 10 mV

Due to limited water present at monitoring wells MW113 and MW105 following well development; the groundwater samples were collected using the low-flow purging methodology prior to measurements stabilizing in an effort to avoid running out of water to sample.

The pump and flow-through cell were connected to the monitoring wells with polyethylene and silicone tubing sections dedicated to each monitoring well. All groundwater samples were collected using dedicated tubing.

Purged groundwater was placed in sealed drums at the Site for storage until it could be transported to a MECP licensed waste receiving facility.

Samples were collected into sample bottles supplied by the laboratory:

- In septum topped 40-mL clear glass vials, pre-charged with sodium bisulphate preservative, with no headspace for analysis of BTEX and PHC fraction F1.
- In 100-mL amber glass bottles, pre-charged with sodium bisulphate preservative for analysis of PHC fractions F2 to F4 and/or PAHs.
- In 120-mL plastic bottles pre-charged with nitric acid for analysis of metals. Samples were field filtered with 0.45 µm in-line filters.

The groundwater samples were placed in coolers on ice promptly after they were collected.

3.5 Surveying

The newly installed monitoring wells were vertically and horizontally surveyed by BlueFrog and tied into a common benchmark using a self-leveling laser unit.

BlueFrog also retained Surveyors on Site Inc. (SOS) to complete a survey of the stockpile of soil present at the Site. They survey determined that there is an estimated volume of 3598m³ (7200 tonnes) of soil is present in the stockpile.

3.6 Quality Assurance and Quality Control (QA/QC)

A QA/QC program was implemented to reduce and quantify potential issues introduced during sample collection, handling, shipping, and analysis. The quality assurance program included, but was not limited to, using trained field personnel, dedicated sampling equipment, employing sample-specific identification and labelling procedures, using chain of custody records, and duplicate samples.

4.0 Selected Site Condition Standards

Based on the details provided below, the site condition standards (SCSs) selected were:

- Ministry of The Environment, Conservation and Parks (MECP) full depth generic site condition standards (SCSs) for a non-potable groundwater condition (Table 7) for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils (MECP Table 7 SCSs).

Groundwater condition	Non-potable: The Site is supplied by a municipal drinking water system. No drinking water wells are located within 250 m of the Site.
Environmentally sensitive areas	No part of Site is on or within 30 m of an area of natural significance. pH values for surface soil samples (< 1.5 mbgs) are not less than 5 or greater than 9. pH values for subsurface soil samples (> 1.5 mbgs) are not less than 5 or greater than 11.
Shallow soil property	As indicated by the available borehole logs, less than one third of the Site consists of soil equal to or less than 2 meters in depth beneath the soil surface, excluding any non-soil surface treatment.
Proximity to a waterbody	A waterbody is not located on, adjacent to, or within 30 m of the property.
Current and proposed land use	The current use of the Site is industrial with a proposed change to residential use.
Soil texture	Fine textured soils, as determined by the borehole logs and grain size analysis, which collectively indicated that more than two-thirds of the soil at the property, measured by volume, consisted of 50 percent or more of particles that are smaller than 75 µm in diameter.
Full depth or stratified	The full depth rather than the stratified generic site condition standards was selected.

5.0 Field Observations

5.1 Soil

Field observations are presented on the borehole logs in **Appendix A** and summarized below.

Stratigraphy	The stratigraphic profile encountered with increasing depth in the boreholes generally consisted of sand fill up to 5.4 mbgs, overlying native silty clay to the maximum depth of 11.1 mbgs. Weathered shale was encountered at depths between 7.0 mbgs and 10.6 mbgs. The sand fill identified to a depth of 5.4 mbgs was observed in monitoring well MW112, which was advanced within the footprint of the former IOL remediation.
Soil vapour concentrations	Combustible: Not detect to 35% lower explosive limit (LEL) Organic: Not detect to 400 parts per million by volume (ppmv)
Visual evidence of impact (e.g., staining or free product)	Black staining was observed at the following locations: <ul style="list-style-type: none"> BH110 at 0.6 mbgs and 1.8 mbgs. BH111 at 0.6 mbgs MW114 at 0.8 mbgs.

5.2 Groundwater

Groundwater field observations are detailed in **Table 1** and summarized below.

The elevation of the water levels was measured and recorded on April 11, April 22, May 6, May 19, June 2 and June 17, 2022. The groundwater elevations have been contoured and presented on **Figure 3**. It should be noted that the groundwater table fluctuates seasonally, and groundwater depths are based on short term monitoring.

Measured water levels in monitoring wells within the northern portion of the Site were generally shallower, which is likely due drainage issues associated with surface water accumulating in the area.

Groundwater levels	Monitored on April 11, April 22, May 6, May 19, June 2 and June 17, 2022: 0.00 mbgs and 5.64 mbgs;
Inferred groundwater direction	Groundwater flow was inferred to be towards the east on May 6, 2022.
Subsurface vapour concentrations measured in monitoring wells	Combustible: Not detect to 29% LEL Organic: Not detect to 3 ppmv
Free product (LNAPL and DNAPL)	A sheen was detected within the purged water of BH201.

6.0 Analytical Results

6.1 Soil Analytical Results

The soil analytical results are presented and compared to the applicable MECP Table 7 SCSs in **Tables 2a, 2b, 2c and 2d**. The laboratory certificates of analysis are present as **Appendix B**.

6.1.1 Boreholes

The concentration of each parameter of concern in soil analyzed met the applicable MECP Table 7 SCSs with the exception of the following boreholes:

- Ethylbenzene, xylenes and PHC Fraction F1 in the soil sample collected from BH110 at a depth of 0.8-1.3 mbgs;
- One or more of BTEX, hexane, and PHC fraction F1 in the soil sample collected from BH111 at a depth of 0.8-1.3 mbgs and 1.5-2.1 mbgs; and

The soil exceedances identified during the previous investigations and this investigation are shown on **Figure 4**.

6.1.2 Stockpile Sampling

The concentration of each parameter of concern in soil analyzed met the applicable MECP Table 7 SCSs with the exception barium in one stockpile sample (SP6) and electrical conductivity (EC) in four stockpile samples (SP2, SP3, SP4 and SP5).

The soil exceedances identified are shown on **Figure 4**.

6.2 Groundwater Analytical Results

The groundwater analytical results are presented and compared to the applicable MECP Table 7 SCSs in Tables **3a**, **3b**, **3c** and **3d**. The laboratory certificates of analysis are present as **Appendix B**.

The concentration of each parameter of concern in groundwater analyzed met the applicable MECP Table 7 SCSs with the exception of the following:

- Benzene in MW113;
- Benzene, ethylbenzene, xylenes, hexane and PHC fractions F1 and F2 in BH201;
- Benzene, ethylbenzene, xylenes and PHC fraction F1 and F2 in DUP-1 which was taken at BH201.

The current groundwater exceedances from BlueFrog's environmental assessment activities are also shown on **Figure 5**.

Maximum concentrations of contaminants of concern (COCs) were observed at a previously installed 7.0 m deep monitoring well (BH201) advanced adjacent to the abandoned USTs. The concentrations of COCs in groundwater in a 16.03 m deep monitoring well (BH401) also installed adjacent to the USTs met the MECP Table 7 SCSs, suggesting the vertical extent of the groundwater impacts were determined.

The concentrations of PHC fractions F2, F3 and F4 in the groundwater sample collected from monitoring well MW21-8 met the MECP Table 7 SCSs with all concentrations being below laboratory detection limits. This suggests that the previous exceedances of PHCs in the groundwater sample were biased high due to sediment in the sample.

6.3 Quality Assurance and Quality Control (QA/QC)

The results of the laboratory quality control analyses are presented in the laboratory certificates of analysis in **Appendix B**. The analyses included instrument and extraction surrogate recovery, method blanks, matrix duplicates, and matrix spikes and were considered acceptable with respect to conventional QA/QC standards.

No QA/QC issues were identified that would materially affect the assessment findings presented in this report.

7.0 Findings

The objective of the Supplemental Phase II ESA was to i) obtain a better understanding of the environmental condition of the property, and with the existing and new data, to develop remedial and/or risk management measures to address the identified impacts; ii) complete preliminary options. Additionally, to assessment of the quality of the stockpiles of imported soil fill present on the Site; and iii) estimate costs to facilitate filing of a Record of Site Condition (RSC) including approximated timelines.

Soil and groundwater sampled were collected and submitted for laboratory analysis for one or more of PHC F1 to F4, BTEX, VOCs, and metals.

The results of the assessment are summarized as follows:

- **Stratigraphy and soil observations:** The stratigraphic profile encountered with increasing depth in the boreholes generally consisted of sand fill up to 5.4 mbgs, overlying native silty clay to the maximum depth of 11.1 mbgs. Weathered shale was encountered at depths between 7.0 mbgs and 10.6 mbgs.
- **Groundwater depth and flow direction:** ranged from 0.00 mbgs to 5.64 mbgs. The inferred principal direction of groundwater flow was inferred to be towards the east.
- **Free product (LNAPL and DNAPL):** A sheen was detected within the purged water of existing monitoring well BH201.
- **Site Condition Standards:** MECP full depth generic site condition standards for a non-potable groundwater condition (Table 7) for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils was selected for comparison with the soil and groundwater analytical results.
- **Soil analytical results:** Met the applicable Table 7 SCSs with the exception of:
 - Ethylbenzene, xylenes and PHC Fraction F1 in BH110 (0.8-1.3 m);
 - One or more of BTEX, hexane, and PHC fraction F1 in BH111 (0.8-1.3 m and 1.5-2.1 m);
 - Benzene in BH111-1.5-2.1, and;
 - The concentrations of barium in one stockpile sample (SP6) and concentrations of EC in four stockpile samples (SP2, SP3, SP4 and SP5).
- **Groundwater analytical results:** Met the applicable Table 7 SCSs with the exception of:
 - Benzene in MW113;
 - Benzene, ethylbenzene, xylenes, hexane and PHC fraction F1 and F2 in BH201;
 - Benzene, ethylbenzene, xylenes and PHC fraction F1 and F2 in DUP-1 which was taken at BH201.

8.0 Discussion

Based on the current and historical soil and groundwater analytical results:

- Petroleum related soil impacts were identified located in the area of the former fuel pump island canopy. The soil impacts were reasonably delineated horizontally delineated to the west, east; and north, but not to the south; and are expected to be localized to the petroleum facilities. The soil impacts were vertically delineated to a depth of 3.0 mbgs. No petroleum related groundwater impacts were observed within this area.
- Petroleum related groundwater impacts were observed within the area north of the USTs. The groundwater impacts were delineated to the west, east; and south, but not to the north. The benzene exceedance observed at MW113 at the north property line was marginally above the SCSs.
- Stockpiled soil of unknown quality and unknown origin were identified on the eastern portion of the property. Six soil samples were collected throughout the stockpiles to assess the material. One of the samples collected had a marginal exceedance of barium and four samples had exceedances of EC.

9.0 Remedial Action Plan

Based on the findings of the Phase II ESA and the understanding that the Site will be redeveloped for residential purposes, remediation and/or risk assessment is required to address the identified soil and groundwater contamination. The soil remediation/risk assessment work will be completed in accordance with Ontario Regulation 153/04 to facilitate the filing of a Record of Site Condition for the Site. In addition, further characterization of the soil stockpile will be completed to facilitate off-site disposal/reuse options. Characterization of the soil stockpile will be completed in accordance with the Rules under the Excess Soil Regulation (Ontario Regulation 406/19).

10.0 Closure

We trust that the above information meets your present needs. Please do not hesitate to contact us if you have any questions or comments.

Sincerely,

BlueFrog Environmental Consulting Inc.

Report prepared by:



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Environmental Engineer-In-Training
cmacsween@bluefrogconsulting.ca
905.380.3860

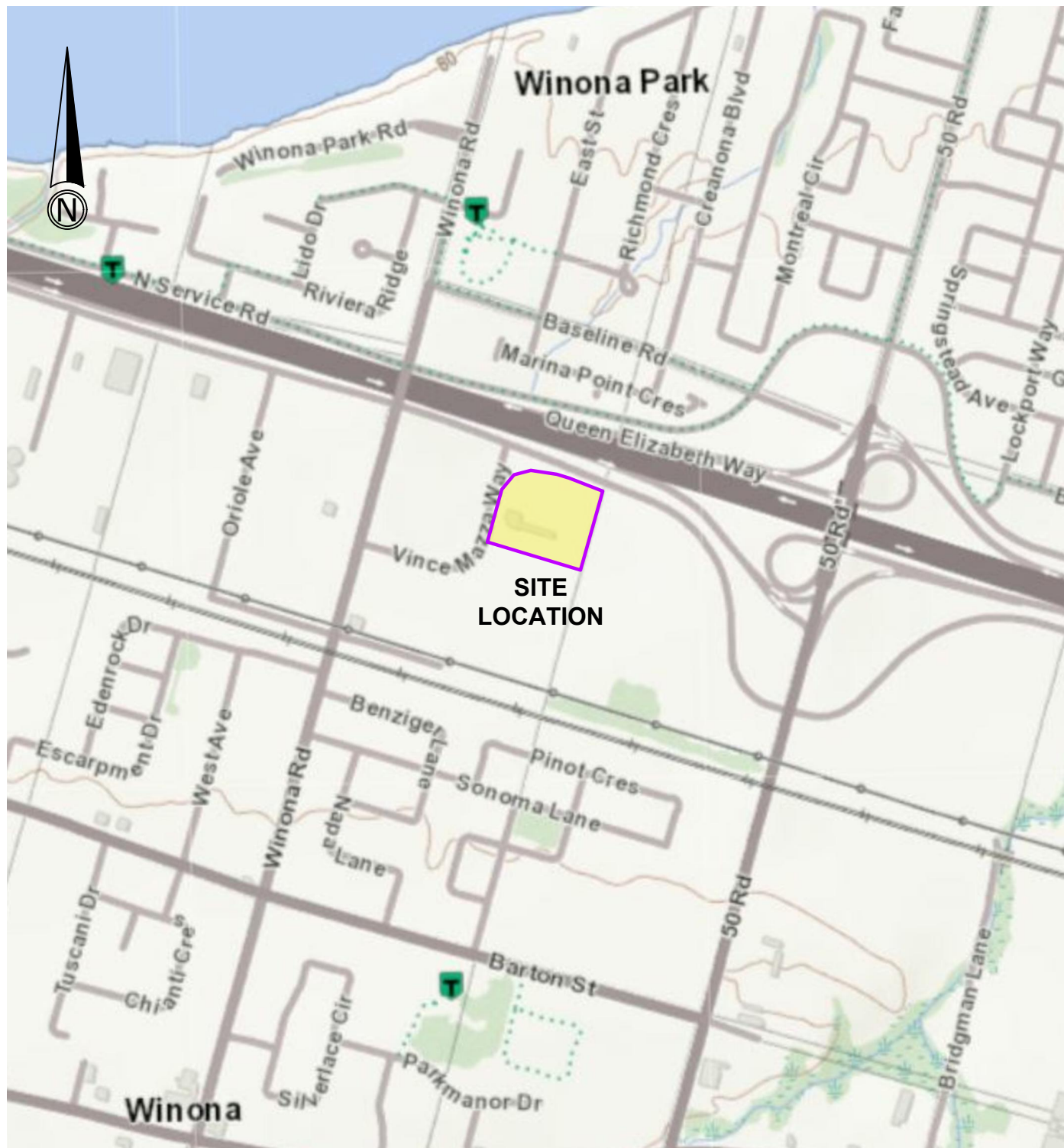
Report Reviewed by:



Oshin Gharabegian, P. Geo., QP_{ESA}
Senior Project Director
ogharabegian@bluefrogconsulting.ca
416.579.2545

Distribution: Addressee

Figures



MAP REFERENCE: Ontario Ministry of Natural Resources and Forestry

0 100 200 400m
Scale 1 : 10 000



BlueFrog
Environmental Consulting Inc.

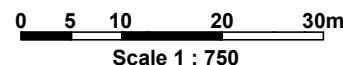
SITE LOCATION MAP

1310 SOUTH SERVICE ROAD,
HAMILTON, ONTARIO

0138-001.02

JUNE 2022

FIGURE 1



LEGEND

- SITE BOUNDARY
- PROPERTY BOUNDARY
- BUILDING FOOTPRINT
- FORMER BUILDING FOOTPRINT
- BOREHOLE
 - BH101, BH102, BH104 AND BH108 TO BH111 ADVANCED BY BLUEFROG (2022)
 - BH21-2 TO BH21-5 ADVANCED BY IRL (2021)
 - BH5 AND BH9 ADVANCED BY TERRAPROBE (2014)
- MONITORING WELL
 - MW103, MW105 TO MW107 AND MW112 TO MW114 INSTALLED BY BLUEFROG (2022)
 - MW21-1 AND MW21-6 TO MW21-8 INSTALLED BY IRL (2021)
 - MW0, MW1, MW3, MW4 AND MW6 TO MW8 INSTALLED BY TERRAPROBE (2014)
 - BH201 TO BH204, BH302 TO BH304, BH306 AND BH401 INSTALLED BY OTHERS
- STOCKPILE SAMPLE
 - SP1 TO SP6 BY BLUEFROG (2022)
- OIL WATER SEPARATOR
- FIRE HYDRANT
- ASPHALT
- CONCRETE
- DIRT / GRAVEL
- GRASS / BUSH

NOTES:

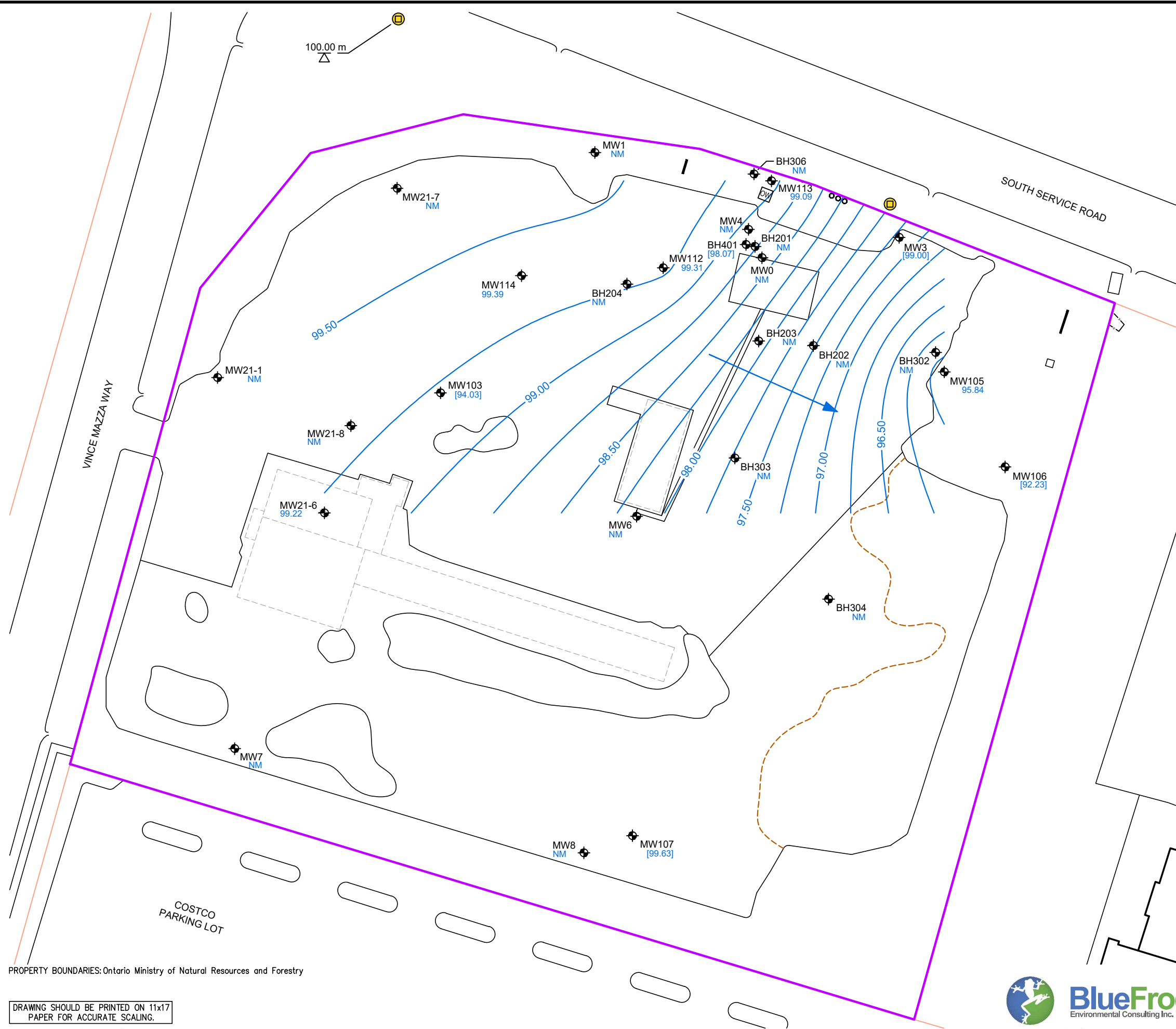
LOCATIONS ARE APPROXIMATE.

SITE PLAN		
1310 SOUTH SERVICE ROAD, HAMILTON, ONTARIO		
0138-001.02	JUNE 2022	FIGURE 2



PROPERTY BOUNDARIES: Ontario Ministry of Natural Resources and Forestry

DRAWING SHOULD BE PRINTED ON 11x17
PAPER FOR ACCURATE SCALING.



- LEGEND**
- SITE BOUNDARY
 - PROPERTY BOUNDARY
 - BUILDING FOOTPRINT
 - FORMER BUILDING FOOTPRINT
 - MONITORING WELL
 - MW103, MW105 TO MW107 AND MW112 TO MW114 INSTALLED BY BLUEFROG (2022)
 - MW21-1 AND MW21-6 TO MW21-8 INSTALLED BY IRL (2021)
 - MW0, MW1, MW3, MW4 AND MW6 TO MW8 INSTALLED BY TERRAPROBE (2014)
 - BH201 TO BH204, BH302 TO BH304, BH306 AND BH401 INSTALLED BY OTHERS
 - OIL WATER SEPARATOR
 - FIRE HYDRANT
 - 100.00 m BENCHMARK
 - 95.84 GROUNDWATER ELEVATION (m) RELATIVE TO LOCAL BENCHMARK
 - [92.23] NOT USED IN CONTOURING
 - NM NOT MONITORED
 - 99.00 GROUNDWATER ELEVATION CONTOUR (m) RELATIVE TO LOCAL BENCHMARK
 - INTERPRETED GROUNDWATER FLOW DIRECTION

NOTES:

LOCATIONS ARE APPROXIMATE.

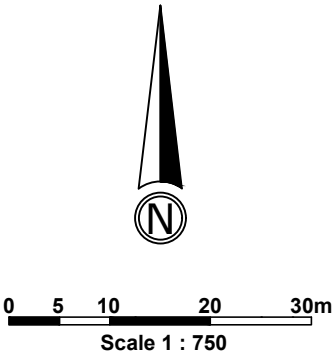
BENCHMARK IS THE FIRE HYDRANT LOCATED NORTHEAST OF THE SITE ALONG SOUTH SERVICE ROAD WITH AN ASSIGNED ELEVATION OF 100.00 m.

ELEVATION OF POTENTIOMETRIC SURFACE - MAY 06, 2022 1310 SOUTH SERVICE ROAD, HAMILTON, ONTARIO		
0138-001.02	JUNE 2022	FIGURE 3

PROPERTY BOUNDARIES: Ontario Ministry of Natural Resources and Forestry

DRAWING SHOULD BE PRINTED ON 11x17
PAPER FOR ACCURATE SCALING.

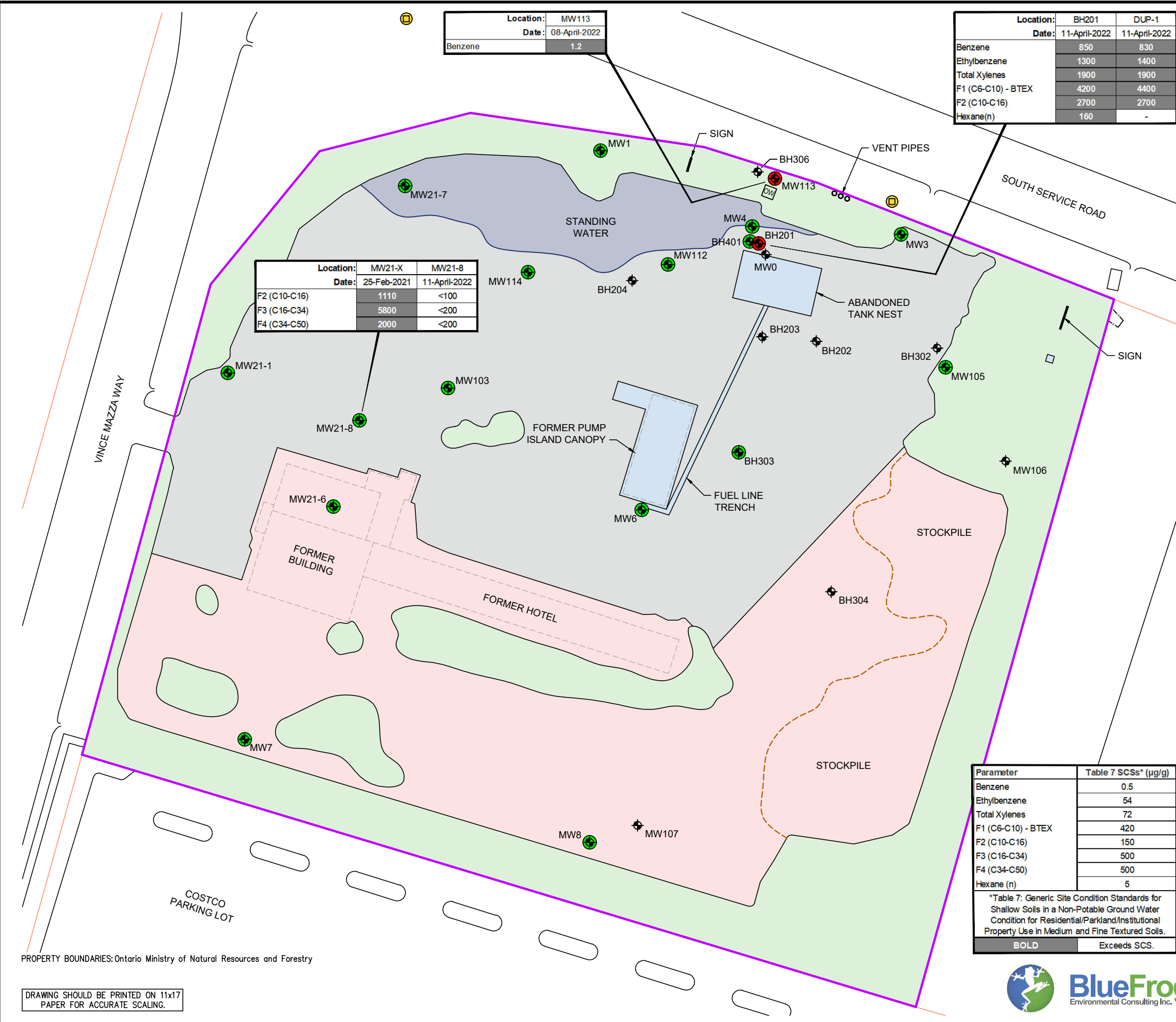
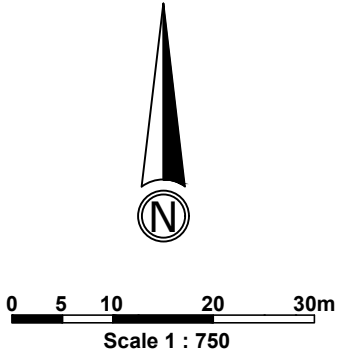




- LEGEND**
- SITE BOUNDARY
 - PROPERTY BOUNDARY
 - BUILDING FOOTPRINT
 - FORMER BUILDING FOOTPRINT
 - BOREHOLE
 - BH101, BH102, BH104 AND BH108 TO BH111 ADVANCED BY BLUEFROG (2022)
 - BH21-2 TO BH21-5 ADVANCED BY IRL (2021)
 - BH5 AND BH9 ADVANCED BY TERRAPROBE (2014)
 - MONITORING WELL
 - MW103, MW105 TO MW107 AND MW112 TO MW114 INSTALLED BY BLUEFROG (2022)
 - MW21-1 AND MW21-6 TO MW21-8 INSTALLED BY IRL (2021)
 - MW0, MW1, MW3, MW4 AND MW6 TO MW8 INSTALLED BY TERRAPROBE (2014)
 - BH201 TO BH204, BH302 TO BH304, BH306 AND BH401 INSTALLED BY OTHERS
 - STOCKPILE SAMPLE
 - SP1 TO SP6 BY BLUEFROG (2022)
 - OIL WATER SEPARATOR
 - FIRE HYDRANT
 - SOIL ANALYTICAL RESULTS FOR ONE OR MORE ANALYZED PARAMETER EXCEED THE APPLICABLE STANDARD
 - SOIL ANALYTICAL RESULTS FOR ALL ANALYZED PARAMETERS MEET THE APPLICABLE STANDARD

NOTES:
LOCATIONS ARE APPROXIMATE.

SOIL ANALYTICAL RESULTS
1310 SOUTH SERVICE ROAD,
HAMILTON, ONTARIO



- LEGEND**
- SITE BOUNDARY
 - PROPERTY BOUNDARY
 - BUILDING FOOTPRINT
 - FORMER BUILDING FOOTPRINT
 - MONITORING WELL
 - MW103, MW105 TO MW107 AND MW112 TO MW114 INSTALLED BY BLUEFROG (2022)
 - MW21-1 AND MW21-6 TO MW21-8 INSTALLED BY IRL (2021)
 - MW0, MW1, MW3, MW4 AND MW6 TO MW8 INSTALLED BY TERRAPROBE (2014)
 - BH201 TO BH204, BH302 TO BH304, BH306 AND BH401 INSTALLED BY OTHERS
 - OIL WATER SEPARATOR
 - FIRE HYDRANT
 - GROUNDWATER ANALYTICAL RESULTS FOR ONE OR MORE ANALYZED PARAMETER EXCEED THE APPLICABLE STANDARD
 - GROUNDWATER ANALYTICAL RESULTS FOR ALL ANALYZED PARAMETERS MEET THE APPLICABLE STANDARD

NOTES:
LOCATIONS ARE APPROXIMATE.

Parameter	Table 7 SCSs* (µg/g)
Benzene	0.5
Ethylbenzene	54
Total Xylenes	72
F1 (C6-C10) - BTEX	420
F2 (C10-C16)	150
F3 (C16-C34)	500
F4 (C34-C50)	500
Hexane (n)	5
*Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.	
BOLD	Exceeds SCS.

GROUNDWATER ANALYTICAL RESULTS
1310 SOUTH SERVICE ROAD,
HAMILTON, ONTARIO



Tables

Table 1: Groundwater Monitoring Well Details and Results

Assessment Location	Top of Pipe Elevation ¹ (m)	Ground Surface Elevation ¹ (m)	Screen Interval (mbgs)	Date (yyyy/mm/dd)	Subsurface Vapour Concentration ²		Free Product Thickness (mm)	Potentiometric Depth (mbgs)	Potentiometric Elevation ¹ (m)
					(CV)	(OV)			
MW103	100.60	99.67	4.6 - 7.6	2022-04-11	200ppm	ND	ND	7.21	92.47
				2022-04-22	NM	NM	ND	6.57	93.10
				2022-05-06	0	1ppm	ND	5.64	94.03
				2022-05-19	NM	NM	ND	4.95	94.73
				2022-06-02	NM	NM	ND	3.89	95.79
MW105	100.34	99.40	1.5 - 4.6	2022-04-11	29%LEL	2ppm	DRY	DRY	DRY
				2022-04-22	NM	NM	ND	4.29	95.11
				2022-05-06	0	3ppm	ND	3.55	95.84
				2022-05-19	NM	NM	ND	3.74	95.66
				2022-06-02	NM	NM	ND	3.00	96.40
MW106	100.10	99.23	4.6 - 7.6	2022-04-11	2%LEL	ND	DRY	DRY	DRY
				2022-04-22	NM	NM	ND	7.60	91.63
				2022-05-06	0	2ppm	ND	7.00	92.23
				2022-05-19	NM	NM	ND	6.14	93.09
				2022-06-02	NM	NM	ND	5.51	93.71
MW107	101.20	100.37	4.6 - 7.6	2022-04-11	10ppm	ND	ND	0.69	99.68 *
				2022-04-22	NM	NM	ND	0.69	99.68 *
				2022-05-06	0	2ppm	ND	0.74	99.63 *
				2022-05-19	NM	NM	ND	0.60	99.77 *
				2022-06-02	NM	NM	ND	0.71	99.66 *
MW112	100.21	99.31	1.5 - 4.6	2022-04-11	1%LEL	ND	ND	0.05	99.26 *
				2022-04-22	NM	NM	ND	0.07	99.24 *
				2022-05-06	85ppm	0ppm	ND	0.00	99.31 *
				2022-05-19	NM	NM	ND	0.11	99.20 *
				2022-06-02	NM	NM	ND	0.18	99.13 *
MW113	100.41	99.48	1.5 - 4.6	2022-04-11	2%LEL	3ppm	ND	2.94	96.54
				2022-04-22	NM	NM	ND	1.13	98.36 *
				2022-05-06	0	1ppm	ND	0.39	99.09 *
				2022-05-19	NM	NM	ND	0.46	99.02 *
				2022-06-02	NM	NM	ND	0.55	98.93 *

Assessment Location	Top of Pipe Elevation ¹ (m)	Ground Surface Elevation ¹ (m)	Screen Interval (mbgs)	Date (yyyy/mm/dd)	Subsurface Vapour Concentration ²		Free Product Thickness (mm)	Potentiometric Depth (mbgs)	Potentiometric Elevation ¹ (m)
					(CV)	(OV)			
MW114	100.25	99.35	1.5 - 4.6	2022-04-11	ND	ND	ND	0.10	99.25 *
				2022-04-22	NM	NM	ND	0.08	99.27 *
				2022-05-06	0	0	ND	-0.04	99.39 *
				2022-05-19	NM	NM	ND	0.02	99.33 *
				2022-06-02	NM	NM	ND	0.05	99.31 *
MW21-8			1.5 - 4.5	2022-04-11	NM	NM	ND	1.58	*
				2022-04-22	NM	NM	ND	1.63	
				2022-05-06	5ppm	0	ND	1.56	*
				2022-05-19	NM	NM	ND	1.65	
				2022-06-02	NM	NM	ND	1.42	*
BH201				2022-04-11	2%LEL	280ppm	ND	1.35	
				2022-04-22	NM	NM	ND	1.98	
				2022-05-06	2% LEL	380ppm	ND	1.50	
				2022-05-19	NM	NM	ND	1.39	
				2022-06-02	NM	NM	ND	1.32	
BH401	100.149	99.268		2022-04-11	ND	2ppm	ND	1.20	98.07
				2022-04-22	NM	NM	ND	1.82	97.45
				2022-05-06	0	0	ND	1.19	98.07
				2022-05-19	NM	NM	ND	1.22	98.05
				2022-06-02	NM	NM	ND	1.32	97.94
BH303				2022-04-11	ND	ND	ND	1.56	
				2022-04-22	NM	NM	ND	3.05	
				2022-05-06	15ppm	24ppm	ND	2.49	
				2022-05-19	NM	NM	ND	2.15	
				2022-06-02	NM	NM	ND	1.88	

NOTES:

- * - Water level above top of screen
- CV - Combustible vapours
- mbgs- metres below ground surface
- ND - Not detected
- NM - Well not monitored
- 1 - Elevation data provided by others, relative to a geodetic benchmark or Elevation relative to a local benchmark of 100 m
- 2 - ppmv unless otherwise indicated

Table 2a: Soil Analytical Results

Sample Location:	MECP ¹ Table 7 ²	MW103	MW105	BH110	BH110	BH111	BH111	BH111	MW112	MW112	DUP-1	MW113	MW114
Sample ID:		MW103-1.5-2.1	MW105-1.5-2.1	BH110-0.8-1.3	BH110-3.0-3.7	BH111-0.8-1.3	BH111-1.5-2.1	BH111-3.0-3.7	MW112-1.5-2.1	MW112-5.3-5.9	DUP-1	MW113-1.5-2.1	MW114-2.3-2.9
Sampling Date (yyyy-mm-dd):		2022-03-31	2022-03-31	2022-04-04	2022-04-04	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05
Sample Depth Interval (m):		1.5-2.1	1.5-2.1	0.8-1.3	3.0-3.7	0.8-1.3	1.5-2.1	3.0-3.7	1.5-2.1	5.3-5.9	-	1.5-2.1	2.3-2.9
BTEX													
Benzene	0.21	<0.020	<0.0060	<0.0060	<0.020	8.4	2.9	<0.020	<0.0060	<0.0060	<0.020	<0.0060	<0.0060
Toluene	2.3	<0.020	<0.020	<0.020	<0.020	12	0.083	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	2	<0.020	<0.010	3.3	<0.020	13	1.2	<0.020	<0.010	<0.010	<0.020	<0.010	<0.010
Total Xylenes	3.1	<0.040	<0.020	3.7	<0.040	47	0.35	<0.040	<0.020	<0.020	<0.040	<0.020	<0.020
Petroleum Hydrocarbons (PHCs)													
F1 (C6-C10) - BTEX	55	<10	<10	58	<10	310	<10	-	<10	<10	<10	<10	<10
F2 (C10-C16)	98	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10
F3 (C16-C34)	300	<50	<50	<50	<50	<50	<50	-	150	<50	<50	<50	<50
F4 (C34-C50)	2800	<50	<50	<50	<50	<50	<50	-	320	<50	<50	<50	<50
Reached Baseline at C50	NV	YES	YES	YES	YES	YES	YES	-	NO	YES	YES	YES	YES
F4 Gravimetric	2800	-	-	-	-	-	-	-	1000	-	-	-	-

- BOLD**Result exceeding the applicable standards.
- BOLD**Detection limit exceeds the applicable standards.
1. Standards refers to Ministry of the Environment, Conservation and Parks (MECP)
"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the
Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.

2. Ministry of the Environment, Conservation and Parks Table 7: Generic Site
Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.

3. All units are µg/g unless otherwise specified.

Table 2a: Soil Analytical Results

Sample Location:	MECP ¹ Table 7 ²	SP1	SP2	SP3	SP4	SP5	SP6
Sample ID:		SP1	SP2	SP3	SP4	SP5	SP6
Sampling Date (yyyy-mm-dd):		05-April-2022	05-April-2022	05-April-2022	05-April-2022	05-April-2022	05-April-2022
Sample Depth Interval (m):		-	-	-	-	-	-
BTEX							
Benzene	0.21	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Toluene	2.3	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total Xylenes	3.1	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Petroleum Hydrocarbons (PHCs)							
F1 (C6-C10) - BTEX	55	<10	<10	<10	<10	<10	<10
F2 (C10-C16)	98	<10	<10	<10	<10	<10	<10
F3 (C16-C34)	300	97	<50	<50	<50	<50	<50
F4 (C34-C50)	2800	200	<50	<50	<50	<50	59
Reached Baseline at C50	NV	YES	YES	YES	YES	YES	YES
F4 Gravimetric	2800	-	-	-	-	-	-

- BOLD**Result exceeding the applicable standards.
- BOLD**Detection limit exceeds the applicable standards.
1. Standards refers to Ministry of the Environment, Conservation and Parks (MECP)
"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the
Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.

2. Ministry of the Environment, Conservation and Parks Table 7: Generic Site
Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.

3. All units are µg/g unless otherwise specified.

Table 2b: Soil Analytical Results

Sample Location:	MECP ¹ Table 7 ²	MW105	BH110	BH111	BH111	MW112	MW112	MW113	MW114
Sample ID:		MW105-1.5-2.1	BH110-0.8-1.3	BH111-0.8-1.3	BH111-1.5-2.1	MW112-1.5-2.1	MW112-5.3-5.9	MW113-1.5-2.1	MW114-2.3-2.9
Sample Depth Interval (m):		1.5-2.1	0.8-1.3	0.8-1.3	1.5-2.1	1.5-2.1	5.3-5.9	1.5-2.1	2.3-2.9
Sampling Date (yyyy-mm-dd):		2022-03-31	2022-04-04	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05
Volatile Organic Compounds (VOCs)									
Acetone	16	<0.49	<0.49	<1.5	<0.49	<0.49	<0.49	<0.49	<0.49
Benzene	0.21	<0.0060	<0.0060	8.4	2.9	<0.0060	<0.0060	<0.0060	<0.0060
Bromodichloromethane	13	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Bromoform	0.27	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Bromomethane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Carbon Tetrachloride	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chlorobenzene	2.4	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chloroform	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	9.4	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,2-Dichlorobenzene	3.4	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,3-Dichlorobenzene	4.8	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,4-Dichlorobenzene	0.083	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1-Dichloroethane	3.5	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,2-Dichloroethane	0.05	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
1,1-Dichloroethylene	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Cis-1,2-Dichloroethylene	3.4	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Trans-1,2-Dichloroethylene	0.084	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,2-Dichloropropane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Cis-1,3-Dichloropropylene	NV	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Trans-1,3-Dichloropropylene	NV	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Ethylbenzene	2	<0.010	3.3	13	1.2	<0.010	<0.010	<0.010	<0.010
Ethylene Dibromide	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	16	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Methylene Chloride	0.1	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
Methyl Isobutyl Ketone	1.7	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Methyl-t-Butyl Ether	0.75	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Styrene	0.7	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1,1,2-Tetrachloroethane	0.058	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1,2,2-Tetrachloroethane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Toluene	2.3	<0.020	<0.020	12	0.083	<0.020	<0.020	<0.020	<0.020
Tetrachloroethylene	0.28	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1,1-Trichloroethane	0.38	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1,2-Trichloroethane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	0.061	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	0.02	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019
m-Xylene & p-Xylene	NV	<0.020	3.7	45	0.29	<0.020	<0.020	<0.020	<0.020
o-Xylene	NV	<0.020	<0.020	2.1	0.057	<0.020	<0.020	<0.020	<0.020
Total Xylenes	3.1	<0.020	3.7	47	0.35	<0.020	<0.020	<0.020	<0.020
Dichlorodifluoromethane	16	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Hexane(n)	2.8	<0.040	0.1	8.3	0.072	<0.040	<0.040	<0.040	<0.040
Trichlorofluoromethane	4	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,3-Dichloropropene (cis + trans)	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

- BOLD**
- BOLD**
- Result exceeding the applicable standards.
- Detection limit exceeds the applicable standards.
1. Standards refers to Ministry of the Environment, Conservation and Parks (MECP)
"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the
Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.

2. Ministry of the Environment, Conservation and Parks Table 7: Generic Site
Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.

3. All units are µg/g unless otherwise specified.

Table 2c: Soil Analytical Results

Sample Location:	MECP ¹ Table 7 ²	MW113	SP1	SP2	SP3	SP4	SP5	SP6
Sample ID:		MW113-1.5-2.2	SP1	SP2	SP3	SP4	SP5	SP6
Sample Depth Interval (m):		1.5-2.1	-	-	-	-	-	-
Sampling Date (yyyy-mm-dd):		2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05
Polycyclic Aromatic Hydrocarbons (PAHs)								
Acenaphthene	7.9	<0.0050	0.0062	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthylene	0.15	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Anthracene	0.67	<0.0050	0.02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(a)anthracene	0.5	<0.0050	0.055	<0.0050	<0.0050	<0.0050	0.012	<0.0050
Benzo(a)pyrene	0.3	<0.0050	0.054	<0.0050	<0.0050	<0.0050	0.01	0.0055
Benzo(b/j)fluoranthene	0.78	<0.0050	0.079	<0.0050	<0.0050	<0.0050	0.014	0.0078
Benzo(ghi)perylene	6.6	<0.0050	0.05	<0.0050	<0.0050	<0.0050	0.0089	0.005
Benzo(k)fluoranthene	0.78	<0.0050	0.024	<0.0050	<0.0050	<0.0050	0.0051	<0.0050
Chrysene	7	<0.0050	0.064	<0.0050	<0.0050	<0.0050	0.0096	0.005
Dibenzo(a,h)anthracene	0.1	<0.0050	0.008	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	0.69	<0.0050	0.13	<0.0050	0.0053	<0.0050	0.026	0.011
Fluorene	62	<0.0050	0.0079	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Indeno(1,2,3-cd)pyrene	0.38	<0.0050	0.047	<0.0050	<0.0050	<0.0050	0.0075	<0.0050
1-Methylnaphthalene ⁴	0.99	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2-Methylnaphthalene ⁴	0.99	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Methylnaphthalene, 2-(1-) ⁴	0.99	-	-	-	-	-	-	-
Naphthalene	0.6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Phenanthrene	6.2	<0.0050	0.072	<0.0050	<0.0050	<0.0050	0.01	<0.0050
Pyrene	78	<0.0050	0.11	<0.0050	<0.0050	<0.0050	0.02	0.0083

- BOLD**
- Result exceeding the applicable standards.
- BOLD**
- Detection limit exceeds the applicable standards.
1. Standards refers to Ministry of the Environment, Conservation and Parks (MECP)
"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the
Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.

2. Ministry of the Environment, Conservation and Parks Table 7: Generic Site
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3. All units are µg/g unless otherwise specified.

4. The methylnaphthalene standards are applicable to both
1-methylnaphthalene and 2-methylnaphthalene, with the provision that if both
are detected the sum of the two must not exceed the standard.

Table 2d: Soil Analytical Results

Sample Location:	MECP ¹ Table 7 ²	MW105	MW107	MW112	MW112	MW113	MW114	SP1	SP2	SP3	SP4	SP5	SP6
Sample ID:		MW105-1.5-2.1	MW107-1.5-2.1	MW112-1.5-2.1	MW112-5.3-5.9	MW113-1.5-2.1	MW114-2.3-2.9	SP1	SP2	SP3	SP4	SP5	SP6
Sample Depth Interval (m):		1.5-2.1	1.5-2.1	1.5-2.1	5.3-3.9	1.5-2.1	2.3-2.9	-	-	-	-	-	-
Sampling Date (yyyy-mm-dd):		2022-03-31	2022-03-31	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05	2022-04-05
Metals													
Antimony	7.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.23	0.45	0.4	0.2	0.24	0.45
Arsenic	18	3.7	2.7	2.3	4.8	5.8	3.9	5.8	3.5	3.6	4.8	4.4	4.4
Barium	390	190	77	30	65	97	83	97	120	120	100	92	400
Beryllium	4	0.63	0.41	<0.20	0.55	0.7	0.66	0.86	0.93	1.1	0.78	0.75	1.3
Boron (Total)	1.5	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	1.2	0.13	<0.10	0.31	0.14	<0.10	<0.10	0.21	0.16	0.14	0.16	0.24	0.17
Chromium	160	22	12	12	18	22	21	26	25	26	23	20	30
Cobalt	22	12	6.8	3.1	11	17	12	13	14	15	13	13	15
Copper	140	29	18	19	28	36	34	33	9.1	10	26	19	10
Lead	120	13	6.3	18	7.9	18	14	20	9.9	9.5	14	15	10
Molybdenum	6.9	0.51	<0.50	0.78	<0.50	<0.50	0.53	0.58	1.1	1.1	0.91	0.78	1.2
Nickel	100	26	15	6.7	23	32	27	27	31	31	27	28	42
Selenium	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	1	0.12	0.06	0.056	0.086	0.14	0.082	0.16	0.1	0.13	0.13	0.085	0.14
Vanadium	86	29	19	12	24	29	27	34	28	30	29	25	32
Zinc	340	69	37	120	92	65	64	210	67	69	76	100	79
Uranium	23	0.68	0.57	0.39	0.51	0.74	0.64	0.58	1.3	1.9	1.2	1.1	3.7
Electrical Conductivity (ms/cm)	0.7	-	-	-	-	-	-	0.51	1.7	1.6	1.1	1.2	0.68
Sodium Adsorption Ratio	5	-	-	-	-	-	-	0.48	0.68	0.7	0.47	0.47	1.3

BOLD Result exceeding the applicable standards.
BOLD Detection limit exceeds the applicable standards.

- Standards refers to Ministry of the Environment, Conservation and Parks (MECP)
"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.
- Ministry of the Environment, Conservation and Parks Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.
- All units are µg/g unless otherwise specified.

Table 3a: Groundwater Analytical Results

Sample Location:	MECP ¹ Table 7 ²	MW112	MW113	MW114	MW21-8	BH401	BH201		BH303	MW105
Sample ID:		MW112	MW113	MW114	MW21-8	BH401	BH201	DUP-1	BH303	MW105
Sampling Date (yyyy-mm-dd):		2022-04-08	2022-04-08	2022-04-08	2022-04-11	2022-04-11	2022-04-11	2022-04-11	2022-04-11	2022-04-11
BTEX										
Benzene	0.5	0.32	1.2	<0.17	<0.17	<0.17	850	830	<0.17	<0.17
Toluene	320	0.39	0.63	<0.20	<0.20	<0.20	37	34	<0.20	<0.20
Ethylbenzene	54	<0.20	<0.20	<0.20	<0.20	<0.20	1300	1400	<0.20	<0.20
Total Xylenes	72	<0.20	1	<0.20	<0.20	<0.20	1900	1900	<0.20	<0.20
Petroleum Hydrocarbons (PHCs)										
F1 (C6-C10) - BTEX	420	<25	<25	<25	<25	<25	4200	4400	<25	<25
F2 (C10-C16)	150	<100	<100	<100	<100	<100	2700	2700	<100	<100
F3 (C16-C34)	500	<200	<200	240	<200	<200	500	450	<200	<200
F4 (C34-C50)	500	<200	<200	<200	<200	<200	<200	<200	<200	<200
Reached Baseline at C50	NV	YES	YES	YES	YES	YES	YES	YES	YES	YES

- BOLD**
- Result exceeding the applicable standards.
- BOLD**
- Detection limit exceeds the applicable standards.
-
1. Standards refers to Ministry of the Environment, Conservation and Parks (MECP)
"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the
Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.
2. Ministry of the Environment, Conservation and Parks Table 7: Generic Site
Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.
3. All units are µg/g unless otherwise specified.

Table 3b: Groundwater Analytical Results

Sample Location:	MECP ¹ Table 7 ²	MW112	MW113	MW114	MW21-8	BH401	BH201	BH303	MW105
Sample ID:		MW112	MW113	MW114	MW21-8	BH401	BH201	BH303	MW105
Sampling Date (yyyy-mm-dd):		2022-04-08	2022-04-08	2022-04-08	2022-04-11	2022-04-11	2022-04-11	2022-04-11	2022-04-11
Volatile Organic Compounds (VOCs)									
Acetone	100000	<10	27	20	<10	<10	<60	<10	<10
Benzene	0.5	0.32	1.2	<0.17	<0.17	<0.17	850	<0.17	<0.17
Bromodichloromethane	67000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	140	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	65000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	7600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	11	<0.20	<0.20	<0.20	0.32	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cis-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trans-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	0.58	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cis-1,3-Dichloropropylene	NV	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Trans-1,3-Dichloropropylene	NV	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylbenzene	54	<0.20	<0.20	<0.20	<0.20	<0.20	1300	<0.20	<0.20
Ethylene Dibromide	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Ethyl Ketone	21000	<10	<10	<10	<10	<10	<10	<10	<10
Methylene Chloride	26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl Isobutyl Ketone	5200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-t-Butyl Ether	15	<0.50	<0.50	<0.50	<0.50	<0.50	1	<0.50	<0.50
Styrene	43	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	320	0.39	0.63	<0.20	<0.20	<0.20	37	<0.20	<0.20
Tetrachloroethylene	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	23	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Chloride	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m-Xylene & p-Xylene	NV	<0.20	0.56	<0.20	<0.20	<0.20	1800	<0.20	<0.20
o-Xylene	NV	<0.20	0.45	<0.20	<0.20	<0.20	84	<0.20	<0.20
Total Xylenes	72	<0.20	1	<0.20	<0.20	<0.20	1900	<0.20	<0.20
Dichlorodifluoromethane	3500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexane(n)	5	<1.0	<1.0	<1.0	<1.0	<1.0	160	<1.0	<1.0
Trichlorofluoromethane	2000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropene (cis + trans)	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

- BOLD**Result exceeding the applicable standards.
- BOLD**Detection limit exceeds the applicable standards.
1. Standards refers to Ministry of the Environment, Conservation and Parks (MECP)
"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the
Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.

2. Ministry of the Environment, Conservation and Parks Table 7: Generic Site
Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.

3. All units are µg/g unless otherwise specified.

Table 3c: Groundwater Analytical Results

Sample Location:	MECP ¹ Table 7 ²	MW112	MW113	MW114	MW105
Sample ID:		MW112	MW113	MW114	MW105
Sampling Date (yyyy-mm-dd):		2022-04-08	2022-04-08	2022-04-08	2022-05-06
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	17	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	1	<0.050	<0.050	<0.050	<0.050
Anthracene	1	<0.050	<0.050	<0.050	<0.050
Benzo(a)anthracene	1.8	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	0.81	<0.0090	<0.0090	<0.0090	<0.0090
Benzo(b)fluoranthene	0.75	<0.050	<0.050	<0.050	<0.050
Benzo(ghi)perylene	0.2	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	0.4	<0.050	<0.050	<0.050	<0.050
Chrysene	0.7	<0.050	<0.050	<0.050	<0.050
Dibenzo(a,h)anthracene	0.4	<0.050	<0.050	<0.050	<0.050
Fluoranthene	44	<0.050	<0.050	<0.050	<0.050
Fluorene	290	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	0.2	<0.050	<0.050	<0.050	<0.050
1-Methylnaphthalene ⁴	1500	<0.050	<0.050	<0.050	<0.050
2-Methylnaphthalene ⁴	1500	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-(1-) ⁴	1500	-	-	-	-
Naphthalene	7	<0.050	<0.050	<0.050	<0.050
Phenanthrene	380	<0.030	<0.030	0.11	<0.030
Pyrene	5.7	<0.050	<0.050	<0.050	<0.050

BOLD

Result exceeding the applicable standards.

BOLD

Detection limit exceeds the applicable standards.

- Standards refers to Ministry of the Environment, Conservation and Parks (MECP) "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.
- Ministry of the Environment, Conservation and Parks Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.
- All units are µg/g unless otherwise specified.
- The methylnaphthalene standards are applicable to both 1-methylnaphthalene and 2-methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.

Table 3d: Groundwater Analytical Results

Sample Location:	MECP ¹ Table 7 ²	MW112	MW113	MW114	MW21-8	BH401	BH201	BH303	MW105
Sample ID:		MW112	MW113	MW114	MW21-8	BH401	BH201	BH303	MW105
Sampling Date (yyyy-mm-dd):		2022-04-08	2022-04-08	2022-04-08	2022-04-11	2022-04-11	2022-04-11	2022-04-11	2022-05-06
Metals									
Antimony	16000	<0.50	<0.50	<0.50	<0.50	0.63	<0.50	<0.50	0.71
Arsenic	1500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4
Barium	23000	21	54	150	21	26	470	25	38
Beryllium	53	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Boron (Total)	36000	47	110	130	300	6200	260	440	450
Cadmium	2.1	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Chromium	640	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	52	1.1	1.2	1.6	4.8	<0.50	<0.50	<0.50	93
Copper	69	2.2	1.8	1.3	1.4	1.3	<0.90	2.4	91
Lead	20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	94
Molybdenum	7300	3.6	5.4	7.4	2.1	41	<0.50	4.5	98
Nickel	390	2.3	3.4	3.6	7.4	<1.0	2.4	1.5	90
Sodium	1800000	53000	130000	170000	530000	990000	430000	160000	NC
Selenium	50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	98
Silver	1.2	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	97
Thallium	400	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	100
Vanadium	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	95
Zinc	890	10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	93
Uranium	330	0.8	6.5	9.5	9.2	1.2	<0.10	10	18

- BOLD

BOLD
- Result exceeding the applicable standards.

Detection limit exceeds the applicable standards.

1. Standards refers to Ministry of the Environment, Conservation and Parks (MECP)
"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the
Environmental Protection Act" March 9, 2004, amended as of April 15, 2011.

2. Ministry of the Environment, Conservation and Parks Table 7: Generic Site
Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
for Residential/Parkland/Institutional Property Use in Medium and Fine Textured Soils.

3. All units are µg/g unless otherwise specified.

Appendix A

Borehole Logs

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02					BOREHOLE NO: BH101				
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:n/a					START DATE:3/30/2022				
CLIENT: Jennum Properties Inc.					GRADE ELEV.:99.90m					COMPLETION DATE:3/30/2022				
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.										PAGE 1 OF 1				

Depth (m)	Water Level	DESCRIPTION	SYMBOL	SAMPLING				SAMPLE NAME / LAB ANALYSES	ORGANIC VAPOUR CONCENTRATION (ppmv)		COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)		COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)	COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft)	Water Level	
				NUMBER	SAMPLE TYPE	"N" VALUE	RECOVERY %		100	200	300	400						20
		SAND (Fill) - brown, some gravel, moist		1	SS	47	63										1	
		SAND (Fill) - grey, silty, moist (reworked native)															2	
1		CLAY - brown to grey, silty, trace gravel, moist		2	SS	26	67										3	
																	4	
																	5	
2				3	SS	25	79										6	
																	7	
				4	SS	21	79										8	
																	9	
3		- grey below 3.0m		5	SS	27	88										10	
																	11	
				6	SS	35	71										12	
4																	13	
																	14	
				7	SS	36	79										15	
5																	16	
																	17	
				8	SS	30	71										18	
6																	19	
																	20	
				9	SS	24	92										21	
7																	22	
																	23	
																	24	
																	25	
8				10	SS	22	88										26	
																	27	
																	28	
																	29	
9																	30	
																	31	
				11	SS	56	79										32	
10		SHALE - reddish-brown, weathered, damp															33	
																	34	
																	35	
																	36	
11				12	SS	71	71										37	
		END OF BOREHOLE AT 11.3m																

	LOGGED BY: CFM	EQUIPMENT: Mobile Rig B37	DAYLIGHTING: n/a
	REVIEWED BY: AD	METHOD: Hollow Stem Augering	WELL DIAMETER: n/a
	DRAFTED BY: AD	GAS METER TYPE: RKI Eagle 2	BOREHOLE DIAMETER: 225mm

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02					BOREHOLE NO: BH102				
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:n/a					START DATE:3/30/2022				
CLIENT: Jennum Properties Inc.					GRADE ELEV.:99.40m					COMPLETION DATE:3/30/2022				
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.										PAGE 1 OF 1				

Depth (m)	Water Level	DESCRIPTION		SYMBOL				SAMPLING				ORGANIC VAPOUR CONCENTRATION (ppmv)				COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)				COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft)	Water Level		
		STRATIGRAPHY		NUMBER	SAMPLE TYPE	"N" VALUE	RECOVERY %	SAMPLE NAME / LAB ANALYSES				100 200 300 400				20 40 60 80									
		ASPHALT																							
		GRAVEL (Fill) - grey, some sand, wet																							
		CLAY - mottled brown to brown, silty, trace gravel, moist																							
1				1	SS	6	54																		
				2	SS	20	88																		
				3	SS	22	75																		
2				4	SS	20	75																		
				5	SS	24	88																		
				6	SS	29	79																		
				7	SS	25	75																		
				8	SS	22	71																		
				9	SS	26	75																		
				10	SS	21	77																		
				11	SS	29	58																		
				12	SS	R	33																		
		END OF BOREHOLE AT 11.1m																							

	LOGGED BY: CFM	EQUIPMENT: Mobile Rig B37	DAYLIGHTING: n/a
	REVIEWED BY: AD	METHOD: Hollow Stem Augering	WELL DIAMETER: n/a
	DRAFTED BY: AD	GAS METER TYPE: RKI Eagle 2	BOREHOLE DIAMETER: 225mm

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment							REF. NO.:0138-001.02				BOREHOLE NO: MW103														
LOCATION:1310 South Service Road, Stoney Creek, Ontario							TPC ELEV.:100.60m				START DATE:3/31/2022														
CLIENT: Jennum Properties Inc.							GRADE ELEV.:99.67m				COMPLETION DATE:3/31/2022														
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.											PAGE 1 OF 1														
DESCRIPTION		SAMPLING					ORGANIC VAPOUR CONCENTRATION (ppmv)				COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)				COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)				COMMENTS AND MONITORING WELL NOTES		MONITORING WELL		Depth (ft)		
STRATIGRAPHY		SYMBOL	NUMBER	SAMPLE TYPE	"N" VALUE	RECOVERY %	SAMPLE NAME / LAB ANALYSES																		
ASPHALT																									
SAND (Fill) - brown, gravelly, moist			1	SS	15	42																			
CLAY - mottled brown to brown, silty, trace gravel, moist			2	SS	15	58																			
			3	SS	25	67	MW103-1.5-2.1/PHC F1-F4, VOCs, pH, GrainSize																		
- grey below 2.5m			4	SS	24	63																			
			5	SS	25	79																			
			6	SS	26	71																			
			7	SS	30	75																			
			8	SS	21	79																			
			9	SS	21	71																			
			10	SS	39	75																			
			11	SS	37	71																			
SHALE - reddish-brown, weathered, damp			12	SS	R	50																			
END OF BOREHOLE AT 10.9m																									
							LOGGED BY: CFM				EQUIPMENT: Mobile Rig B37				DAYLIGHTING: n/a										
							REVIEWED BY: AD				METHOD: Solid Stem Augering				WELL DIAMETER: 51mm										
							DRAFTED BY: AD				GAS METER TYPE: RKI Eagle 2				BOREHOLE DIAMETER: 100mm										

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02					BOREHOLE NO: BH104				
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:n/a					START DATE:3/31/2022				
CLIENT: Jennum Properties Inc.					GRADE ELEV.:99.67m					COMPLETION DATE:3/31/2022				
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.										PAGE 1 OF 1				

Depth (m)	Water Level	DESCRIPTION		SAMPLING				SAMPLE NAME / LAB ANALYSES	ORGANIC VAPOUR CONCENTRATION (ppmv)		COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)		COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)	COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft)	Water Level	
		STRATIGRAPHY	SYMBOL	NUMBER	SAMPLE TYPE	TN VALUE	RECOVERY %		100	200	300	400						20
		TOPSOIL - dark brown, moist		1	SS	4	63											
1		SAND - brown, silty, moist		2	SS	15	75											
		CLAY - mottled brown to brown, silty, trace gravel, moist		3	SS	27	66											
2				4	SS	23	79											
				5	SS	27	66											
3		- grey below 3.0m		6	SS	33	79											
				7	SS	23	63											
4				8	SS	25	71											
				9	SS	27	63											
5																		
6																		
7																		
8				10	SS	26	71											
9																		
10				11	SS	33	63											
11		SHALE - reddish-brown, weathered, damp		12	SS	75	63											
		END OF BOREHOLE AT 11.3m																

	LOGGED BY: CFM	EQUIPMENT: Mobile Rig B37	DAYLIGHTING: n/a
	REVIEWED BY: AD	METHOD: Solid Stem Augering	WELL DIAMETER: n/a
	DRAFTED BY: AD	GAS METER TYPE: RKI Eagle 2	BOREHOLE DIAMETER: 100mm

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02		BOREHOLE NO: MW105	
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:100.34m		START DATE:3/31/2022	
CLIENT: Jennum Properties Inc.					GRADE ELEV.:100.34m		COMPLETION DATE:3/31/2022	
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.							PAGE 1 OF 1	

Depth (m)	Water Level	DESCRIPTION		SAMPLING				ORGANIC VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)	COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft)	Water Level	
		STRATIGRAPHY	SYMBOL	NUMBER	SAMPLE TYPE	TN VALUE	RECOVERY %								SAMPLE NAME / LAB ANALYSES
		TOPSOIL - brown, wet		1	SS	9	50		ND					1	
		CLAY - mottled brown, silty, trace gravel, moist		2	SS	10	62		ND					2	
1														3	
				3	SS	18	62		ND					4	
2														5	
		- grey below 2.2m		4	SS	30	33		ND					6	
				5	SS	35	71		ND					7	
3														8	
				6	SS	18	58		ND					9	
4														10	
				7	SS	14	46		ND					11	
5														12	
				8	SS	22	63		ND					13	
6														14	
				9	SS	23	60		ND					15	
7														16	
				10	SS	33	50		ND					17	
8														18	
				11	SS	45	63		ND					19	
9														20	
														21	
10														22	
														23	
														24	
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														27	
														28	
														29	
														30	
														31	
														32	
														33	
														34	
														35	
		SHALE - reddish-brown, weathered, damp		12	SS	R	100		ND						
		END OF BOREHOLE AT 11.0m													

	LOGGED BY: CFM	EQUIPMENT: Mobile Rig B37	DAYLIGHTING: n/a
	REVIEWED BY: AD	METHOD: Solid Stem Augering	WELL DIAMETER: 51mm
	DRAFTED BY: AD	GAS METER TYPE: RKI Eagle 2	BOREHOLE DIAMETER: 100mm

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment							REF. NO.:0138-001.02				BOREHOLE NO: MW106								
LOCATION:1310 South Service Road, Stoney Creek, Ontario							TPC ELEV.:100.10m				START DATE:4/1/2022								
CLIENT: Jennum Properties Inc.							GRADE ELEV.:99.23m				COMPLETION DATE:4/1/2022								
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.											PAGE 1 OF 1								
Depth (m)		DESCRIPTION		SYMBOL		SAMPLING		ORGANIC VAPOUR CONCENTRATION (ppmv)		COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)		COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)		COMMENTS AND MONITORING WELL NOTES		MONITORING WELL		Depth (ft)	
Water Level		STRATIGRAPHY		NUMBER		SAMPLE TYPE		"N" VALUE		RECOVERY %		SAMPLE NAME / LAB ANALYSES		100 200 300 400		20 40 60 80		Water Level	
		TOPSOIL - brown, moist CLAY - mottled brown to brown, silty, trace gravel, moist				1 SS 6		75						ND				1	
1						2 SS 20		100						10				2	
						3 SS 27		100						ND				3	
2						4 SS 26		79						ND				4	
		- grey below 2.9m				5 SS 39		79						15				5	
3						6 SS 22		79						25				6	
						7 SS 27		83						20				7	
4						8 SS 22		83						5				8	
						9 SS 22		79						15				9	
5						10 SS R		100						5				10	
						11 SS 71		79						ND				11	
6						12 SS 77		100						ND				12	
		SHALE - reddish-brown, weathered, damp																13	
7																		14	
																		15	
8																		16	
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9																		18	
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		END OF BOREHOLE AT 11.1m																23	
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BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02		BOREHOLE NO: MW107	
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:101.20m		START DATE:4/1/2022	
CLIENT: Jennum Properties Inc.					GRADE ELEV.:100.37m		COMPLETION DATE:4/1/2022	
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.							PAGE 1 OF 1	

Depth (m)	Water Level	DESCRIPTION		SAMPLING				ORGANIC VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)	COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft)	Water Level	
		STRATIGRAPHY	SYMBOL	NUMBER	SAMPLE TYPE	"N" VALUE	RECOVERY %								SAMPLE NAME / LAB ANALYSES
		SAND (FILL) - brown, trace Silt, Gravel, Asphalt, wet		1	SS	34	50								
		CLAY - mottled brown to brown, silty, trace gravel, moist		2	SS	8	79								
				3	SS	17	83								
				4	SS	37	83								
		- grey below 2.9m		5	SS	29	92								
				6	SS	32	100								
				7	SS	37	88								
				8	SS	31	83								
				9	SS	64	96								
		SHALE - reddish-brown, weathered, damp		10	SS	R	100								
				11	SS	R	100								
		END OF BOREHOLE AT 10.8m		12	SS	R	100								

	LOGGED BY: CFM REVIEWED BY: AD DRAFTED BY: AD	EQUIPMENT: Mobile Rig B37 METHOD: Solid Stem Augering GAS METER TYPE: RKI Eagle 2	DAYLIGHTING: n/a WELL DIAMETER: 51mm BOREHOLE DIAMETER: 200mm
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BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02					BOREHOLE NO: BH108				
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:n/a					START DATE:4/4/2022				
CLIENT: Jennum Properties Inc.					GRADE ELEV.:100.30m					COMPLETION DATE:4/4/2022				
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.										PAGE 1 OF 1				
DESCRIPTION		SAMPLING				ORGANIC VAPOUR CONCENTRATION (ppmv)		COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)		COMMENTS AND MONITORING WELL NOTES		MONITORING WELL		
STRATIGRAPHY		NUMBER	SAMPLE TYPE	"N" VALUE	RECOVERY %	SAMPLE NAME / LAB ANALYSES		COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)						
Depth (m) Water Level	GRAVEL (Fill) - grey, some sand, moist ASPHALT SAND (Fill) - brown, silty, trace Rootlets, Asphalt fragments, moist	1	SS	11	58	BH108-0.8-1.3/Grain Size, pH		100 200 300 400		20 40 60 80				
	CLAY - mottled brown to brown, silty, trace gravel, moist	2	SS	22	71			25		25				
	- grey below 2.1m	3	SS	25	79			ND		ND				
		4	SS	28	79									
		5	SS	27	79									
		6	SS	R	33									
		7	SS	24	63									
		8	SS	23	75									
		9	SS	24	96									
		10	SS	R	63									
		11	SS	R	38									
	SHALE - reddish-brown, weathered, damp													
	12	SS	R	38										
END OF BOREHOLE AT 10.8m														
		LOGGED BY: CFM		EQUIPMENT: Mobile Rig B37				DAYLIGHTING: n/a						
		REVIEWED BY: AD		METHOD: Solid Stem Augering				WELL DIAMETER: n/a						
		DRAFTED BY: AD		GAS METER TYPE: RKI Eagle 2				BOREHOLE DIAMETER: 100mm						

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02					BOREHOLE NO: BH109						
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:n/a					START DATE:4/4/2022						
CLIENT: Jennum Properties Inc.					GRADE ELEV.:100.46m					COMPLETION DATE:4/4/2022						
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.										PAGE 1 OF 1						
Depth (m) Water Level	DESCRIPTION		SAMPLING				ORGANIC VAPOUR CONCENTRATION (ppmv)		COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)		COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft) Water Level			
	STRATIGRAPHY	SYMBOL	NUMBER	SAMPLE TYPE	"N" VALUE	RECOVERY %	SAMPLE NAME / LAB ANALYSES	100	200	300				400	20	40
	GRAVEL (Fill) - brown, sandy, moist		1	SS	21	79										
	SILT (Fill) - brown, sandy, moist (reworked native)															
1	CLAY - mottled brown to brown, silty, trace gravel, moist		2	SS	11	67										
			3	SS	13	71										
2																
			4	SS	30	75										
3			5	SS	31	79										
4	- grey below 3.7m		6	SS	27	50										
5			7	SS	26	66										
6			8	SS	23	79										
7																
8			10	SS	67	79										
9	SHALE - reddish-brown, weathered, moist															
			11	SS	R	100										
10																
	END OF BOREHOLE AT 10.8m		12	SS	R	100										



LOGGED BY: CFM

EQUIPMENT: Mobile Rig B37

DAYLIGHTING: n/a

REVIEWED BY: AD

METHOD: Solid Stem Augering

WELL DIAMETER: n/a

DRAFTED BY: AD

GAS METER TYPE: RKI Eagle 2

BOREHOLE DIAMETER: 100mm

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02					BOREHOLE NO: BH110				
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:n/a					START DATE:4/4/2022				
CLIENT: Jennum Properties Inc.					GRADE ELEV.:99.86m					COMPLETION DATE:4/4/2022				
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.										PAGE 1 OF 1				

Depth (m) Water Level	DESCRIPTION		SYMBOL	SAMPLING				ORGANIC VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)	COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft) Water Level	
	STRATIGRAPHY	NUMBER		SAMPLE TYPE	"N" VALUE	RECOVERY %	SAMPLE NAME / LAB ANALYSES							
	CONCRETE													
	SAND (Fill) - grey, some gravel, wet - black staining at 0.36m	1	SS	11	67	BH110-0.8-1.3/PHC F1-F4, VOCs	35						1	
	CLAY (Fill) - grey, trace gravel - black staining at 0.6m CLAY - brown, silty, trace gravel, moist	2	SS	24	75		40							2
1														3
														4
2	- black staining at 1.8m	3	SS	17	92									5
														6
														7
														8
3													9	
													10	
													11	
4	- grey below 3.6m	5	SS	26	100								12	
													13	
													14	
5		6	SS	28	100								15	
													16	
													17	
													18	
													19	
	END OF BOREHOLE AT 5.9m													

	LOGGED BY: CFM	EQUIPMENT: Mobile Rig B37	DAYLIGHTING: n/a
	REVIEWED BY: AD	METHOD: Solid Stem Augering	WELL DIAMETER: n/a
	DRAFTED BY: AD	GAS METER TYPE: RKI Eagle 2	BOREHOLE DIAMETER: 100mm

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02					BOREHOLE NO: BH111																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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<table><tr><td rowspan="7">ASPHALT SAND (Fill) - brown, gravelly, moist - wet below 0.9m</td><td rowspan="7"></td><td>1</td><td>SS</td><td>18</td><td>67</td><td colspan="4" rowspan="7">MW112-1.5-2.1/PHC F1-F4, VOCs, Metals</td><td colspan="4">● ORGANIC VAPOUR CONCENTRATION (ppmv)</td><td colspan="4">▲ COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)</td><td colspan="4">■ COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)</td><td rowspan="7">Water level at 0.07m on April 22, 2022. Monitoring Well Installed, Screened from 1.5 to 4.6m.</td><td rowspan="7"></td><td rowspan="7">Depth (ft)</td></tr><tr><td>2</td><td>SS</td><td>32</td><td>100</td><td colspan="4">100 200 300 400</td><td colspan="4">20 40 60 80</td></tr><tr><td>3</td><td>SS</td><td>52</td><td>100</td><td colspan="4">ND</td><td colspan="4">ND</td></tr><tr><td>4</td><td>SS</td><td>35</td><td>100</td><td colspan="4">ND</td><td colspan="4">ND</td></tr><tr><td>5</td><td>SS</td><td>18</td><td>100</td><td colspan="4">ND</td><td colspan="4">ND</td></tr><tr><td>6</td><td>SS</td><td>24</td><td>83</td><td colspan="4">ND</td><td colspan="4">ND</td></tr><tr><td>7</td><td>SS</td><td>12</td><td>63</td><td colspan="4">ND</td><td colspan="4">ND</td></tr><tr><td>CLAY - grey, silty, trace gravel, moist</td><td></td><td>8</td><td>SS</td><td>22</td><td>83</td><td colspan="4">MW112-5.3-5.9 (DUP-1)/PHC F1-F4, VOCs, Metals</td><td colspan="4">ND</td><td colspan="4">ND</td><td></td><td></td></tr><tr><td colspan="2">END OF BOREHOLE AT 5.9m</td><td></td><td></td><td></td><td></td><td colspan="4"></td><td colspan="4"></td><td colspan="4"></td><td></td><td></td></tr></table>																		ASPHALT SAND (Fill) - brown, gravelly, moist - wet below 0.9m		1	SS	18	67	MW112-1.5-2.1/PHC F1-F4, VOCs, Metals				● ORGANIC VAPOUR CONCENTRATION (ppmv)				▲ COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)				■ COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)				Water level at 0.07m on April 22, 2022. Monitoring Well Installed, Screened from 1.5 to 4.6m.		Depth (ft)	2	SS	32	100	100 200 300 400				20 40 60 80				3	SS	52	100	ND				ND				4	SS	35	100	ND				ND				5	SS	18	100	ND				ND				6	SS	24	83	ND				ND				7	SS	12	63	ND				ND				CLAY - grey, silty, trace gravel, moist		8	SS	22	83	MW112-5.3-5.9 (DUP-1)/PHC F1-F4, VOCs, Metals				ND				ND						END OF BOREHOLE AT 5.9m																			
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		4	SS	35	100					ND				ND																																																																																																																																												
		5	SS	18	100					ND				ND																																																																																																																																												
		6	SS	24	83					ND				ND																																																																																																																																												
		7	SS	12	63					ND				ND																																																																																																																																												
CLAY - grey, silty, trace gravel, moist		8	SS	22	83	MW112-5.3-5.9 (DUP-1)/PHC F1-F4, VOCs, Metals				ND				ND																																																																																																																																												
END OF BOREHOLE AT 5.9m																																																																																																																																																										
		LOGGED BY: CFM				EQUIPMENT: Mobile Rig B37				DAYLIGHTING: n/a																																																																																																																																																
		REVIEWED BY: AD				METHOD: Hollow Stem Augering				WELL DIAMETER: 51mm																																																																																																																																																
		DRAFTED BY: AD				GAS METER TYPE: RKI Eagle 2				BOREHOLE DIAMETER: 225mm																																																																																																																																																

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02					BOREHOLE NO: MW113				
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:100.41m					START DATE:4/5/2022				
CLIENT: Jennum Properties Inc.					GRADE ELEV.:99.48m					COMPLETION DATE:4/5/2022				
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.										PAGE 1 OF 1				

Depth (m) Water Level	DESCRIPTION		SYMBOL	SAMPLING				ORGANIC VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)	COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft) Water Level
	STRATIGRAPHY	NUMBER		SAMPLE TYPE	"N" VALUE	RECOVERY %	SAMPLE NAME / LAB ANALYSES						
	TOPSOIL - brown, moist												
	SAND (Fill) - brown, some gravel, moist	1	SS	4	54								
	SILT (Fill) - brown, some gravel, trace clay, wet												
	GRAVEL (Fill) - grey, trace Sand, moist												
	CLAY - mottled brown to brown, silty, trace gravel, moist	2	SS	10	92								
2	- grey below 2.2m	3	SS	26	75	MW113-1.5-2.1/PHC F1-F4, VOCs, Metals							
		4	SS	17	96								
3		5	SS	17	100								
4		6	SS	17	83								
5		7	SS	18	83								
	END OF BOREHOLE AT 5.2m												

LOGGED BY: CFM	EQUIPMENT: Mobile Rig B37	DAYLIGHTING: n/a
REVIEWED BY: AD	METHOD: Hollow Stem Augering	WELL DIAMETER: 51mm
DRAFTED BY: AD	GAS METER TYPE: RKI Eagle 2	BOREHOLE DIAMETER: 225mm

BOREHOLE LOG

PROJECT: Phase II Environmental Site Assessment					REF. NO.:0138-001.02		BOREHOLE NO: MW114	
LOCATION:1310 South Service Road, Stoney Creek, Ontario					TPC ELEV.:100.25m		START DATE:4/5/2022	
CLIENT: Jennum Properties Inc.					GRADE ELEV.:99.35m		COMPLETION DATE:4/5/2022	
BENCHMARK:Top of Fire Hydrant on South Service Road assigned elevation of 100.00m.							PAGE 1 OF 1	

Depth (m)	Water Level	DESCRIPTION		SAMPLING				ORGANIC VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (ppmv)	COMBUSTIBLE VAPOUR CONCENTRATION (% LEL)	COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft)	Water Level	
		STRATIGRAPHY	SYMBOL	NUMBER	SAMPLE TYPE	"N" VALUE	RECOVERY %								SAMPLE NAME / LAB ANALYSES
		ASPHALT		1	SS	24	67								
		GRAVEL (Fill) - brown, some sand, moist		2	SS	24	79								
1		CLAY - mottled brown to brown, silty, trace gravel, moist													
		- black staining at 0.8m													
2				3	SS	22	79								
		- grey below 2.1m													
				4	SS	23	58								
3															
				5	SS	21	63								
4															
				6	SS	15	96								
5															
				7	SS	23	75								
		END OF BOREHOLE AT 5.2m													

	LOGGED BY: CFM	EQUIPMENT: Mobile Rig B37	DAYLIGHTING: n/a
	REVIEWED BY: AD	METHOD: Hollow Stem Augering	WELL DIAMETER: 51mm
	DRAFTED BY: AD	GAS METER TYPE: RKI Eagle 2	BOREHOLE DIAMETER: 225mm

Appendix B
Laboratory Certificates of Analysis



Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK
Your C.O.C. #: n/a

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/05/05
Report #: R7112274
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C290888

Received: 2022/04/06, 11:16

Sample Matrix: Soil
Samples Received: 26

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	6	N/A	2022/04/12	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	1	N/A	2022/04/13	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	8	N/A	2022/04/12		EPA 8260C m
Conductivity	6	2022/04/11	2022/04/11	CAM SOP-00414	OMOE E3530 v1 m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	2	N/A	2022/04/18	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	8	N/A	2022/04/08	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	15	2022/04/11	2022/04/12	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	1	2022/04/12	2022/04/12	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	1	2022/04/18	2022/04/18	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	1	2022/04/14	2022/04/14	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS	5	2022/04/11	2022/04/11	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2022/04/27	2022/04/27	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	6	2022/04/08	2022/04/11	CAM SOP-00447	EPA 6020B m
Moisture	2	N/A	2022/04/11	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	8	N/A	2022/04/12	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	2	N/A	2022/04/18	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	6	N/A	2022/04/07	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	6	2022/04/08	2022/04/08	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/04/08	2022/04/09	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	1	2022/04/27	2022/04/27	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	7	2022/04/08	2022/04/08	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	1	N/A	2022/04/27	CAM SOP-00467	ASTM D1140 -17 m
Sieve, 75um	7	N/A	2022/04/09	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	6	N/A	2022/04/12	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	8	N/A	2022/04/12	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession



Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK
Your C.O.C. #: n/a

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/05/05

Report #: R7112274

Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C290888

Received: 2022/04/06, 11:16

using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Deepthi Shaji
Project Manager
05 May 2022 16:30:32

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

Deepthi Shaji, Project Manager

Email: Deepthi.Shaji@bureauveritas.com

Phone# (905)817-5700 Ext:7065843

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SHH215		SHH306		SHH339		
Sampling Date		2022/03/31 16:00		2022/04/01 13:50		2022/04/05 11:40		
COC Number		n/a		n/a		n/a		
	UNITS	MW105-1.5-2.1	QC Batch	MW107-1.5-2.1	QC Batch	MW112-1.5-2.1	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	<0.20	7930641	<0.20	7961480	<0.20	0.20	7930641
Acid Extractable Arsenic (As)	ug/g	3.7	7930641	2.7	7961480	2.3	1.0	7930641
Acid Extractable Barium (Ba)	ug/g	190	7930641	77	7961480	30	0.50	7930641
Acid Extractable Beryllium (Be)	ug/g	0.63	7930641	0.41	7961480	<0.20	0.20	7930641
Acid Extractable Boron (B)	ug/g	5.0	7930641	<5.0	7961480	<5.0	5.0	7930641
Acid Extractable Cadmium (Cd)	ug/g	0.13	7930641	<0.10	7961480	0.31	0.10	7930641
Acid Extractable Chromium (Cr)	ug/g	22	7930641	12	7961480	12	1.0	7930641
Acid Extractable Cobalt (Co)	ug/g	12	7930641	6.8	7961480	3.1	0.10	7930641
Acid Extractable Copper (Cu)	ug/g	29	7930641	18	7961480	19	0.50	7930641
Acid Extractable Lead (Pb)	ug/g	13	7930641	6.3	7961480	18	1.0	7930641
Acid Extractable Molybdenum (Mo)	ug/g	0.51	7930641	<0.50	7961480	0.78	0.50	7930641
Acid Extractable Nickel (Ni)	ug/g	26	7930641	15	7961480	6.7	0.50	7930641
Acid Extractable Selenium (Se)	ug/g	<0.50	7930641	<0.50	7961480	<0.50	0.50	7930641
Acid Extractable Silver (Ag)	ug/g	<0.20	7930641	<0.20	7961480	<0.20	0.20	7930641
Acid Extractable Thallium (Tl)	ug/g	0.12	7930641	0.060	7961480	0.056	0.050	7930641
Acid Extractable Uranium (U)	ug/g	0.68	7930641	0.57	7961480	0.39	0.050	7930641
Acid Extractable Vanadium (V)	ug/g	29	7930641	19	7961480	12	5.0	7930641
Acid Extractable Zinc (Zn)	ug/g	69	7930641	37	7961480	120	5.0	7930641
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C290888
Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK
Sampler Initials: CFM

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SHH340	SHH342	SHH344		SHH346	SHH368		
Sampling Date		2022/04/05 11:30	2022/04/05 13:30	2022/04/05 15:10		2022/04/05 16:40	2022/04/05 16:50		
COC Number		n/a	n/a	n/a		n/a	n/a		
	UNITS	MW112-5.3-5.9	MW113-1.5-2.1	MW114-2.3-2.9	QC Batch	SP1	SP2	RDL	QC Batch

Metals									
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	7930641	0.23	0.45	0.20	7932924
Acid Extractable Arsenic (As)	ug/g	4.8	5.8	3.9	7930641	5.8	3.5	1.0	7932924
Acid Extractable Barium (Ba)	ug/g	65	97	83	7930641	97	120	0.50	7932924
Acid Extractable Beryllium (Be)	ug/g	0.55	0.70	0.66	7930641	0.86	0.93	0.20	7932924
Acid Extractable Boron (B)	ug/g	7.4	5.8	6.7	7930641	7.8	24	5.0	7932924
Acid Extractable Cadmium (Cd)	ug/g	0.14	<0.10	<0.10	7930641	0.21	0.16	0.10	7932924
Acid Extractable Chromium (Cr)	ug/g	18	22	21	7930641	26	25	1.0	7932924
Acid Extractable Cobalt (Co)	ug/g	11	17	12	7930641	13	14	0.10	7932924
Acid Extractable Copper (Cu)	ug/g	28	36	34	7930641	33	9.1	0.50	7932924
Acid Extractable Lead (Pb)	ug/g	7.9	18	14	7930641	20	9.9	1.0	7932924
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	0.53	7930641	0.58	1.1	0.50	7932924
Acid Extractable Nickel (Ni)	ug/g	23	32	27	7930641	27	31	0.50	7932924
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	7930641	<0.50	<0.50	0.50	7932924
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	7930641	<0.20	<0.20	0.20	7932924
Acid Extractable Thallium (Tl)	ug/g	0.086	0.14	0.082	7930641	0.16	0.10	0.050	7932924
Acid Extractable Uranium (U)	ug/g	0.51	0.74	0.64	7930641	0.58	1.3	0.050	7932924
Acid Extractable Vanadium (V)	ug/g	24	29	27	7930641	34	28	5.0	7932924
Acid Extractable Zinc (Zn)	ug/g	92	65	64	7930641	210	67	5.0	7932924

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SHH369	SHH370		SHH371		SHH372		
Sampling Date		2022/04/05 17:00	2022/04/05 17:10		2022/04/05 17:20		2022/04/05 17:30		
COC Number		n/a	n/a		n/a		n/a		
	UNITS	SP3	SP4	QC Batch	SP5	QC Batch	SP6	RDL	QC Batch
Metals									
Acid Extractable Antimony (Sb)	ug/g	0.40	0.20	7932924	0.24	7930641	0.45	0.20	7932924
Acid Extractable Arsenic (As)	ug/g	3.6	4.8	7932924	4.4	7930641	4.4	1.0	7932924
Acid Extractable Barium (Ba)	ug/g	120	100	7932924	92	7930641	400	0.50	7932924
Acid Extractable Beryllium (Be)	ug/g	1.1	0.78	7932924	0.75	7930641	1.3	0.20	7932924
Acid Extractable Boron (B)	ug/g	23	13	7932924	12	7930641	24	5.0	7932924
Acid Extractable Cadmium (Cd)	ug/g	0.14	0.16	7932924	0.24	7930641	0.17	0.10	7932924
Acid Extractable Chromium (Cr)	ug/g	26	23	7932924	20	7930641	30	1.0	7932924
Acid Extractable Cobalt (Co)	ug/g	15	13	7932924	13	7930641	15	0.10	7932924
Acid Extractable Copper (Cu)	ug/g	10	26	7932924	19	7930641	10	0.50	7932924
Acid Extractable Lead (Pb)	ug/g	9.5	14	7932924	15	7930641	10	1.0	7932924
Acid Extractable Molybdenum (Mo)	ug/g	1.1	0.91	7932924	0.78	7930641	1.2	0.50	7932924
Acid Extractable Nickel (Ni)	ug/g	31	27	7932924	28	7930641	42	0.50	7932924
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	7932924	<0.50	7930641	<0.50	0.50	7932924
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	7932924	<0.20	7930641	<0.20	0.20	7932924
Acid Extractable Thallium (Tl)	ug/g	0.13	0.13	7932924	0.085	7930641	0.14	0.050	7932924
Acid Extractable Uranium (U)	ug/g	1.9	1.2	7932924	1.1	7930641	3.7	0.050	7932924
Acid Extractable Vanadium (V)	ug/g	30	29	7932924	25	7930641	32	5.0	7932924
Acid Extractable Zinc (Zn)	ug/g	69	76	7932924	100	7930641	79	5.0	7932924
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

**O.REG 153 PAHS (SOIL)**

Bureau Veritas ID		SHH342	SHH346	SHH368	SHH369	SHH370	SHH371		
Sampling Date		2022/04/05 13:30	2022/04/05 16:40	2022/04/05 16:50	2022/04/05 17:00	2022/04/05 17:10	2022/04/05 17:20		
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	MW113-1.5-2.1	SP1	SP2	SP3	SP4	SP5	RDL	QC Batch

Calculated Parameters

Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	7926886
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Polyaromatic Hydrocarbons

Acenaphthene	ug/g	<0.0050	0.0062	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7929261
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7929261
Anthracene	ug/g	<0.0050	0.020	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7929261
Benzo(a)anthracene	ug/g	<0.0050	0.055	<0.0050	<0.0050	<0.0050	0.012	0.0050	7929261
Benzo(a)pyrene	ug/g	<0.0050	0.054	<0.0050	<0.0050	<0.0050	0.010	0.0050	7929261
Benzo(b,j)fluoranthene	ug/g	<0.0050	0.079	<0.0050	<0.0050	<0.0050	0.014	0.0050	7929261
Benzo(g,h,i)perylene	ug/g	<0.0050	0.050	<0.0050	<0.0050	<0.0050	0.0089	0.0050	7929261
Benzo(k)fluoranthene	ug/g	<0.0050	0.024	<0.0050	<0.0050	<0.0050	0.0051	0.0050	7929261
Chrysene	ug/g	<0.0050	0.064	<0.0050	<0.0050	<0.0050	0.0096	0.0050	7929261
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0080	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7929261
Fluoranthene	ug/g	<0.0050	0.13	<0.0050	0.0053	<0.0050	0.026	0.0050	7929261
Fluorene	ug/g	<0.0050	0.0079	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7929261
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.047	<0.0050	<0.0050	<0.0050	0.0075	0.0050	7929261
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7929261
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7929261
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7929261
Phenanthrene	ug/g	<0.0050	0.072	<0.0050	<0.0050	<0.0050	0.010	0.0050	7929261
Pyrene	ug/g	<0.0050	0.11	<0.0050	<0.0050	<0.0050	0.020	0.0050	7929261

Surrogate Recovery (%)

D10-Anthracene	%	96	104	103	106	101	109		7929261
D14-Terphenyl (FS)	%	95	100	97	100	95	101		7929261
D8-Acenaphthylene	%	78	90	86	90	88	87		7929261

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**O.REG 153 PAHS (SOIL)**

Bureau Veritas ID		SHH372		
Sampling Date		2022/04/05 17:30		
COC Number		n/a		
	UNITS	SP6	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	7926886
Polyaromatic Hydrocarbons				
Acenaphthene	ug/g	<0.0050	0.0050	7929261
Acenaphthylene	ug/g	<0.0050	0.0050	7929261
Anthracene	ug/g	<0.0050	0.0050	7929261
Benzo(a)anthracene	ug/g	<0.0050	0.0050	7929261
Benzo(a)pyrene	ug/g	0.0055	0.0050	7929261
Benzo(b,j)fluoranthene	ug/g	0.0078	0.0050	7929261
Benzo(g,h,i)perylene	ug/g	0.0050	0.0050	7929261
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	7929261
Chrysene	ug/g	0.0050	0.0050	7929261
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7929261
Fluoranthene	ug/g	0.011	0.0050	7929261
Fluorene	ug/g	<0.0050	0.0050	7929261
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	7929261
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7929261
2-Methylnaphthalene	ug/g	<0.0050	0.0050	7929261
Naphthalene	ug/g	<0.0050	0.0050	7929261
Phenanthrene	ug/g	<0.0050	0.0050	7929261
Pyrene	ug/g	0.0083	0.0050	7929261
Surrogate Recovery (%)				
D10-Anthracene	%	100		7929261
D14-Terphenyl (FS)	%	92		7929261
D8-Acenaphthylene	%	74		7929261
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SHH210		SHH313			SHH313		
Sampling Date		2022/03/31 10:30		2022/04/04 16:40			2022/04/04 16:40		
COC Number		n/a		n/a			n/a		
	UNITS	MW103-1.5-2.1	QC Batch	BH110-3.0-3.7	RDL	QC Batch	BH110-3.0-3.7 Lab-Dup	RDL	QC Batch
Inorganics									
Moisture	%	14	7933546	13	1.0	7944240			
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	7929680	<0.020	0.020	7944454	<0.020	0.020	7944454
Toluene	ug/g	<0.020	7929680	<0.020	0.020	7944454	<0.020	0.020	7944454
Ethylbenzene	ug/g	<0.020	7929680	<0.020	0.020	7944454	<0.020	0.020	7944454
o-Xylene	ug/g	<0.020	7929680	<0.020	0.020	7944454	<0.020	0.020	7944454
p+m-Xylene	ug/g	<0.040	7929680	<0.040	0.040	7944454	<0.040	0.040	7944454
Total Xylenes	ug/g	<0.040	7929680	<0.040	0.040	7944454	<0.040	0.040	7944454
F1 (C6-C10)	ug/g	<10	7929680	<10	10	7944454	<10	10	7944454
F1 (C6-C10) - BTEX	ug/g	<10	7929680	<10	10	7944454	<10	10	7944454
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7935148	<10	10	7944475	<10	10	7944475
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7935148	<50	50	7944475	<50	50	7944475
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7935148	<50	50	7944475	<50	50	7944475
Reached Baseline at C50	ug/g	Yes	7935148	Yes		7944475	Yes		7944475
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	98	7929680	107		7944454	107		7944454
4-Bromofluorobenzene	%	94	7929680	83		7944454	94		7944454
D10-o-Xylene	%	88	7929680	105		7944454	105		7944454
D4-1,2-Dichloroethane	%	94	7929680	102		7944454	103		7944454
o-Terphenyl	%	87	7935148	95		7944475	87		7944475
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									

**O.REG 153 PHCS, BTEX/F1-F4 (SOIL)**

Bureau Veritas ID		SHH341		SHH346	SHH368	SHH369	SHH370	SHH371		
Sampling Date		2022/04/05 11:31		2022/04/05 16:40	2022/04/05 16:50	2022/04/05 17:00	2022/04/05 17:10	2022/04/05 17:20		
COC Number		n/a		n/a	n/a	n/a	n/a	n/a		
	UNITS	DUP-1	QC Batch	SP1	SP2	SP3	SP4	SP5	RDL	QC Batch
Inorganics										
Moisture	%	9.4	7933546	18	17	21	15	16	1.0	7927195
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	7929680	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7929680
Toluene	ug/g	<0.020	7929680	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7929680
Ethylbenzene	ug/g	<0.020	7929680	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7929680
o-Xylene	ug/g	<0.020	7929680	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7929680
p+m-Xylene	ug/g	<0.040	7929680	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	7929680
Total Xylenes	ug/g	<0.040	7929680	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	7929680
F1 (C6-C10)	ug/g	<10	7929680	<10	<10	<10	<10	<10	10	7929680
F1 (C6-C10) - BTEX	ug/g	<10	7929680	<10	<10	<10	<10	<10	10	7929680
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7934252	<10	<10	<10	<10	<10	10	7934252
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7934252	97	<50	<50	<50	<50	50	7934252
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7934252	200	<50	<50	<50	<50	50	7934252
Reached Baseline at C50	ug/g	Yes	7934252	Yes	Yes	Yes	Yes	Yes		7934252
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	109	7929680	99	99	101	100	97		7929680
4-Bromofluorobenzene	%	108	7929680	93	96	102	95	99		7929680
D10-o-Xylene	%	89	7929680	80	91	96	86	87		7929680
D4-1,2-Dichloroethane	%	112	7929680	99	102	112	106	104		7929680
o-Terphenyl	%	96	7934252	97	97	93	98	99		7934252
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SHH372		
Sampling Date		2022/04/05 17:30		
COC Number		n/a		
	UNITS	SP6	RDL	QC Batch
Inorganics				
Moisture	%	18	1.0	7927195
BTEX & F1 Hydrocarbons				
Benzene	ug/g	<0.020	0.020	7929680
Toluene	ug/g	<0.020	0.020	7929680
Ethylbenzene	ug/g	<0.020	0.020	7929680
o-Xylene	ug/g	<0.020	0.020	7929680
p+m-Xylene	ug/g	<0.040	0.040	7929680
Total Xylenes	ug/g	<0.040	0.040	7929680
F1 (C6-C10)	ug/g	<10	10	7929680
F1 (C6-C10) - BTEX	ug/g	<10	10	7929680
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7934252
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7934252
F4 (C34-C50 Hydrocarbons)	ug/g	59	50	7934252
Reached Baseline at C50	ug/g	Yes		7934252
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	105		7929680
4-Bromofluorobenzene	%	109		7929680
D10-o-Xylene	%	88		7929680
D4-1,2-Dichloroethane	%	101		7929680
o-Terphenyl	%	95		7934252
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C290888
Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK
Sampler Initials: CFM

O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SHH215	SHH312			SHH312		
Sampling Date		2022/03/31 16:00	2022/04/04 16:30			2022/04/04 16:30		
COC Number		n/a	n/a			n/a		
	UNITS	MW105-1.5-2.1	BH110-0.8-1.3	RDL	QC Batch	BH110-0.8-1.3 Lab-Dup	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7926887			
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	7932121	<0.49	0.49	7932121
Benzene	ug/g	<0.0060	<0.0060	0.0060	7932121	<0.0060	0.0060	7932121
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Bromoform	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Bromomethane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Chlorobenzene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Chloroform	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	7932121	<0.049	0.049	7932121
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7932121	<0.030	0.030	7932121
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Ethylbenzene	ug/g	<0.010	3.3	0.010	7932121	3.0	0.010	7932121
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Hexane	ug/g	<0.040	0.10	0.040	7932121	0.081	0.040	7932121
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	7932121	<0.049	0.049	7932121
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	7932121	<0.40	0.40	7932121
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	7932121	<0.40	0.40	7932121
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								



O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SHH215	SHH312			SHH312		
Sampling Date		2022/03/31 16:00	2022/04/04 16:30			2022/04/04 16:30		
COC Number		n/a	n/a			n/a		
	UNITS	MW105-1.5-2.1	BH110-0.8-1.3	RDL	QC Batch	BH110-0.8-1.3 Lab-Dup	RDL	QC Batch
Styrene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Toluene	ug/g	<0.020	<0.020	0.020	7932121	<0.020	0.020	7932121
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Trichloroethylene	ug/g	<0.010	<0.010	0.010	7932121	<0.010	0.010	7932121
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	7932121	<0.040	0.040	7932121
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	7932121	<0.019	0.019	7932121
p+m-Xylene	ug/g	<0.020	3.7	0.020	7932121	3.1	0.020	7932121
o-Xylene	ug/g	<0.020	<0.020	0.020	7932121	<0.020	0.020	7932121
Total Xylenes	ug/g	<0.020	3.7	0.020	7932121	3.1	0.020	7932121
F1 (C6-C10)	ug/g	<10	65	10	7932121	59	10	7932121
F1 (C6-C10) - BTEX	ug/g	<10	58	10	7932121	53	10	7932121
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7934252			
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7934252			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7934252			
Reached Baseline at C50	ug/g	Yes	Yes		7934252			
Surrogate Recovery (%)								
o-Terphenyl	%	97	98		7934252			
4-Bromofluorobenzene	%	91	99		7932121	95		7932121
D10-o-Xylene	%	90	114		7932121	102		7932121
D4-1,2-Dichloroethane	%	97	89		7932121	90		7932121
D8-Toluene	%	95	99		7932121	100		7932121
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



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Bureau Veritas Job #: C290888
Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK
Sampler Initials: CFM

O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SHH314		SHH337	SHH339	SHH340		
Sampling Date		2022/04/05 10:10		2022/04/05 10:15	2022/04/05 11:40	2022/04/05 11:30		
COC Number		n/a		n/a	n/a	n/a		
	UNITS	BH111-0.8-1.3	RDL	BH111-1.5-2.1	MW112-1.5-2.1	MW112-5.3-5.9	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	0.050	7926887
Volatile Organics								
Acetone (2-Propanone)	ug/g	<1.5 (1)	1.5	<0.49	<0.49	<0.49	0.49	7932121
Benzene	ug/g	8.4	0.0060	2.9	<0.0060	<0.0060	0.0060	7932121
Bromodichloromethane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Bromoform	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Bromomethane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Carbon Tetrachloride	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Chlorobenzene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Chloroform	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Dibromochloromethane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,2-Dichlorobenzene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,3-Dichlorobenzene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,4-Dichlorobenzene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,1-Dichloroethane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,2-Dichloroethane	ug/g	<0.049	0.049	<0.049	<0.049	<0.049	0.049	7932121
1,1-Dichloroethylene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,2-Dichloropropane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	<0.030	<0.030	<0.030	0.030	7932121
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Ethylbenzene	ug/g	13	0.010	1.2	<0.010	<0.010	0.010	7932121
Ethylene Dibromide	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Hexane	ug/g	8.3	0.040	0.072	<0.040	<0.040	0.040	7932121
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	<0.049	<0.049	<0.049	0.049	7932121
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	<0.40	<0.40	<0.40	0.40	7932121
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	<0.40	<0.40	<0.40	0.40	7932121
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
(1) The detection limit was raised due to matrix interference.								



BUREAU
VERITAS

Bureau Veritas Job #: C290888

Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SHH314		SHH337	SHH339	SHH340		
Sampling Date		2022/04/05 10:10		2022/04/05 10:15	2022/04/05 11:40	2022/04/05 11:30		
COC Number		n/a		n/a	n/a	n/a		
	UNITS	BH111-0.8-1.3	RDL	BH111-1.5-2.1	MW112-1.5-2.1	MW112-5.3-5.9	RDL	QC Batch
Styrene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Tetrachloroethylene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Toluene	ug/g	12	0.020	0.083	<0.020	<0.020	0.020	7932121
1,1,1-Trichloroethane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
1,1,2-Trichloroethane	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Trichloroethylene	ug/g	<0.010	0.010	<0.010	<0.010	<0.010	0.010	7932121
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	0.040	7932121
Vinyl Chloride	ug/g	<0.019	0.019	<0.019	<0.019	<0.019	0.019	7932121
p+m-Xylene	ug/g	45	0.10	0.29	<0.020	<0.020	0.020	7932121
o-Xylene	ug/g	2.1	0.020	0.057	<0.020	<0.020	0.020	7932121
Total Xylenes	ug/g	47	0.10	0.35	<0.020	<0.020	0.020	7932121
F1 (C6-C10)	ug/g	390	50	<10	<10	<10	10	7932121
F1 (C6-C10) - BTEX	ug/g	310	50	<10	<10	<10	10	7932121
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	<10	<10	<10	10	7934252
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	<50	150	<50	50	7934252
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	<50	320	<50	50	7934252
Reached Baseline at C50	ug/g	Yes		Yes	No	Yes		7934252
Surrogate Recovery (%)								
o-Terphenyl	%	97		98	97	95		7934252
4-Bromofluorobenzene	%	101		95	89	94		7932121
D10-o-Xylene	%	122		86	79	79		7932121
D4-1,2-Dichloroethane	%	84		92	95	97		7932121
D8-Toluene	%	101		96	94	100		7932121
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C290888

Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SHH342	SHH344		
Sampling Date		2022/04/05 13:30	2022/04/05 15:10		
COC Number		n/a	n/a		
	UNITS	MW113-1.5-2.1	MW114-2.3-2.9	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7926887
Volatile Organics					
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	7932121
Benzene	ug/g	<0.0060	<0.0060	0.0060	7932121
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	7932121
Bromoform	ug/g	<0.040	<0.040	0.040	7932121
Bromomethane	ug/g	<0.040	<0.040	0.040	7932121
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	7932121
Chlorobenzene	ug/g	<0.040	<0.040	0.040	7932121
Chloroform	ug/g	<0.040	<0.040	0.040	7932121
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	7932121
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7932121
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7932121
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7932121
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	7932121
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	7932121
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	7932121
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7932121
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7932121
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7932121
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	7932121
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7932121
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7932121
Ethylbenzene	ug/g	<0.010	<0.010	0.010	7932121
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	7932121
Hexane	ug/g	<0.040	<0.040	0.040	7932121
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	7932121
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	7932121
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	7932121
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	7932121
Styrene	ug/g	<0.040	<0.040	0.040	7932121
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SHH342	SHH344		
Sampling Date		2022/04/05 13:30	2022/04/05 15:10		
COC Number		n/a	n/a		
	UNITS	MW113-1.5-2.1	MW114-2.3-2.9	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7932121
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7932121
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	7932121
Toluene	ug/g	<0.020	<0.020	0.020	7932121
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	7932121
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	7932121
Trichloroethylene	ug/g	<0.010	<0.010	0.010	7932121
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	7932121
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	7932121
p+m-Xylene	ug/g	<0.020	<0.020	0.020	7932121
o-Xylene	ug/g	<0.020	<0.020	0.020	7932121
Total Xylenes	ug/g	<0.020	<0.020	0.020	7932121
F1 (C6-C10)	ug/g	<10	<10	10	7932121
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7932121
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7934252
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7934252
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7934252
Reached Baseline at C50	ug/g	Yes	Yes		7934252
Surrogate Recovery (%)					
o-Terphenyl	%	99	96		7934252
4-Bromofluorobenzene	%	88	87		7932121
D10-o-Xylene	%	75	82		7932121
D4-1,2-Dichloroethane	%	97	96		7932121
D8-Toluene	%	94	89		7932121
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHH209	SHH210	SHH212	SHH214		
Sampling Date		2022/03/31 10:40	2022/03/31 10:30	2022/03/31 13:10	2022/03/31 13:30		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	MW103-0.7-1.4	MW103-1.5-2.1	BH104-0.7-1.4	BH104-2.2-2.9	RDL	QC Batch

Inorganics							
Available (CaCl ₂) pH	pH	7.70	7.83	7.55	7.81		7930061
Miscellaneous Parameters							
Grain Size	%	FINE	FINE	FINE	FINE	N/A	7930438
Sieve - #200 (<0.075mm)	%	86	86	68	85	1	7930438
Sieve - #200 (>0.075mm)	%	14	14	32	15	1	7930438

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		SHH215			SHH307		SHH307		
Sampling Date		2022/03/31 16:00			2022/04/01 14:10		2022/04/01 14:10		
COC Number		n/a			n/a		n/a		
	UNITS	MW105-1.5-2.1	RDL	QC Batch	MW107-2.2-2.9	QC Batch	MW107-2.2-2.9 Lab-Dup	RDL	QC Batch

Inorganics									
Moisture	%	14	1.0	7935873					
Available (CaCl ₂) pH	pH				7.76	7930061			
Miscellaneous Parameters									
Grain Size	%				FINE	7930438	FINE	N/A	7930438
Sieve - #200 (<0.075mm)	%				87	7930438	86	1	7930438
Sieve - #200 (>0.075mm)	%				13	7930438	14	1	7930438

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



BUREAU
VERITAS

Bureau Veritas Job #: C290888

Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHH308	SHH309		SHH310			SHH312		
Sampling Date		2022/04/01 14:30	2022/04/04 11:00		2022/04/01 11:15			2022/04/04 16:30		
COC Number		n/a	n/a		n/a			n/a		
	UNITS	MW107-0.7-1.4	BH108-0.8-1.3	QC Batch	BH108-1.5-2.1	RDL	QC Batch	BH110-0.8-1.3	RDL	QC Batch

Inorganics

Moisture	%							14	1.0	7935873
Available (CaCl ₂) pH	pH	7.10	7.75	7930061	7.74		7961496			

Miscellaneous Parameters

Grain Size	%	FINE	FINE	7930438	FINE	N/A	7960606			
Sieve - #200 (<0.075mm)	%	51	86	7930438	86	1	7960606			
Sieve - #200 (>0.075mm)	%	49	14	7930438	14	1	7960606			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Bureau Veritas ID		SHH314	SHH337	SHH337		SHH338		
Sampling Date		2022/04/05 10:10	2022/04/05 10:15	2022/04/05 10:15		2022/04/05 10:00		
COC Number		n/a	n/a	n/a		n/a		
	UNITS	BH111-0.8-1.3	BH111-1.5-2.1	BH111-1.5-2.1 Lab-Dup	QC Batch	BH111-3.0-3.7	RDL	QC Batch

Inorganics

Moisture	%	14	14	13	7935873	12	1.0	7944240
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		SHH339	SHH340	SHH342	SHH344		
Sampling Date		2022/04/05 11:40	2022/04/05 11:30	2022/04/05 13:30	2022/04/05 15:10		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	MW112-1.5-2.1	MW112-5.3-5.9	MW113-1.5-2.1	MW114-2.3-2.9	RDL	QC Batch

Inorganics

Moisture	%	7.8	11	14	14	1.0	7935873
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SHH346	SHH368	SHH369	SHH370	SHH371	SHH372		
Sampling Date		2022/04/05 16:40	2022/04/05 16:50	2022/04/05 17:00	2022/04/05 17:10	2022/04/05 17:20	2022/04/05 17:30		
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	SP1	SP2	SP3	SP4	SP5	SP6	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.48	0.68	0.70	0.47	0.47	1.3		7926762
Inorganics									
Conductivity	mS/cm	0.51	1.7	1.6	1.1	1.2	0.68	0.002	7932815
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		SHH338			SHH339		
Sampling Date		2022/04/05 10:00			2022/04/05 11:40		
COC Number		n/a			n/a		
	UNITS	BH111-3.0-3.7	RDL	QC Batch	MW112-1.5-2.1	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	0.020	7944454			
Toluene	ug/g	<0.020	0.020	7944454			
Ethylbenzene	ug/g	<0.020	0.020	7944454			
o-Xylene	ug/g	<0.020	0.020	7944454			
p+m-Xylene	ug/g	<0.040	0.040	7944454			
Total Xylenes	ug/g	<0.040	0.040	7944454			
F2-F4 Hydrocarbons							
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g				1000	100	7940216
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	106		7944454			
4-Bromofluorobenzene	%	84		7944454			
D10-o-Xylene	%	104		7944454			
D4-1,2-Dichloroethane	%	99		7944454			
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



TEST SUMMARY

Bureau Veritas ID: SHH209
Sample ID: MW103-0.7-1.4
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl ₂ EXTRACT	AT	7930061	2022/04/08	2022/04/08	Neil Dassanayake
Sieve, 75um	SIEV	7930438	N/A	2022/04/09	Kruti Jitesh Patel

Bureau Veritas ID: SHH210
Sample ID: MW103-1.5-2.1
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7929680	N/A	2022/04/08	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7935148	2022/04/12	2022/04/12	Dennis Ngundu
Moisture	BAL	7933546	N/A	2022/04/11	Muhammad Chhaidan
pH CaCl ₂ EXTRACT	AT	7930061	2022/04/08	2022/04/08	Neil Dassanayake
Sieve, 75um	SIEV	7930438	N/A	2022/04/09	Kruti Jitesh Patel

Bureau Veritas ID: SHH212
Sample ID: BH104-0.7-1.4
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl ₂ EXTRACT	AT	7930061	2022/04/08	2022/04/08	Neil Dassanayake
Sieve, 75um	SIEV	7930438	N/A	2022/04/09	Kruti Jitesh Patel

Bureau Veritas ID: SHH214
Sample ID: BH104-2.2-2.9
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl ₂ EXTRACT	AT	7930061	2022/04/08	2022/04/08	Neil Dassanayake
Sieve, 75um	SIEV	7930438	N/A	2022/04/09	Kruti Jitesh Patel

Bureau Veritas ID: SHH215
Sample ID: MW105-1.5-2.1
Matrix: Soil

Collected: 2022/03/31
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7926887	N/A	2022/04/12	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7930641	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang



**BUREAU
VERITAS**

Bureau Veritas Job #: C290888
Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK
Sampler Initials: CFM

TEST SUMMARY

Bureau Veritas ID: SHH306
Sample ID: MW107-1.5-2.1
Matrix: Soil

Collected: 2022/04/01
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7961480	2022/04/27	2022/04/27	Prempal Bhatti

Bureau Veritas ID: SHH307
Sample ID: MW107-2.2-2.9
Matrix: Soil

Collected: 2022/04/01
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7930061	2022/04/08	2022/04/08	Neil Dassanayake
Sieve, 75um	SIEV	7930438	N/A	2022/04/09	Kruti Jitesh Patel

Bureau Veritas ID: SHH307 Dup
Sample ID: MW107-2.2-2.9
Matrix: Soil

Collected: 2022/04/01
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7930438	N/A	2022/04/09	Kruti Jitesh Patel

Bureau Veritas ID: SHH308
Sample ID: MW107-0.7-1.4
Matrix: Soil

Collected: 2022/04/01
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7930061	2022/04/08	2022/04/08	Neil Dassanayake
Sieve, 75um	SIEV	7930438	N/A	2022/04/09	Kruti Jitesh Patel

Bureau Veritas ID: SHH309
Sample ID: BH108-0.8-1.3
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7930061	2022/04/08	2022/04/08	Neil Dassanayake
Sieve, 75um	SIEV	7930438	N/A	2022/04/09	Kruti Jitesh Patel

Bureau Veritas ID: SHH310
Sample ID: BH108-1.5-2.1
Matrix: Soil

Collected: 2022/04/01
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7961496	2022/04/27	2022/04/27	Taslima Aktar
Sieve, 75um	SIEV	7960606	N/A	2022/04/27	Min Yang



BUREAU
VERITAS

Bureau Veritas Job #: C290888

Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

TEST SUMMARY

Bureau Veritas ID: SHH312
Sample ID: BH110-0.8-1.3
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7926887	N/A	2022/04/12	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang

Bureau Veritas ID: SHH312 Dup
Sample ID: BH110-0.8-1.3
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang

Bureau Veritas ID: SHH313
Sample ID: BH110-3.0-3.7
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944454	N/A	2022/04/18	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944475	2022/04/18	2022/04/18	Ksenia Trofimova
Moisture	BAL	7944240	N/A	2022/04/18	Muhammad Chhaidan

Bureau Veritas ID: SHH313 Dup
Sample ID: BH110-3.0-3.7
Matrix: Soil

Collected: 2022/04/04
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944454	N/A	2022/04/18	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944475	2022/04/18	2022/04/18	Ksenia Trofimova

Bureau Veritas ID: SHH314
Sample ID: BH111-0.8-1.3
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7926887	N/A	2022/04/12	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang

Bureau Veritas ID: SHH337
Sample ID: BH111-1.5-2.1
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7926887	N/A	2022/04/12	Automated Statchk



TEST SUMMARY

Bureau Veritas ID: SHH337
Sample ID: BH111-1.5-2.1
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang

Bureau Veritas ID: SHH337 Dup
Sample ID: BH111-1.5-2.1
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema

Bureau Veritas ID: SHH338
Sample ID: BH111-3.0-3.7
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944454	N/A	2022/04/18	Haibin Wu
Moisture	BAL	7944240	N/A	2022/04/18	Muhammad Chhaidan

Bureau Veritas ID: SHH339
Sample ID: MW112-1.5-2.1
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7926887	N/A	2022/04/12	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
F4G (CCME Hydrocarbons Gravimetric)	BAL	7940216	2022/04/14	2022/04/14	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7930641	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang

Bureau Veritas ID: SHH340
Sample ID: MW112-5.3-5.9
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7926887	N/A	2022/04/12	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7930641	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang



TEST SUMMARY

Bureau Veritas ID: SHH341

Sample ID: DUP-1

Matrix: Soil

Collected: 2022/04/05

Shipped:

Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7929680	N/A	2022/04/08	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Moisture	BAL	7933546	N/A	2022/04/11	Muhammad Chhaidan

Bureau Veritas ID: SHH342

Sample ID: MW113-1.5-2.1

Matrix: Soil

Collected: 2022/04/05

Shipped:

Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926886	N/A	2022/04/13	Automated Statchk
1,3-Dichloropropene Sum	CALC	7926887	N/A	2022/04/12	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7930641	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7929261	2022/04/08	2022/04/08	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang

Bureau Veritas ID: SHH344

Sample ID: MW114-2.3-2.9

Matrix: Soil

Collected: 2022/04/05

Shipped:

Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7926887	N/A	2022/04/12	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7930641	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7935873	N/A	2022/04/12	Paramvir Singh Cheema
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7932121	N/A	2022/04/12	Xueming Jiang

Bureau Veritas ID: SHH346

Sample ID: SP1

Matrix: Soil

Collected: 2022/04/05

Shipped:

Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926886	N/A	2022/04/12	Automated Statchk
Conductivity	AT	7932815	2022/04/11	2022/04/11	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7929680	N/A	2022/04/08	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7932924	2022/04/11	2022/04/11	Daniel Teclu
Moisture	BAL	7927195	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7929261	2022/04/08	2022/04/08	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7926762	N/A	2022/04/12	Automated Statchk



**BUREAU
VERITAS**

Bureau Veritas Job #: C290888

Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

TEST SUMMARY

Bureau Veritas ID: SHH368
Sample ID: SP2
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926886	N/A	2022/04/12	Automated Statchk
Conductivity	AT	7932815	2022/04/11	2022/04/11	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7929680	N/A	2022/04/08	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7932924	2022/04/11	2022/04/11	Daniel Teclu
Moisture	BAL	7927195	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7929261	2022/04/08	2022/04/08	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7926762	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHH369
Sample ID: SP3
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926886	N/A	2022/04/12	Automated Statchk
Conductivity	AT	7932815	2022/04/11	2022/04/11	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7929680	N/A	2022/04/08	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7932924	2022/04/11	2022/04/11	Daniel Teclu
Moisture	BAL	7927195	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7929261	2022/04/08	2022/04/08	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7926762	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHH370
Sample ID: SP4
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926886	N/A	2022/04/12	Automated Statchk
Conductivity	AT	7932815	2022/04/11	2022/04/11	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7929680	N/A	2022/04/08	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7932924	2022/04/11	2022/04/11	Daniel Teclu
Moisture	BAL	7927195	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7929261	2022/04/08	2022/04/08	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7926762	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHH371
Sample ID: SP5
Matrix: Soil

Collected: 2022/04/05
Shipped:
Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926886	N/A	2022/04/12	Automated Statchk
Conductivity	AT	7932815	2022/04/11	2022/04/11	Kien Tran



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Bureau Veritas Job #: C290888

Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

TEST SUMMARY

Bureau Veritas ID: SHH371

Sample ID: SP5

Matrix: Soil

Collected: 2022/04/05

Shipped:

Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7929680	N/A	2022/04/08	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7930641	2022/04/08	2022/04/11	Daniel Teclu
Moisture	BAL	7927195	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7929261	2022/04/08	2022/04/08	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7926762	N/A	2022/04/12	Automated Statchk

Bureau Veritas ID: SHH372

Sample ID: SP6

Matrix: Soil

Collected: 2022/04/05

Shipped:

Received: 2022/04/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7926886	N/A	2022/04/12	Automated Statchk
Conductivity	AT	7932815	2022/04/11	2022/04/11	Kien Tran
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7929680	N/A	2022/04/08	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7934252	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7932924	2022/04/11	2022/04/11	Daniel Teclu
Moisture	BAL	7927195	N/A	2022/04/07	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7929261	2022/04/08	2022/04/09	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7926762	N/A	2022/04/12	Automated Statchk



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.7°C
Package 2	2.3°C
Package 3	2.0°C
Package 4	1.7°C

Revised report [2022/05/05]-F1(C6-C10) BTEX & F1(C6-C10) added to sample SHH313-02 as per client request.

Revised report [2022/04/27] - Additional analysis added to sample SHH306 and SHH310 as per client request.

Revised report [2022/04/19] - BTEX/PHC F1-F4 added to sample BH110-3.0-3.7 and BTEX analysis added to sample BH111-3.0-3.7 as per client request.

Sample SHH210 [MW103-1.5-2.1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample SHH314 [BH111-0.8-1.3] : VOCF1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample SHH346 [SP1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample SHH370 [SP4] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample SHH371 [SP5] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C290888

Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7927195	KJP	RPD	Moisture	2022/04/07	5.6		%	20
7929261	JYO	Matrix Spike	D10-Anthracene	2022/04/08		102	%	50 - 130
			D14-Terphenyl (FS)	2022/04/08		101	%	50 - 130
			D8-Acenaphthylene	2022/04/08		93	%	50 - 130
			Acenaphthene	2022/04/08		102	%	50 - 130
			Acenaphthylene	2022/04/08		104	%	50 - 130
			Anthracene	2022/04/08		106	%	50 - 130
			Benzo(a)anthracene	2022/04/08		111	%	50 - 130
			Benzo(a)pyrene	2022/04/08		99	%	50 - 130
			Benzo(b/j)fluoranthene	2022/04/08		98	%	50 - 130
			Benzo(g,h,i)perylene	2022/04/08		96	%	50 - 130
			Benzo(k)fluoranthene	2022/04/08		101	%	50 - 130
			Chrysene	2022/04/08		105	%	50 - 130
			Dibenzo(a,h)anthracene	2022/04/08		114	%	50 - 130
			Fluoranthene	2022/04/08		116	%	50 - 130
			Fluorene	2022/04/08		109	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/04/08		106	%	50 - 130
			1-Methylnaphthalene	2022/04/08		112	%	50 - 130
			2-Methylnaphthalene	2022/04/08		98	%	50 - 130
			Naphthalene	2022/04/08		89	%	50 - 130
			Phenanthrene	2022/04/08		105	%	50 - 130
			Pyrene	2022/04/08		113	%	50 - 130
7929261	JYO	Spiked Blank	D10-Anthracene	2022/04/08		109	%	50 - 130
			D14-Terphenyl (FS)	2022/04/08		101	%	50 - 130
			D8-Acenaphthylene	2022/04/08		96	%	50 - 130
			Acenaphthene	2022/04/08		100	%	50 - 130
			Acenaphthylene	2022/04/08		103	%	50 - 130
			Anthracene	2022/04/08		109	%	50 - 130
			Benzo(a)anthracene	2022/04/08		111	%	50 - 130
			Benzo(a)pyrene	2022/04/08		99	%	50 - 130
			Benzo(b/j)fluoranthene	2022/04/08		100	%	50 - 130
			Benzo(g,h,i)perylene	2022/04/08		95	%	50 - 130
			Benzo(k)fluoranthene	2022/04/08		83	%	50 - 130
			Chrysene	2022/04/08		106	%	50 - 130
			Dibenzo(a,h)anthracene	2022/04/08		105	%	50 - 130
			Fluoranthene	2022/04/08		117	%	50 - 130
			Fluorene	2022/04/08		108	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/04/08		101	%	50 - 130
			1-Methylnaphthalene	2022/04/08		103	%	50 - 130
			2-Methylnaphthalene	2022/04/08		93	%	50 - 130
			Naphthalene	2022/04/08		88	%	50 - 130
			Phenanthrene	2022/04/08		105	%	50 - 130
			Pyrene	2022/04/08		106	%	50 - 130
7929261	JYO	Method Blank	D10-Anthracene	2022/04/08		99	%	50 - 130
			D14-Terphenyl (FS)	2022/04/08		98	%	50 - 130
			D8-Acenaphthylene	2022/04/08		81	%	50 - 130
			Acenaphthene	2022/04/08	<0.0050		ug/g	
			Acenaphthylene	2022/04/08	<0.0050		ug/g	
			Anthracene	2022/04/08	<0.0050		ug/g	
			Benzo(a)anthracene	2022/04/08	<0.0050		ug/g	
			Benzo(a)pyrene	2022/04/08	<0.0050		ug/g	



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Bureau Veritas Job #: C290888

Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7929680	AGA	Matrix Spike	Benzo(b/j)fluoranthene	2022/04/08	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2022/04/08	<0.0050		ug/g	
			Benzo(k)fluoranthene	2022/04/08	<0.0050		ug/g	
			Chrysene	2022/04/08	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2022/04/08	<0.0050		ug/g	
			Fluoranthene	2022/04/08	<0.0050		ug/g	
			Fluorene	2022/04/08	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2022/04/08	<0.0050		ug/g	
			1-Methylnaphthalene	2022/04/08	<0.0050		ug/g	
			2-Methylnaphthalene	2022/04/08	<0.0050		ug/g	
			Naphthalene	2022/04/08	<0.0050		ug/g	
			Phenanthrene	2022/04/08	<0.0050		ug/g	
			Pyrene	2022/04/08	<0.0050		ug/g	
			1,4-Difluorobenzene	2022/04/08		107	%	60 - 140
			4-Bromofluorobenzene	2022/04/08		109	%	60 - 140
			D10-o-Xylene	2022/04/08		89	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/08		100	%	60 - 140
7929680	AGA	Spiked Blank	Benzene	2022/04/08		96	%	50 - 140
			Toluene	2022/04/08		84	%	50 - 140
			Ethylbenzene	2022/04/08		105	%	50 - 140
			o-Xylene	2022/04/08		95	%	50 - 140
			p+m-Xylene	2022/04/08		96	%	50 - 140
			F1 (C6-C10)	2022/04/08		74	%	60 - 140
			1,4-Difluorobenzene	2022/04/08		98	%	60 - 140
			4-Bromofluorobenzene	2022/04/08		94	%	60 - 140
			D10-o-Xylene	2022/04/08		97	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/08		101	%	60 - 140
			Benzene	2022/04/08		100	%	50 - 140
			Toluene	2022/04/08		101	%	50 - 140
			Ethylbenzene	2022/04/08		107	%	50 - 140
			o-Xylene	2022/04/08		103	%	50 - 140
			p+m-Xylene	2022/04/08		99	%	50 - 140
			F1 (C6-C10)	2022/04/08		95	%	80 - 120
			1,4-Difluorobenzene	2022/04/08		101	%	60 - 140
7929680	AGA	Method Blank	4-Bromofluorobenzene	2022/04/08		93	%	60 - 140
			D10-o-Xylene	2022/04/08		78	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/08		106	%	60 - 140
			Benzene	2022/04/08	<0.020		ug/g	
			Toluene	2022/04/08	<0.020		ug/g	
			Ethylbenzene	2022/04/08	<0.020		ug/g	
			o-Xylene	2022/04/08	<0.020		ug/g	
			p+m-Xylene	2022/04/08	<0.040		ug/g	
			Total Xylenes	2022/04/08	<0.040		ug/g	
			F1 (C6-C10)	2022/04/08	<10		ug/g	
			F1 (C6-C10) - BTEX	2022/04/08	<10		ug/g	
			Benzene	2022/04/08	NC		%	50
			Toluene	2022/04/08	NC		%	50
			Ethylbenzene	2022/04/08	NC		%	50
			o-Xylene	2022/04/08	NC		%	50
			p+m-Xylene	2022/04/08	NC		%	50
			Total Xylenes	2022/04/08	NC		%	50



**BUREAU
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Bureau Veritas Job #: C290888
Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK
Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F1 (C6-C10)	2022/04/08	NC		%	30
			F1 (C6-C10) - BTEX	2022/04/08	NC		%	30
7930061	NYS	Spiked Blank	Available (CaCl2) pH	2022/04/08		100	%	97 - 103
7930061	NYS	RPD	Available (CaCl2) pH	2022/04/08	0.28		%	N/A
7930438	KJP	QC Standard	Sieve - #200 (<0.075mm)	2022/04/09		57	%	53 - 58
			Sieve - #200 (>0.075mm)	2022/04/09		43	%	42 - 47
7930438	KJP	RPD [SHH307-01]	Sieve - #200 (<0.075mm)	2022/04/09	0.68		%	20
			Sieve - #200 (>0.075mm)	2022/04/09	4.5		%	20
7930641	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2022/04/11		94	%	75 - 125
			Acid Extractable Arsenic (As)	2022/04/11		100	%	75 - 125
			Acid Extractable Barium (Ba)	2022/04/11		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2022/04/11		101	%	75 - 125
			Acid Extractable Boron (B)	2022/04/11		92	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/04/11		99	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/04/11		99	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/04/11		98	%	75 - 125
			Acid Extractable Copper (Cu)	2022/04/11		94	%	75 - 125
			Acid Extractable Lead (Pb)	2022/04/11		96	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2022/04/11		98	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/04/11		101	%	75 - 125
			Acid Extractable Selenium (Se)	2022/04/11		98	%	75 - 125
			Acid Extractable Silver (Ag)	2022/04/11		97	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/04/11		98	%	75 - 125
			Acid Extractable Uranium (U)	2022/04/11		99	%	75 - 125
			Acid Extractable Vanadium (V)	2022/04/11		92	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/04/11		NC	%	75 - 125
7930641	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2022/04/11		97	%	80 - 120
			Acid Extractable Arsenic (As)	2022/04/11		99	%	80 - 120
			Acid Extractable Barium (Ba)	2022/04/11		103	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/04/11		100	%	80 - 120
			Acid Extractable Boron (B)	2022/04/11		99	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/04/11		94	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/04/11		99	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/04/11		100	%	80 - 120
			Acid Extractable Copper (Cu)	2022/04/11		98	%	80 - 120
			Acid Extractable Lead (Pb)	2022/04/11		99	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2022/04/11		99	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/04/11		101	%	80 - 120
			Acid Extractable Selenium (Se)	2022/04/11		99	%	80 - 120
			Acid Extractable Silver (Ag)	2022/04/11		98	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/04/11		101	%	80 - 120
			Acid Extractable Uranium (U)	2022/04/11		99	%	80 - 120
			Acid Extractable Vanadium (V)	2022/04/11		100	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/04/11		100	%	80 - 120
7930641	DT1	Method Blank	Acid Extractable Antimony (Sb)	2022/04/11	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/04/11	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/04/11	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2022/04/11	<0.20		ug/g	
			Acid Extractable Boron (B)	2022/04/11	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2022/04/11	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/04/11	<1.0		ug/g	



BUREAU
VERITAS

Bureau Veritas Job #: C290888
Report Date: 2022/05/05

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK
Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7930641	DT1	RPD	Acid Extractable Cobalt (Co)	2022/04/11	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/04/11	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/04/11	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/04/11	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/04/11	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2022/04/11	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/04/11	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/04/11	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/04/11	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/04/11	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2022/04/11	<5.0		ug/g	
			Acid Extractable Antimony (Sb)	2022/04/11	NC		%	30
			Acid Extractable Arsenic (As)	2022/04/11	5.4		%	30
			Acid Extractable Barium (Ba)	2022/04/11	2.3		%	30
			Acid Extractable Beryllium (Be)	2022/04/11	2.1		%	30
			Acid Extractable Boron (B)	2022/04/11	NC		%	30
			Acid Extractable Cadmium (Cd)	2022/04/11	6.6		%	30
			Acid Extractable Chromium (Cr)	2022/04/11	2.9		%	30
			Acid Extractable Cobalt (Co)	2022/04/11	0.50		%	30
			Acid Extractable Copper (Cu)	2022/04/11	2.6		%	30
			Acid Extractable Lead (Pb)	2022/04/11	1.8		%	30
			Acid Extractable Molybdenum (Mo)	2022/04/11	NC		%	30
			Acid Extractable Nickel (Ni)	2022/04/11	0.016		%	30
			Acid Extractable Selenium (Se)	2022/04/11	NC		%	30
			Acid Extractable Silver (Ag)	2022/04/11	NC		%	30
			Acid Extractable Thallium (Tl)	2022/04/11	12		%	30
			Acid Extractable Uranium (U)	2022/04/11	3.6		%	30
			Acid Extractable Vanadium (V)	2022/04/11	0.66		%	30
			Acid Extractable Zinc (Zn)	2022/04/11	2.9		%	30
7932121	XII	Matrix Spike [SHH312-02]	4-Bromofluorobenzene	2022/04/11		97	%	60 - 140
			D10-o-Xylene	2022/04/11		96	%	60 - 130
			D4-1,2-Dichloroethane	2022/04/11		90	%	60 - 140
			D8-Toluene	2022/04/11		105	%	60 - 140
			Acetone (2-Propanone)	2022/04/11		81	%	60 - 140
			Benzene	2022/04/11		88	%	60 - 140
			Bromodichloromethane	2022/04/11		90	%	60 - 140
			Bromoform	2022/04/11		84	%	60 - 140
			Bromomethane	2022/04/11		100	%	60 - 140
			Carbon Tetrachloride	2022/04/11		97	%	60 - 140
			Chlorobenzene	2022/04/11		92	%	60 - 140
			Chloroform	2022/04/11		91	%	60 - 140
			Dibromochloromethane	2022/04/11		83	%	60 - 140
			1,2-Dichlorobenzene	2022/04/11		89	%	60 - 140
			1,3-Dichlorobenzene	2022/04/11		92	%	60 - 140
			1,4-Dichlorobenzene	2022/04/11		104	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2022/04/11		93	%	60 - 140
			1,1-Dichloroethane	2022/04/11		90	%	60 - 140
			1,2-Dichloroethane	2022/04/11		81	%	60 - 140
			1,1-Dichloroethylene	2022/04/11		94	%	60 - 140
			cis-1,2-Dichloroethylene	2022/04/11		94	%	60 - 140
			trans-1,2-Dichloroethylene	2022/04/11		94	%	60 - 140



**BUREAU
VERITAS**

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BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7932121	XII	Spiked Blank	1,2-Dichloropropane	2022/04/11		91	%	60 - 140
			cis-1,3-Dichloropropene	2022/04/11		83	%	60 - 140
			trans-1,3-Dichloropropene	2022/04/11		84	%	60 - 140
			Ethylbenzene	2022/04/11		NC	%	60 - 140
			Ethylene Dibromide	2022/04/11		82	%	60 - 140
			Hexane	2022/04/11		98	%	60 - 140
			Methylene Chloride(Dichloromethane)	2022/04/11		91	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2022/04/11		80	%	60 - 140
			Methyl Isobutyl Ketone	2022/04/11		82	%	60 - 140
			Methyl t-butyl ether (MTBE)	2022/04/11		78	%	60 - 140
			Styrene	2022/04/11		98	%	60 - 140
			1,1,1,2-Tetrachloroethane	2022/04/11		91	%	60 - 140
			1,1,2,2-Tetrachloroethane	2022/04/11		78	%	60 - 140
			Tetrachloroethylene	2022/04/11		89	%	60 - 140
			Toluene	2022/04/11		88	%	60 - 140
			1,1,1-Trichloroethane	2022/04/11		96	%	60 - 140
			1,1,2-Trichloroethane	2022/04/11		85	%	60 - 140
			Trichloroethylene	2022/04/11		99	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2022/04/11		101	%	60 - 140
			Vinyl Chloride	2022/04/11		106	%	60 - 140
			p+m-Xylene	2022/04/11		NC	%	60 - 140
			o-Xylene	2022/04/11		88	%	60 - 140
			F1 (C6-C10)	2022/04/11		NC	%	60 - 140
			4-Bromofluorobenzene	2022/04/11		98	%	60 - 140
			D10-o-Xylene	2022/04/11		97	%	60 - 130
			D4-1,2-Dichloroethane	2022/04/11		102	%	60 - 140
			D8-Toluene	2022/04/11		108	%	60 - 140
			Acetone (2-Propanone)	2022/04/11		99	%	60 - 140
			Benzene	2022/04/11		97	%	60 - 130
			Bromodichloromethane	2022/04/11		103	%	60 - 130
			Bromoform	2022/04/11		103	%	60 - 130
			Bromomethane	2022/04/11		111	%	60 - 140
			Carbon Tetrachloride	2022/04/11		109	%	60 - 130
			Chlorobenzene	2022/04/11		98	%	60 - 130
			Chloroform	2022/04/11		104	%	60 - 130
			Dibromochloromethane	2022/04/11		99	%	60 - 130
			1,2-Dichlorobenzene	2022/04/11		96	%	60 - 130
			1,3-Dichlorobenzene	2022/04/11		89	%	60 - 130
			1,4-Dichlorobenzene	2022/04/11		105	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2022/04/11		107	%	60 - 140
			1,1-Dichloroethane	2022/04/11		103	%	60 - 130
			1,2-Dichloroethane	2022/04/11		96	%	60 - 130
			1,1-Dichloroethylene	2022/04/11		104	%	60 - 130
			cis-1,2-Dichloroethylene	2022/04/11		108	%	60 - 130
			trans-1,2-Dichloroethylene	2022/04/11		106	%	60 - 130
			1,2-Dichloropropane	2022/04/11		102	%	60 - 130
			cis-1,3-Dichloropropene	2022/04/11		78	%	60 - 130
			trans-1,3-Dichloropropene	2022/04/11		83	%	60 - 130
			Ethylbenzene	2022/04/11		84	%	60 - 130
			Ethylene Dibromide	2022/04/11		95	%	60 - 130
			Hexane	2022/04/11		108	%	60 - 130



**BUREAU
VERITAS**

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Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7932121	XII	Method Blank	Methylene Chloride(Dichloromethane)	2022/04/11		106	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/04/11		97	%	60 - 140
			Methyl Isobutyl Ketone	2022/04/11		90	%	60 - 130
			Methyl t-butyl ether (MTBE)	2022/04/11		88	%	60 - 130
			Styrene	2022/04/11		96	%	60 - 130
			1,1,1,2-Tetrachloroethane	2022/04/11		105	%	60 - 130
			1,1,2,2-Tetrachloroethane	2022/04/11		92	%	60 - 130
			Tetrachloroethylene	2022/04/11		101	%	60 - 130
			Toluene	2022/04/11		95	%	60 - 130
			1,1,1-Trichloroethane	2022/04/11		108	%	60 - 130
			1,1,2-Trichloroethane	2022/04/11		101	%	60 - 130
			Trichloroethylene	2022/04/11		108	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2022/04/11		114	%	60 - 130
			Vinyl Chloride	2022/04/11		122	%	60 - 130
			p+m-Xylene	2022/04/11		88	%	60 - 130
			o-Xylene	2022/04/11		85	%	60 - 130
			F1 (C6-C10)	2022/04/11		97	%	80 - 120
			4-Bromofluorobenzene	2022/04/11		86	%	60 - 140
			D10-o-Xylene	2022/04/11		80	%	60 - 130
			D4-1,2-Dichloroethane	2022/04/11		105	%	60 - 140
			D8-Toluene	2022/04/11		95	%	60 - 140
			Acetone (2-Propanone)	2022/04/11	<0.49		ug/g	
			Benzene	2022/04/11	<0.0060		ug/g	
			Bromodichloromethane	2022/04/11	<0.040		ug/g	
			Bromoform	2022/04/11	<0.040		ug/g	
			Bromomethane	2022/04/11	<0.040		ug/g	
			Carbon Tetrachloride	2022/04/11	<0.040		ug/g	
			Chlorobenzene	2022/04/11	<0.040		ug/g	
			Chloroform	2022/04/11	<0.040		ug/g	
			Dibromochloromethane	2022/04/11	<0.040		ug/g	
			1,2-Dichlorobenzene	2022/04/11	<0.040		ug/g	
			1,3-Dichlorobenzene	2022/04/11	<0.040		ug/g	
			1,4-Dichlorobenzene	2022/04/11	<0.040		ug/g	
			Dichlorodifluoromethane (FREON 12)	2022/04/11	<0.040		ug/g	
			1,1-Dichloroethane	2022/04/11	<0.040		ug/g	
			1,2-Dichloroethane	2022/04/11	<0.049		ug/g	
			1,1-Dichloroethylene	2022/04/11	<0.040		ug/g	
			cis-1,2-Dichloroethylene	2022/04/11	<0.040		ug/g	
			trans-1,2-Dichloroethylene	2022/04/11	<0.040		ug/g	
			1,2-Dichloropropane	2022/04/11	<0.040		ug/g	
			cis-1,3-Dichloropropene	2022/04/11	<0.030		ug/g	
			trans-1,3-Dichloropropene	2022/04/11	<0.040		ug/g	
			Ethylbenzene	2022/04/11	<0.010		ug/g	
			Ethylene Dibromide	2022/04/11	<0.040		ug/g	
			Hexane	2022/04/11	<0.040		ug/g	
			Methylene Chloride(Dichloromethane)	2022/04/11	<0.049		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2022/04/11	<0.40		ug/g	
			Methyl Isobutyl Ketone	2022/04/11	<0.40		ug/g	
			Methyl t-butyl ether (MTBE)	2022/04/11	<0.040		ug/g	
			Styrene	2022/04/11	<0.040		ug/g	
			1,1,1,2-Tetrachloroethane	2022/04/11	<0.040		ug/g	



BUREAU
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Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7932121	XII	RPD [SHH312-02]	1,1,2,2-Tetrachloroethane	2022/04/11	<0.040		ug/g	
			Tetrachloroethylene	2022/04/11	<0.040		ug/g	
			Toluene	2022/04/11	<0.020		ug/g	
			1,1,1-Trichloroethane	2022/04/11	<0.040		ug/g	
			1,1,2-Trichloroethane	2022/04/11	<0.040		ug/g	
			Trichloroethylene	2022/04/11	<0.010		ug/g	
			Trichlorofluoromethane (FREON 11)	2022/04/11	<0.040		ug/g	
			Vinyl Chloride	2022/04/11	<0.019		ug/g	
			p+m-Xylene	2022/04/11	<0.020		ug/g	
			o-Xylene	2022/04/11	<0.020		ug/g	
			Total Xylenes	2022/04/11	<0.020		ug/g	
			F1 (C6-C10)	2022/04/11	<10		ug/g	
			F1 (C6-C10) - BTEX	2022/04/11	<10		ug/g	
			Acetone (2-Propanone)	2022/04/12	NC		%	50
			Benzene	2022/04/12	NC		%	50
			Bromodichloromethane	2022/04/12	NC		%	50
			Bromoform	2022/04/12	NC		%	50
			Bromomethane	2022/04/12	NC		%	50
			Carbon Tetrachloride	2022/04/12	NC		%	50
			Chlorobenzene	2022/04/12	NC		%	50
			Chloroform	2022/04/12	NC		%	50
			Dibromochloromethane	2022/04/12	NC		%	50
			1,2-Dichlorobenzene	2022/04/12	NC		%	50
			1,3-Dichlorobenzene	2022/04/12	NC		%	50
			1,4-Dichlorobenzene	2022/04/12	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2022/04/12	NC		%	50
			1,1-Dichloroethane	2022/04/12	NC		%	50
			1,2-Dichloroethane	2022/04/12	NC		%	50
			1,1-Dichloroethylene	2022/04/12	NC		%	50
			cis-1,2-Dichloroethylene	2022/04/12	NC		%	50
			trans-1,2-Dichloroethylene	2022/04/12	NC		%	50
			1,2-Dichloropropane	2022/04/12	NC		%	50
			cis-1,3-Dichloropropene	2022/04/12	NC		%	50
			trans-1,3-Dichloropropene	2022/04/12	NC		%	50
			Ethylbenzene	2022/04/12	10		%	50
			Ethylene Dibromide	2022/04/12	NC		%	50
			Hexane	2022/04/12	21		%	50
			Methylene Chloride(Dichloromethane)	2022/04/12	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2022/04/12	NC		%	50
			Methyl Isobutyl Ketone	2022/04/12	NC		%	50
			Methyl t-butyl ether (MTBE)	2022/04/12	NC		%	50
			Styrene	2022/04/12	NC		%	50
			1,1,1,2-Tetrachloroethane	2022/04/12	NC		%	50
			1,1,2,2-Tetrachloroethane	2022/04/12	NC		%	50
			Tetrachloroethylene	2022/04/12	NC		%	50
			Toluene	2022/04/12	NC		%	50
			1,1,1-Trichloroethane	2022/04/12	NC		%	50
			1,1,2-Trichloroethane	2022/04/12	NC		%	50
			Trichloroethylene	2022/04/12	NC		%	50
			Trichlorofluoromethane (FREON 11)	2022/04/12	NC		%	50
			Vinyl Chloride	2022/04/12	NC		%	50



**BUREAU
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			p+m-Xylene	2022/04/12	15		%	50
			o-Xylene	2022/04/12	NC		%	50
			Total Xylenes	2022/04/12	15		%	50
			F1 (C6-C10)	2022/04/12	10		%	30
			F1 (C6-C10) - BTEX	2022/04/12	10		%	30
7932815	KIT	Spiked Blank	Conductivity	2022/04/11		98	%	90 - 110
7932815	KIT	Method Blank	Conductivity	2022/04/11	<0.002		mS/cm	
7932815	KIT	RPD	Conductivity	2022/04/11	1.2		%	10
7932924	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2022/04/11		97	%	75 - 125
			Acid Extractable Arsenic (As)	2022/04/11		103	%	75 - 125
			Acid Extractable Barium (Ba)	2022/04/11		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2022/04/11		106	%	75 - 125
			Acid Extractable Boron (B)	2022/04/11		99	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/04/11		102	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/04/11		104	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/04/11		103	%	75 - 125
			Acid Extractable Copper (Cu)	2022/04/11		98	%	75 - 125
			Acid Extractable Lead (Pb)	2022/04/11		104	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2022/04/11		101	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/04/11		104	%	75 - 125
			Acid Extractable Selenium (Se)	2022/04/11		102	%	75 - 125
			Acid Extractable Silver (Ag)	2022/04/11		105	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/04/11		106	%	75 - 125
			Acid Extractable Uranium (U)	2022/04/11		106	%	75 - 125
			Acid Extractable Vanadium (V)	2022/04/11		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/04/11		NC	%	75 - 125
7932924	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2022/04/11		98	%	80 - 120
			Acid Extractable Arsenic (As)	2022/04/11		99	%	80 - 120
			Acid Extractable Barium (Ba)	2022/04/11		101	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/04/11		98	%	80 - 120
			Acid Extractable Boron (B)	2022/04/11		98	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/04/11		95	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/04/11		100	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/04/11		98	%	80 - 120
			Acid Extractable Copper (Cu)	2022/04/11		95	%	80 - 120
			Acid Extractable Lead (Pb)	2022/04/11		103	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2022/04/11		98	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/04/11		98	%	80 - 120
			Acid Extractable Selenium (Se)	2022/04/11		105	%	80 - 120
			Acid Extractable Silver (Ag)	2022/04/11		98	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/04/11		104	%	80 - 120
			Acid Extractable Uranium (U)	2022/04/11		101	%	80 - 120
			Acid Extractable Vanadium (V)	2022/04/11		98	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/04/11		98	%	80 - 120
7932924	DT1	Method Blank	Acid Extractable Antimony (Sb)	2022/04/11	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/04/11	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/04/11	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2022/04/11	<0.20		ug/g	
			Acid Extractable Boron (B)	2022/04/11	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2022/04/11	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/04/11	<1.0		ug/g	



**BUREAU
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BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD, STONEY CREEK

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7932924	DT1	RPD	Acid Extractable Cobalt (Co)	2022/04/11	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/04/11	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/04/11	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/04/11	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/04/11	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2022/04/11	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/04/11	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/04/11	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/04/11	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/04/11	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2022/04/11	<5.0		ug/g	
			Acid Extractable Antimony (Sb)	2022/04/11	NC		%	30
			Acid Extractable Arsenic (As)	2022/04/11	3.6		%	30
			Acid Extractable Barium (Ba)	2022/04/11	2.0		%	30
			Acid Extractable Beryllium (Be)	2022/04/11	1.7		%	30
			Acid Extractable Boron (B)	2022/04/11	NC		%	30
			Acid Extractable Cadmium (Cd)	2022/04/11	5.7		%	30
			Acid Extractable Chromium (Cr)	2022/04/11	0.35		%	30
			Acid Extractable Cobalt (Co)	2022/04/11	0.27		%	30
			Acid Extractable Copper (Cu)	2022/04/11	4.8		%	30
			Acid Extractable Lead (Pb)	2022/04/11	0.97		%	30
			Acid Extractable Molybdenum (Mo)	2022/04/11	NC		%	30
			Acid Extractable Nickel (Ni)	2022/04/11	2.5		%	30
			Acid Extractable Selenium (Se)	2022/04/11	NC		%	30
			Acid Extractable Silver (Ag)	2022/04/11	NC		%	30
			Acid Extractable Thallium (Tl)	2022/04/11	0.86		%	30
			Acid Extractable Uranium (U)	2022/04/11	1.4		%	30
			Acid Extractable Vanadium (V)	2022/04/11	3.3		%	30
			Acid Extractable Zinc (Zn)	2022/04/11	0.042		%	30
7933546	MBW	RPD	Moisture	2022/04/11	0		%	20
7934252	ABS	Matrix Spike	o-Terphenyl	2022/04/11		101	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11		105	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/04/11		111	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/04/11		115	%	60 - 130
7934252	ABS	Spiked Blank	o-Terphenyl	2022/04/11		98	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11		100	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2022/04/11		106	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2022/04/11		109	%	80 - 120
7934252	ABS	Method Blank	o-Terphenyl	2022/04/11		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2022/04/11	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2022/04/11	<50		ug/g	
7934252	ABS	RPD	F2 (C10-C16 Hydrocarbons)	2022/04/12	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/04/12	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/04/12	NC		%	30
			o-Terphenyl	2022/04/12		91	%	60 - 130
7935148	DNO	Matrix Spike	F2 (C10-C16 Hydrocarbons)	2022/04/12		99	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/04/12		101	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/04/12		101	%	60 - 130
			o-Terphenyl	2022/04/12		88	%	60 - 130
7935148	DNO	Spiked Blank	F2 (C10-C16 Hydrocarbons)	2022/04/12		97	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7935148	DN0	Method Blank	F3 (C16-C34 Hydrocarbons)	2022/04/12		99	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2022/04/12		98	%	80 - 120
			o-Terphenyl	2022/04/12		88	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/12	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2022/04/12	<50		ug/g	
7935148	DN0	RPD	F4 (C34-C50 Hydrocarbons)	2022/04/12	<50		ug/g	
			F2 (C10-C16 Hydrocarbons)	2022/04/12	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/04/12	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/04/12	NC		%	30
7935873	SB3	RPD [SHH337-01]	Moisture	2022/04/12	1.5		%	20
7940216	RDU	Matrix Spike	F4G-sg (Grav. Heavy Hydrocarbons)	2022/04/14		95	%	65 - 135
7940216	RDU	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2022/04/14		102	%	65 - 135
7940216	RDU	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2022/04/14	<100		ug/g	
7940216	RDU	RPD	F4G-sg (Grav. Heavy Hydrocarbons)	2022/04/14	13		%	50
7944240	MBW	RPD	Moisture	2022/04/18	4.2		%	20
7944454	H_W	Matrix Spike [SHH313-02]	1,4-Difluorobenzene	2022/04/18		93	%	60 - 140
			4-Bromofluorobenzene	2022/04/18		96	%	60 - 140
			D10-o-Xylene	2022/04/18		97	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/18		90	%	60 - 140
			Benzene	2022/04/18		85	%	50 - 140
			Toluene	2022/04/18		89	%	50 - 140
			Ethylbenzene	2022/04/18		100	%	50 - 140
			o-Xylene	2022/04/18		93	%	50 - 140
			p+m-Xylene	2022/04/18		94	%	50 - 140
			F1 (C6-C10)	2022/04/18		86	%	60 - 140
			1,4-Difluorobenzene	2022/04/18		95	%	60 - 140
			4-Bromofluorobenzene	2022/04/18		100	%	60 - 140
			D10-o-Xylene	2022/04/18		95	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/18		90	%	60 - 140
			Benzene	2022/04/18		92	%	50 - 140
7944454	H_W	Spiked Blank	Toluene	2022/04/18		94	%	50 - 140
			Ethylbenzene	2022/04/18		106	%	50 - 140
			o-Xylene	2022/04/18		98	%	50 - 140
			p+m-Xylene	2022/04/18		99	%	50 - 140
			F1 (C6-C10)	2022/04/18		88	%	80 - 120
			1,4-Difluorobenzene	2022/04/18		107	%	60 - 140
			4-Bromofluorobenzene	2022/04/18		83	%	60 - 140
			D10-o-Xylene	2022/04/18		102	%	60 - 140
			D4-1,2-Dichloroethane	2022/04/18		103	%	60 - 140
			Benzene	2022/04/18	<0.020		ug/g	
			Toluene	2022/04/18	<0.020		ug/g	
			Ethylbenzene	2022/04/18	<0.020		ug/g	
			o-Xylene	2022/04/18	<0.020		ug/g	
			p+m-Xylene	2022/04/18	<0.040		ug/g	
			Total Xylenes	2022/04/18	<0.040		ug/g	
7944454	H_W	Method Blank	F1 (C6-C10)	2022/04/18	<10		ug/g	
			F1 (C6-C10) - BTEX	2022/04/18	<10		ug/g	
			Benzene	2022/04/18	NC		%	50
			Toluene	2022/04/18	NC		%	50
			Ethylbenzene	2022/04/18	NC		%	50
7944454	H_W	RPD [SHH313-02]	o-Xylene	2022/04/18	NC		%	50



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7944475	KTR	Matrix Spike [SHH313-01]	p+m-Xylene	2022/04/18	NC		%	50
			Total Xylenes	2022/04/18	NC		%	50
			F1 (C6-C10)	2022/04/18	NC		%	30
			F1 (C6-C10) - BTEX	2022/04/18	NC		%	30
			o-Terphenyl	2022/04/18		98	%	60 - 130
7944475	KTR	Spiked Blank	F2 (C10-C16 Hydrocarbons)	2022/04/18		100	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/04/18		104	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/04/18		109	%	60 - 130
			o-Terphenyl	2022/04/18		87	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/18		87	%	80 - 120
7944475	KTR	Method Blank	F3 (C16-C34 Hydrocarbons)	2022/04/18		93	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2022/04/18		96	%	80 - 120
			o-Terphenyl	2022/04/18		97	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/18	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2022/04/18	<50		ug/g	
7944475	KTR	RPD [SHH313-01]	F4 (C34-C50 Hydrocarbons)	2022/04/18	<50		ug/g	
			F2 (C10-C16 Hydrocarbons)	2022/04/18	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/04/18	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/04/18	NC		%	30
			Sieve - #200 (<0.075mm)	2022/04/27		57	%	53 - 58
7960606	MYG	QC Standard	Sieve - #200 (>0.075mm)	2022/04/27		43	%	42 - 47
			Sieve - #200 (<0.075mm)	2022/04/27	0.32		%	20
7960606	MYG	RPD	Sieve - #200 (>0.075mm)	2022/04/27	3.4		%	20
			Sieve - #200 (<0.075mm)	2022/04/27			%	
7961480	PBA	Matrix Spike	Acid Extractable Antimony (Sb)	2022/04/27		103	%	75 - 125
			Acid Extractable Arsenic (As)	2022/04/27		104	%	75 - 125
			Acid Extractable Barium (Ba)	2022/04/27		101	%	75 - 125
			Acid Extractable Beryllium (Be)	2022/04/27		98	%	75 - 125
			Acid Extractable Boron (B)	2022/04/27		97	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/04/27		100	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/04/27		104	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/04/27		99	%	75 - 125
			Acid Extractable Copper (Cu)	2022/04/27		100	%	75 - 125
			Acid Extractable Lead (Pb)	2022/04/27		96	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2022/04/27		100	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/04/27		101	%	75 - 125
			Acid Extractable Selenium (Se)	2022/04/27		101	%	75 - 125
			Acid Extractable Silver (Ag)	2022/04/27		98	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/04/27		97	%	75 - 125
			Acid Extractable Uranium (U)	2022/04/27		100	%	75 - 125
			Acid Extractable Vanadium (V)	2022/04/27		106	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/04/27		106	%	75 - 125
			Acid Extractable Antimony (Sb)	2022/04/27		100	%	80 - 120
			Acid Extractable Arsenic (As)	2022/04/27		99	%	80 - 120
			Acid Extractable Barium (Ba)	2022/04/27		99	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/04/27		99	%	80 - 120
			Acid Extractable Boron (B)	2022/04/27		93	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/04/27		96	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/04/27		98	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/04/27		98	%	80 - 120
			Acid Extractable Copper (Cu)	2022/04/27		97	%	80 - 120
			Acid Extractable Lead (Pb)	2022/04/27		97	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7961480	PBA	Method Blank	Acid Extractable Molybdenum (Mo)	2022/04/27		97	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/04/27		101	%	80 - 120
			Acid Extractable Selenium (Se)	2022/04/27		102	%	80 - 120
			Acid Extractable Silver (Ag)	2022/04/27		96	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/04/27		97	%	80 - 120
			Acid Extractable Uranium (U)	2022/04/27		98	%	80 - 120
			Acid Extractable Vanadium (V)	2022/04/27		99	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/04/27		101	%	80 - 120
			Acid Extractable Antimony (Sb)	2022/04/27	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/04/27	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/04/27	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2022/04/27	<0.20		ug/g	
			Acid Extractable Boron (B)	2022/04/27	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2022/04/27	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/04/27	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2022/04/27	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/04/27	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/04/27	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/04/27	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/04/27	<0.50		ug/g	
7961480	PBA	RPD	Acid Extractable Selenium (Se)	2022/04/27	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/04/27	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/04/27	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/04/27	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/04/27	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2022/04/27	<5.0		ug/g	
			Acid Extractable Antimony (Sb)	2022/04/27	NC		%	30
			Acid Extractable Arsenic (As)	2022/04/27	0.96		%	30
			Acid Extractable Barium (Ba)	2022/04/27	27		%	30
			Acid Extractable Beryllium (Be)	2022/04/27	NC		%	30
			Acid Extractable Boron (B)	2022/04/27	NC		%	30
			Acid Extractable Cadmium (Cd)	2022/04/27	NC		%	30
			Acid Extractable Chromium (Cr)	2022/04/27	11		%	30
			Acid Extractable Cobalt (Co)	2022/04/27	3.1		%	30
			Acid Extractable Copper (Cu)	2022/04/27	7.7		%	30
			Acid Extractable Lead (Pb)	2022/04/27	13		%	30
			Acid Extractable Molybdenum (Mo)	2022/04/27	NC		%	30
			Acid Extractable Nickel (Ni)	2022/04/27	3.9		%	30
			Acid Extractable Selenium (Se)	2022/04/27	NC		%	30
			Acid Extractable Silver (Ag)	2022/04/27	NC		%	30
7961496	TAK	Spiked Blank	Acid Extractable Thallium (Tl)	2022/04/27	NC		%	30
			Acid Extractable Uranium (U)	2022/04/27	8.1		%	30
7961496	TAK	Spiked Blank	Acid Extractable Vanadium (V)	2022/04/27	15		%	30
			Acid Extractable Zinc (Zn)	2022/04/27	5.3		%	30
7961496	TAK	Spiked Blank	Available (CaCl ₂) pH	2022/04/27		100	%	97 - 103



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7961496	TAK	RPD	Available (CaCl2) pH	2022/04/27	1.0		%	N/A
N/A = Not Applicable								
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 sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.								
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
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 (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)								
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).								



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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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CAM FCD-01191/5

CHAIN OF CUSTODY RECORD

Page 1 of 4

Invoice Information		Report Information (if differs from invoice)		Project Information (where applicable)		Turnaround Time (TAT) Required	
Company Name: Bluefrog Environmental Consulting Inc		Company Name:		Quotation #:		☒ Regular TAT (5-7 days) Most analyses	
Contact Name: Oshin Gharabegian		Contact Name:		P.O. #/ AFE#:		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS	
Address: Suite 100-208 Wyecroft Ave, L6K3T8 Oakville, ON		Address:		Project #: 0138-001.02		Rush TAT (Surcharges will be applied)	
Phone: 416-579-2545 Fax:		Phone: Fax:		Site Location: 1310 South Service Rd, Stoney Creek		☐ 1 Day ☐ 2 Days ☐ 3-4 Days	
Email: ogharabegian@bluefrogconsulting.ca		Email:		Site #:		Date Required:	
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY				Site Location Province: ON		Rush Confirmation #:	
Sampled By: CFM				Analysis Requested		LABORATORY USE ONLY	
Regulation 153		Other Regulations				CUSTODY SEAL	
☐ Table 1 ☒ Res/Park ☐ Med/ Fine		☐ CCME ☐ Sanitary Sewer Bylaw				Y / N	
☐ Table 2 ☐ Ind/Comm ☒ Coarse		☐ MISA ☐ Storm Sewer Bylaw				Present Intact	
☐ Table 3 ☐ Agri/ Other		☐ PWQO Region				COOLER TEMPERATURES	
☒ Table 7		☐ Other (Specify)					
FOR RSC (PLEASE CIRCLE) Y / N		☐ REG 558 (MIN. 3 DAY TAT REQUIRED)					
Include Criteria on Certificate of Analysis: Y / N						COOLING MEDIA PRESENT: Y / N	
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS						COMMENTS	
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	HOLD- DO NOT ANALYZE
1	BH101-1.5-2.1	2022-03-30	1230	SOIL	4	X X X	X
2	BH102-1.5-2.1	2022-03-30	1530	SOIL	4	X X X	X
3	MW103-0.7-1.4	2022-03-31	1040	SOIL	1		
4	MW103-1.5-2.1	2022-03-31	1030	SOIL	4	X X	X
5	MW103-3.0-3.6	2022-03-31	1100	SOIL	3	X X X	X
6	BH104-0.7-1.4	2022-03-31	1310	SOIL	1		X
7	BH104-1.5-2.1	2022-03-31	1320	SOIL	4	X X X	X
8	BH104-2.2-2.9	2022-03-31	1330	SOIL	1		X
9	MW105-1.5-2.1	2022-03-31	1600	SOIL	4	X X X	X
10	MW105-3.0-3.7	2022-03-31	1605	SOIL	4	X X X	X
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)
		2022/04/06	10:00			2022/04/06	11:16

06-Apr-22 11:16

Deepthi Shaji



C290888

SPI ENV-1737

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CHAIN OF CUSTODY RECORD

Page 2 OF 4

Invoice Information		Report Information (if differs from invoice)		Project Information (where applicable)		Turnaround Time (TAT) Required	
Company Name: Bluefrog Environmental Consulting Inc		Company Name:		Quotation #:		☒ Regular TAT (5-7 days) Most analyses	
Contact Name: Oshin Gharabegian		Contact Name:		P.O. #/ AFE#:		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS	
Address: Suite 100-208 Wycroft Ave, L6K3T8 Oakville, ON		Address:		Project #: 0138-001.02		Rush TAT (Surcharges will be applied)	
Phone: 416-579-2545 Fax:		Phone: Fax:		Site Location: 1310 South Service Rd, Stoney Creek		☐ 1 Day ☐ 2 Days ☐ 3-4 Days	
Email: ogharabegian@bluefrogconsulting.ca		Email:		Site #:		Date Required:	
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY				Site Location Province: ON		Rush Confirmation #:	
				Sampled By: CFM			
Regulation 153		Other Regulations		Analysis Requested		LABORATORY USE ONLY	
☐ Table 1 ☒ Res/Park ☐ Med/ Fine		☐ CCME ☐ Sanitary Sewer Bylaw				CUSTODY SEAL	
☐ Table 2 ☐ Ind/Comm ☒ Coarse		☐ MISA ☐ Storm Sewer Bylaw				Y / N	
☐ Table 3 ☐ Agri/ Other		☐ PWQO Region				Present Intact	
☒ Table 7		☐ Other (Specify)				COOLER TEMPERATURES	
FOR RSC (PLEASE CIRCLE) Y / N		☐ REG 558 (MIN. 3 DAY TAT REQUIRED)				<i>Handwritten signature</i>	
Include Criteria on Certificate of Analysis: Y / N						COOLING MEDIA PRESENT: Y / N	
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS						COMMENTS	
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH-MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	HOLD- DO NOT ANALYZE
1	MW106-1.5-2.1	2022-04-01	1000	SOIL	4	X X X	X
2	MW107-1.5-2.1	2022-04-01	1350	SOIL	4	X X X	X
3	MW107-2.2-2.9	2022-04-01	1410	SOIL	1		X
4	MW107-0.7-1.4	2022-04-01	1430	SOIL	1		X
5	BH108-0.8-1.3	2022-04-04	1100	SOIL	1		X
6	BH108-1.5-2.1	2022-04-04	1115	SOIL	5	x x x	x
7	BH109-1.5-2.1	2022-04-04	1500	SOIL	4	X X X	X
8	BH110-0.8-1.3	2022-04-04	1630	SOIL	3	X X X	
9	BH110-3.0-3.7	2022-04-04	1640	SOIL	3	X X X	X
10	BH111-0.8-1.3	2022-04-05	1010	SOIL	3	X X X	
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH-MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH-MM)
<i>Caroline MacQueen</i>		2022/04/06	10:06	<i>[Signature]</i>		2022/04/06	11:10
BV JOB #							

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CHAIN OF CUSTODY RECORD

Page 3 OF 4

Invoice Information		Report Information (if differs from invoice)		Project Information (where applicable)		Turnaround Time (TAT) Required												
Company Name: Bluefrog Environmental Consulting Inc		Company Name:		Quotation #:		☒ Regular TAT (5-7 days) Most analyses												
Contact Name: Oshin Gharabegian		Contact Name:		P.O. #/ AFE#:		PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS												
Address: Suite 100-208 Wyecroft Ave, L6K3T8 Oakville, ON		Address:		Project #: 0138-001.02		Rush TAT (Surcharges will be applied)												
Phone: 416-579-2545 Fax:		Phone: Fax:		Site Location: 1310 South Service Rd, Stoney Creek		☐ 1 Day ☐ 2 Days ☐ 3-4 Days												
Email: ogharabegian@bluefrogconsulting.ca		Email:		Site #:		Date Required:												
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY				Site Location Province: ON		Rush Confirmation #:												
Sampled By: CFM																		
Regulation 153		Other Regulations		Analysis Requested												LABORATORY USE ONLY		
☐ Table 1 ☒ Res/Park ☐ Med/ Fine		☐ CCME ☐ Sanitary Sewer Bylaw														CUSTODY SEAL Y / N		
☐ Table 2 ☐ Ind/Comm ☒ Coarse		☐ MISA ☐ Storm Sewer Bylaw														COOLER TEMPERATURES		
☐ Table 3 ☐ Agri/ Other		☐ PWQO Region:														Present Intact		
☒ Table 7		☐ Other (Specify)																
FOR RSC (PLEASE CIRCLE) Y / N		☐ REG 558 (MIN. 3 DAY TAT REQUIRED)																
Include Criteria on Certificate of Analysis: Y / N																		
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																		
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX / PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	CaCl2 Extract, Solvex 75 um	PAHS	SAR AND EC	HOLD - DO NOT ANALYZE	COMMENTS	
1	BH111-1.5-2.1	2022-04-05	1015	SOIL	3		X	X	X									
2	BH111-3.0-3.7	2022-04-05	1000	SOIL	3		X	X	X								X	
3	MW112-1.5-2.1	2022-04-05	1140	SOIL	4		X	X	X		X							
4	MW112-5.3-5.9	2022-04-05	1130	SOIL	4		X	X	X		X							
5	DUP-1	2022-04-05	1131	SOIL	3		X	X										
6	MW113-1.5-2.1	2022-04-05	1330	SOIL	4		X	X	X		X			X				
7	MW113-4.5-5.2	2022-04-05	1345	SOIL	4		X	X	X		X			X			X	
8	MW114-2.3-2.9	2022-04-05	1510	SOIL	4		X	X	X		X							
9	MW114-4.6-5.2	2022-04-05	1515	SOIL	4		X	X	X		X						X	
10	SP1	2022-04-05	1640	SOIL	4		X	X			X			X	X			
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)		TIME: (HH:MM)		BV JOB #								
<i>Caroline MacGowan</i>		2022/04/06	1000	<i>[Signature]</i>		2022/04/06		1116										

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CAM FCD-01191/5

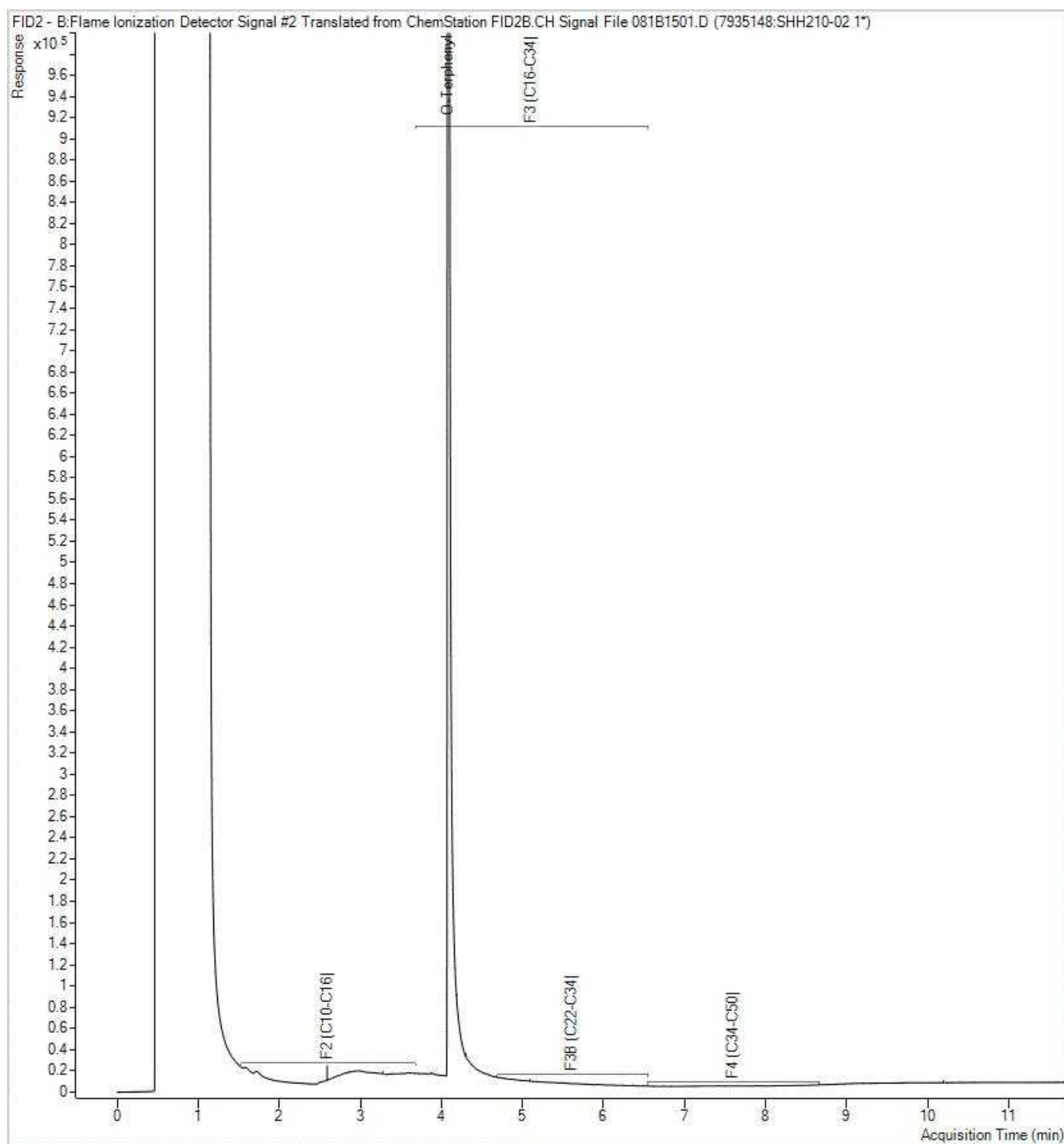
CHAIN OF CUSTODY RECORD

Page 4 OF 4

Invoice Information		Report Information (if differs from invoice)		Project Information (where applicable)		Turnaround Time (TAT) Required	
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Address: Suite 100-208 Wyecroft Ave, L6K3T8 Oakville, ON		Address:		Project #: 0138-001.02		Rush TAT (Surcharges will be applied)	
Phone: 416-579-2545 Fax:		Phone: Fax:		Site Location: 1310 South Service Rd, Stoney Creek		☐ 1 Day ☐ 2 Days ☐ 3-4 Days	
Email: ogharabegian@bluefrogconsulting.ca		Email:		Site #:		Date Required:	
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES' DRINKING WATER CHAIN OF CUSTODY				Site Location Province: ON		Rush Confirmation #:	
Sampled By: CFM							
Regulation 153		Other Regulations		Analysis Requested		LABORATORY USE ONLY	
☐ Table 1 ☒ Res/Park ☐ Med/ Fine		☐ CCME ☐ Sanitary Sewer Bylaw		# OF CONTAINERS SUBMITTED FIELD FILTERED (CIRCLE) Metals / Hg / CrVI BTEX / PHC F1 PHC/F2 - F4 VOCs REG 153 METALS & INORGANICS REG 153 ICPMS METALS REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B) CaCl2 Extract, Solvex 75 um PAHS SAR AND EC		CUSTODY SEAL Y / N	
☐ Table 2 ☐ Ind/Comm ☒ Coarse		☐ MISA ☐ Storm Sewer Bylaw				Present Intact	
☐ Table 3 ☐ Agri/ Other		☐ PWQO Region					
☒ Table 7		☐ Other (Specify)					
FOR RSC (PLEASE CIRCLE) Y / N		☐ REG 558 (MIN. 3 DAY TAT REQUIRED)					
Include Criteria on Certificate of Analysis: Y / N				COOLING MEDIA PRESENT: Y / N		COMMENTS	
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS							
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX			
1	SP2	2022-04-05	1650	SOIL	4	X	X
2	SP3	2022-04-05	1700	SOIL	4	X	X
3	SP4	2022-04-05	1710	SOIL	4	X	X
4	SP5	2022-04-05	1720	SOIL	4	X	X
5	SP6	2022-04-05	1730	SOIL	4	X	X
6							
7							
8							
9							
10							
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)
		2022/04/06	10:00			2022/04/06	11:16

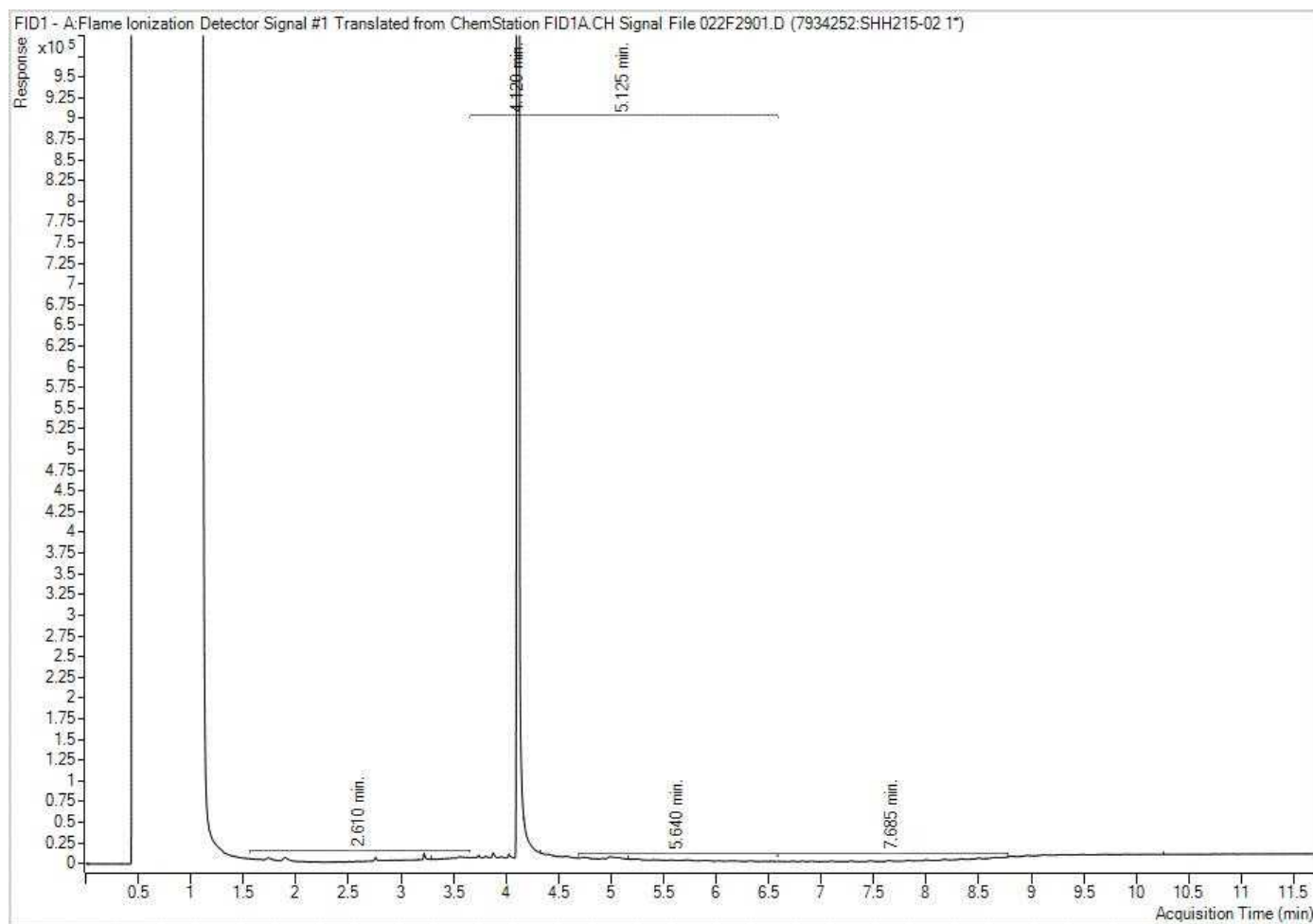
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



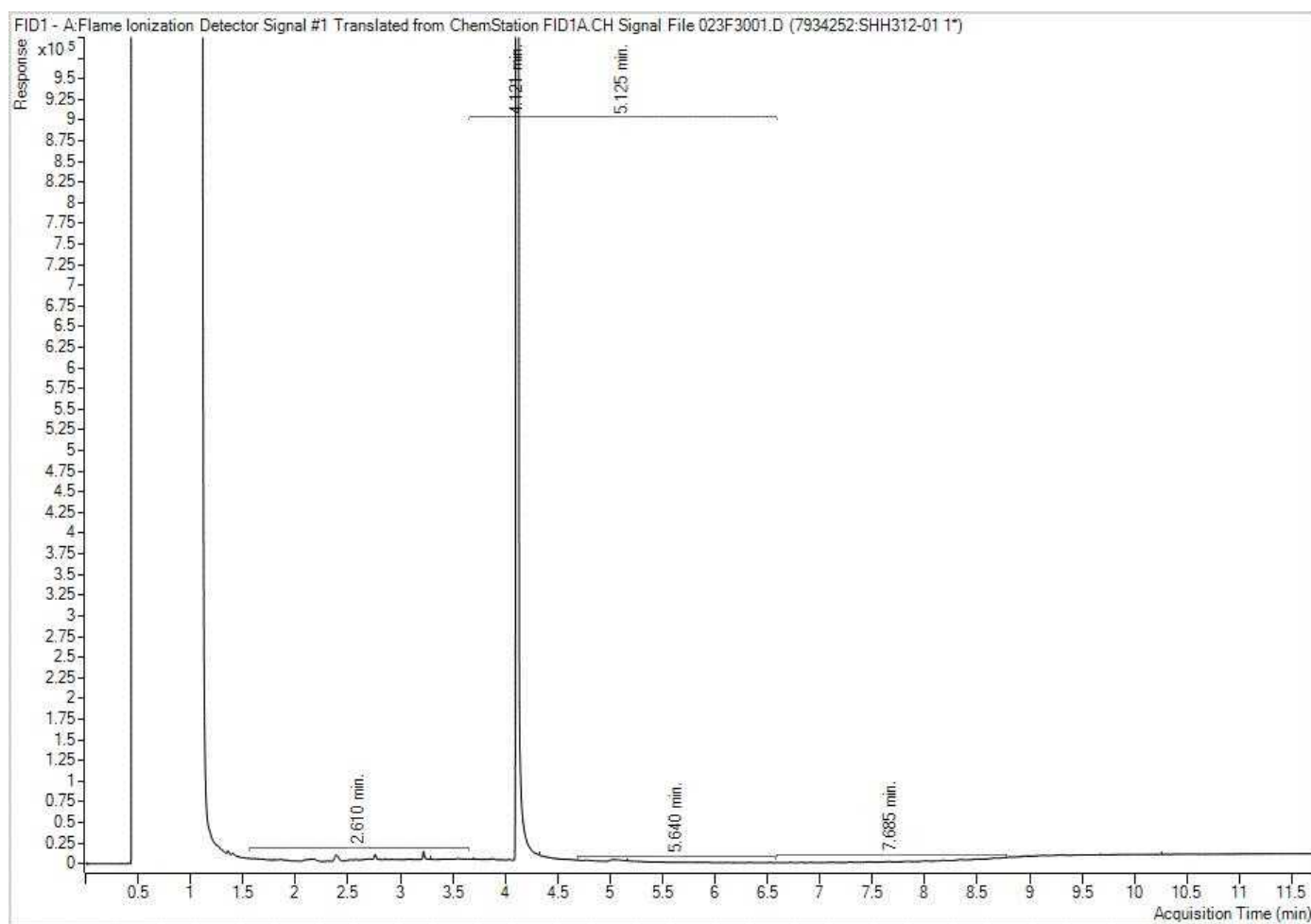
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



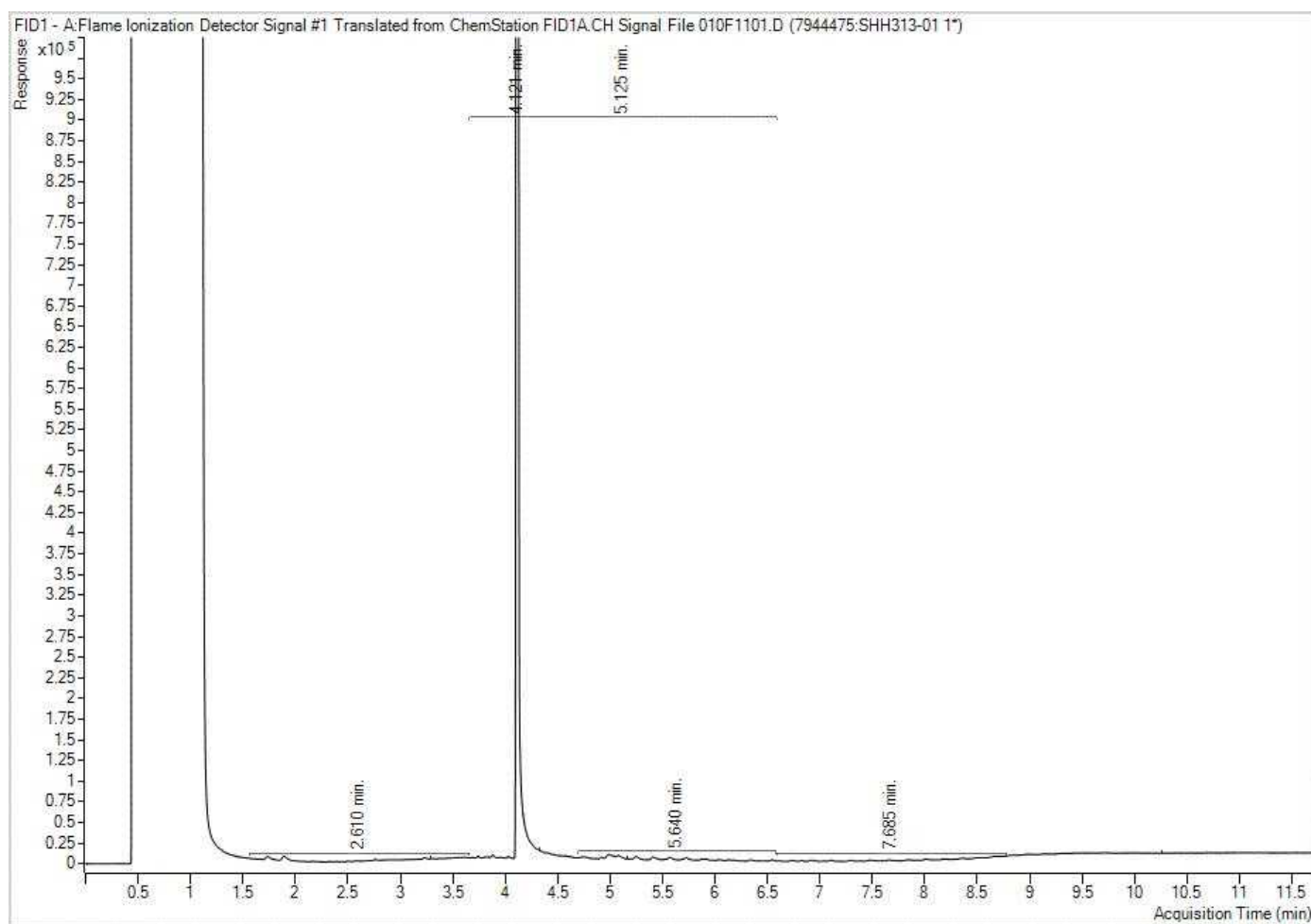
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

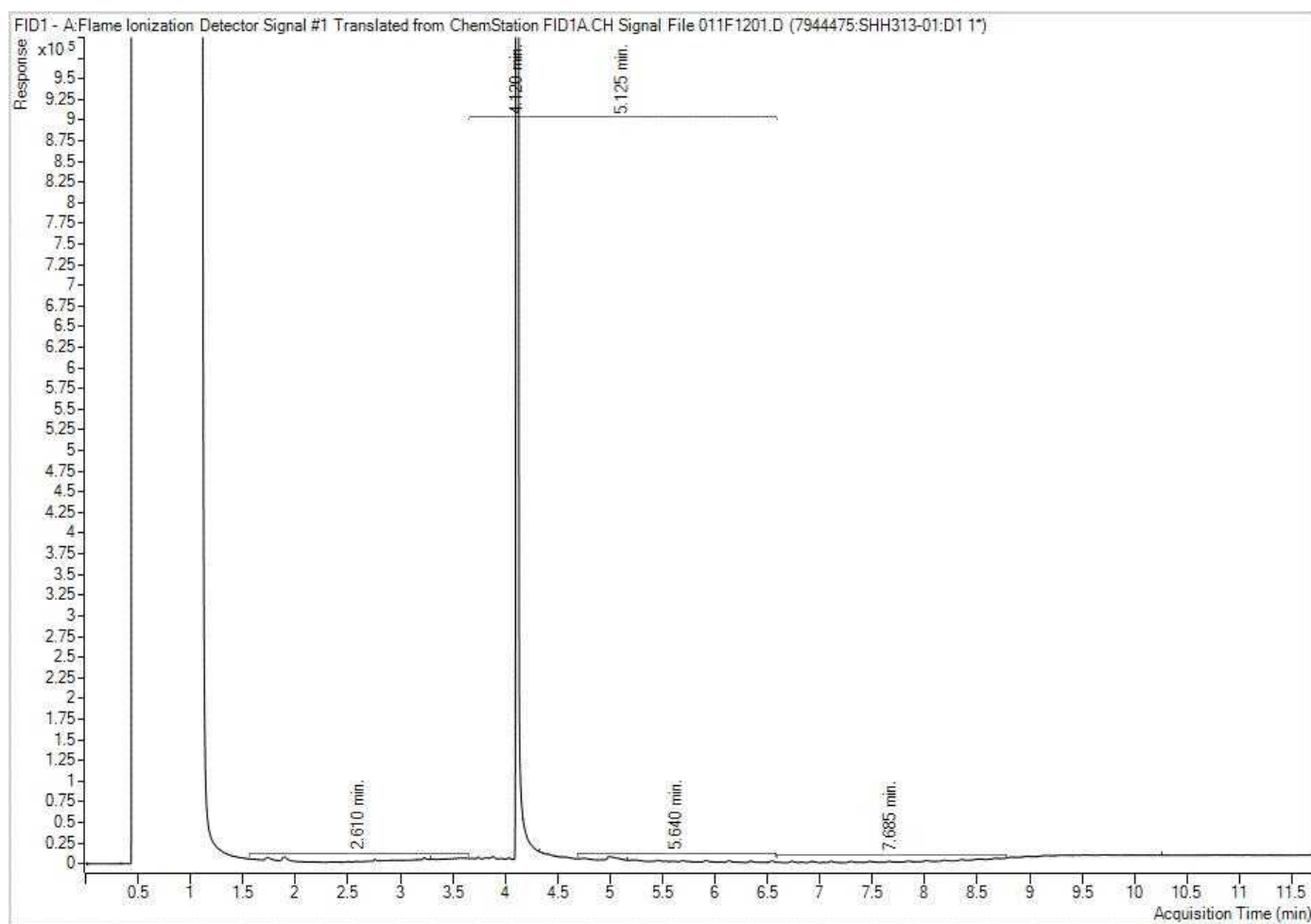


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Bureau Veritas Job #: C290888
Report Date: 2022/05/05
Bureau Veritas Sample: SHH313 Lab-Dup

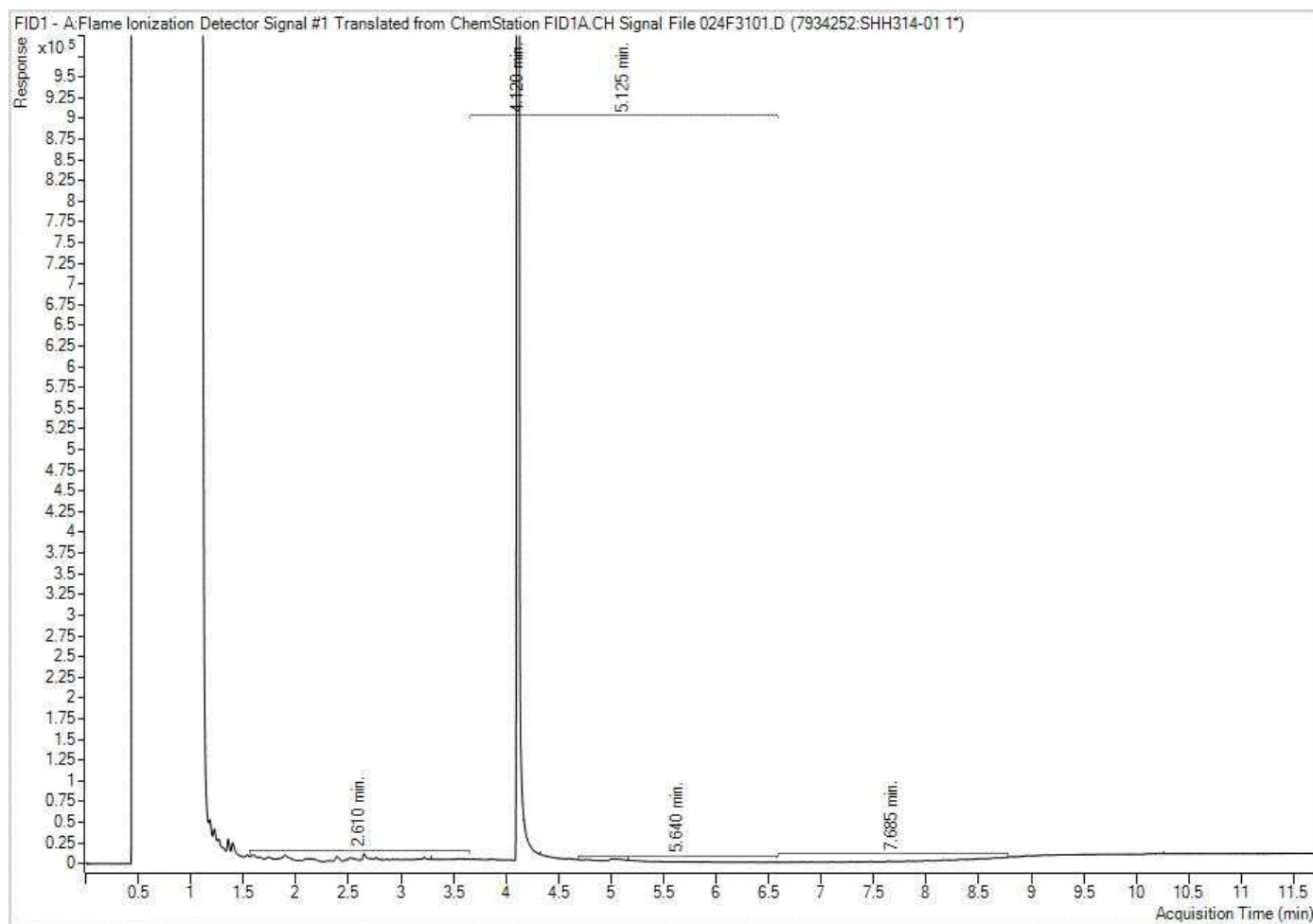
BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Project name: 1310 SOUTH SERVICE RD, STONEY CREEK
Client ID: BH110-3.0-3.7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



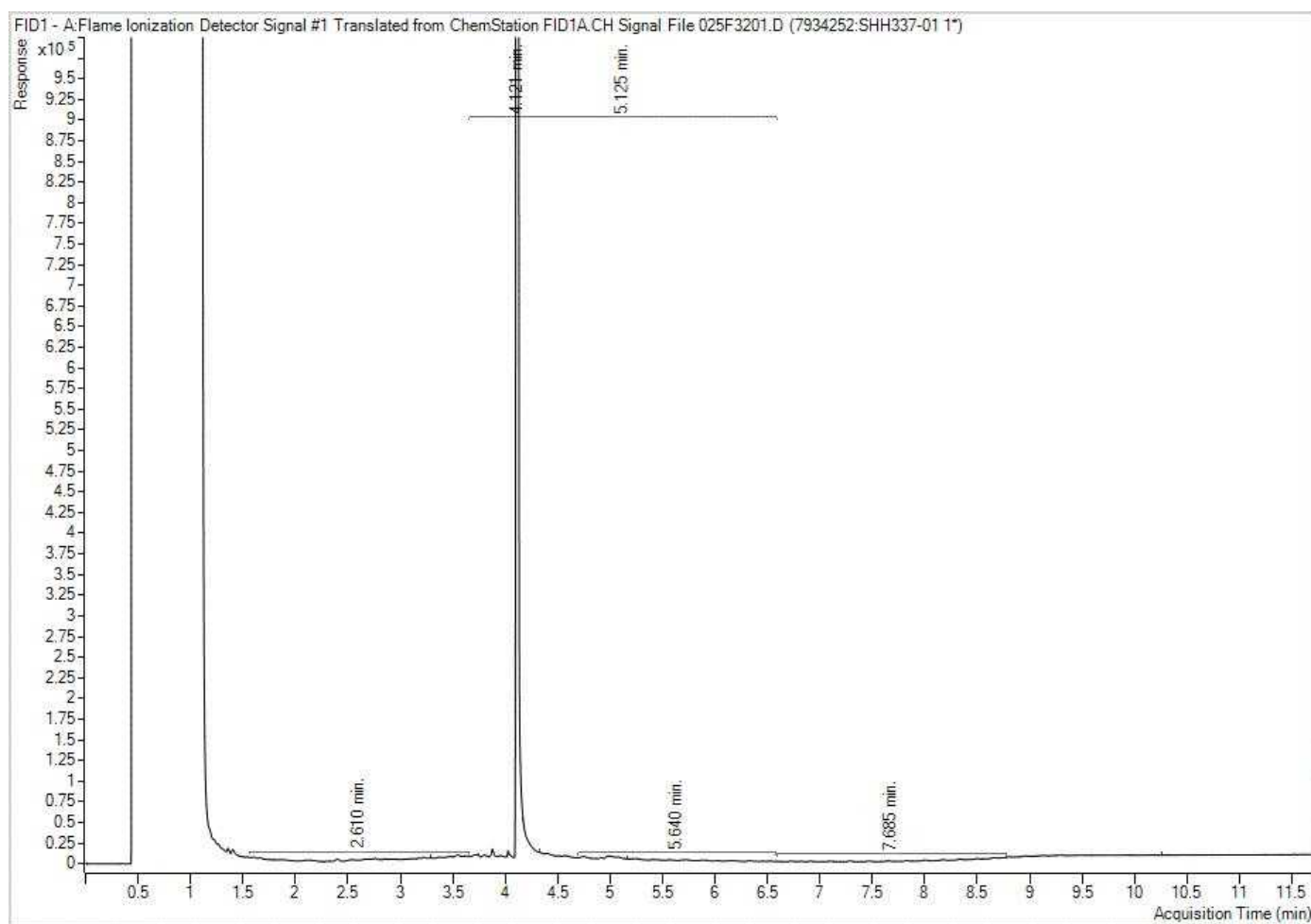
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



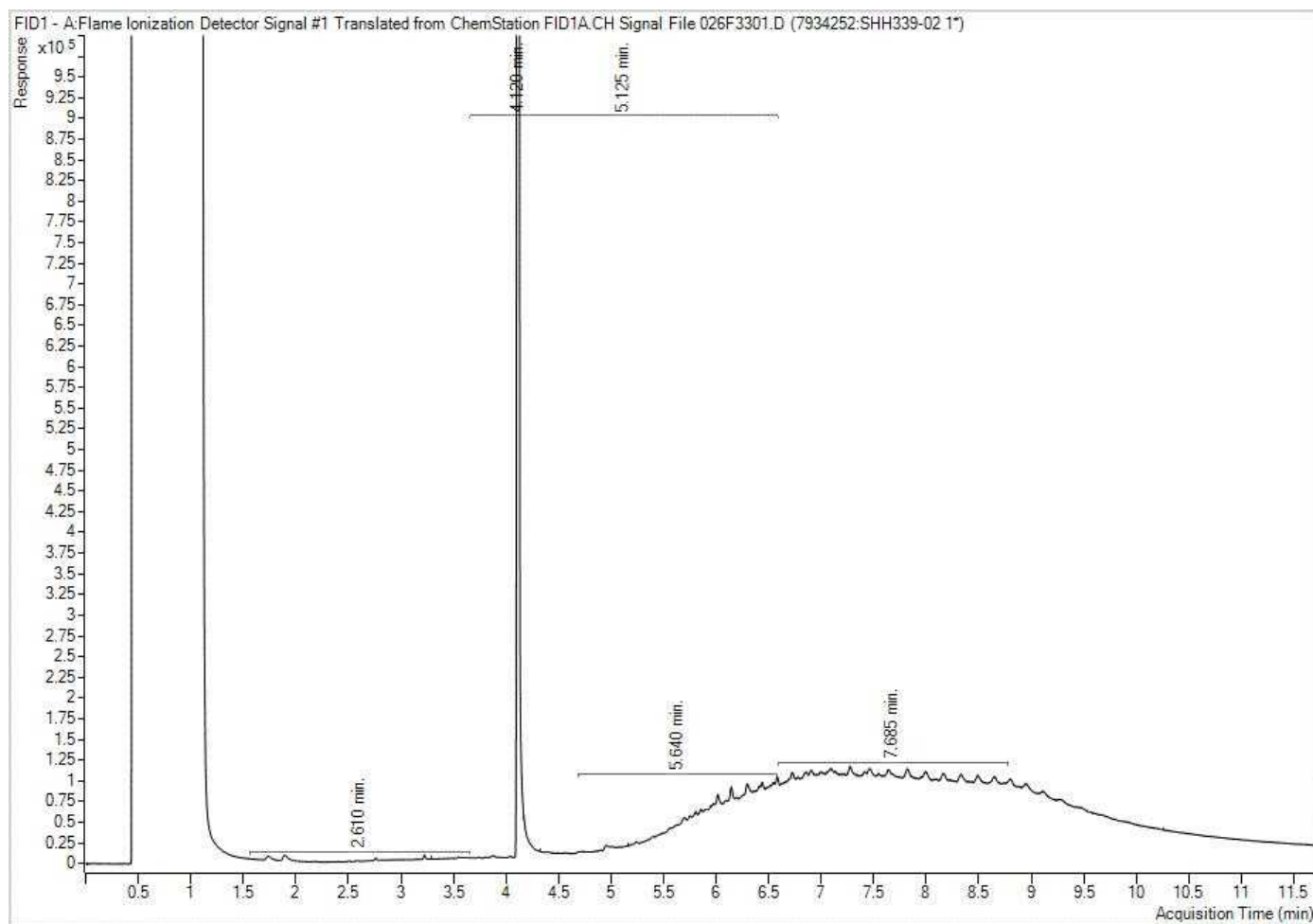
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



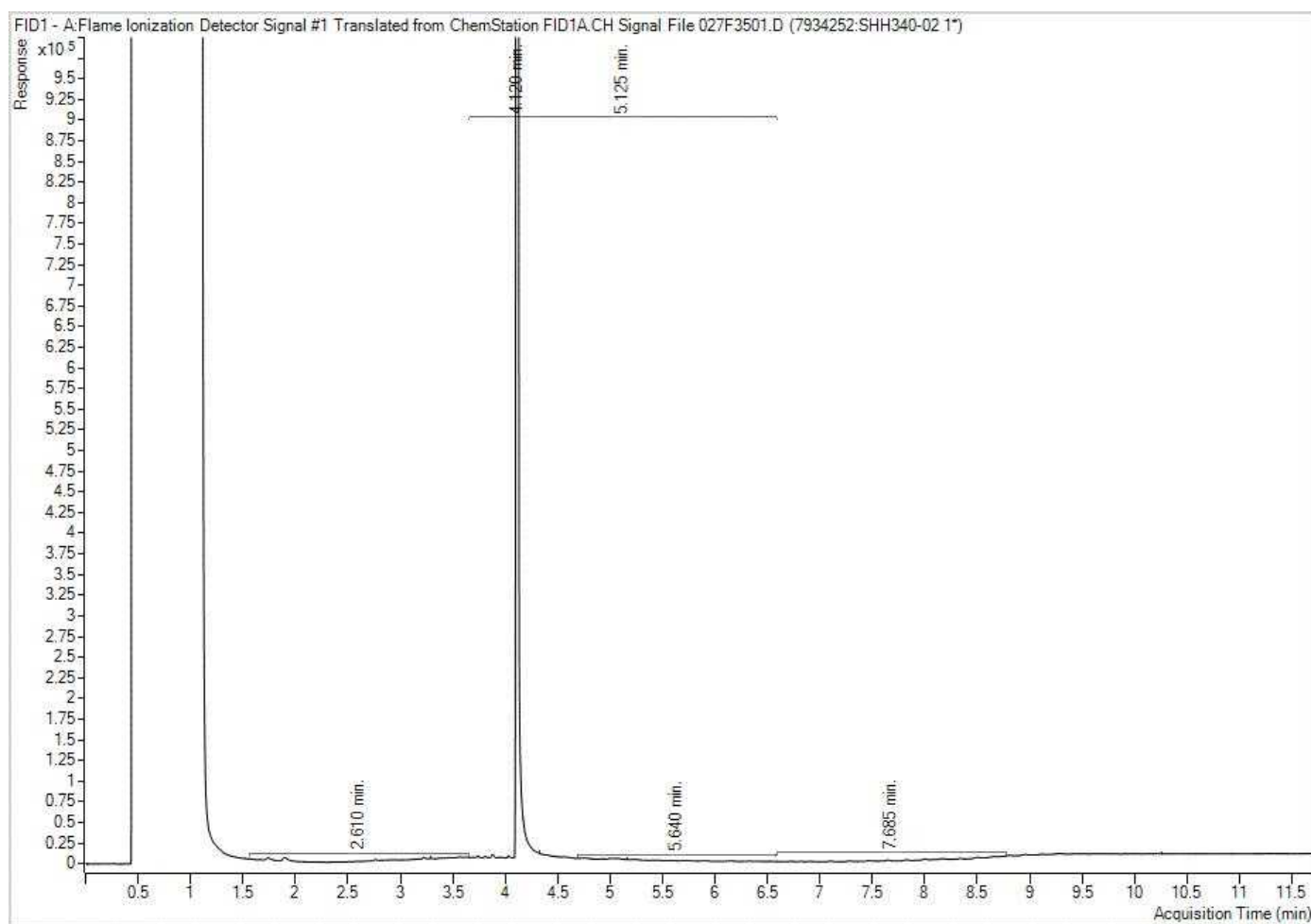
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



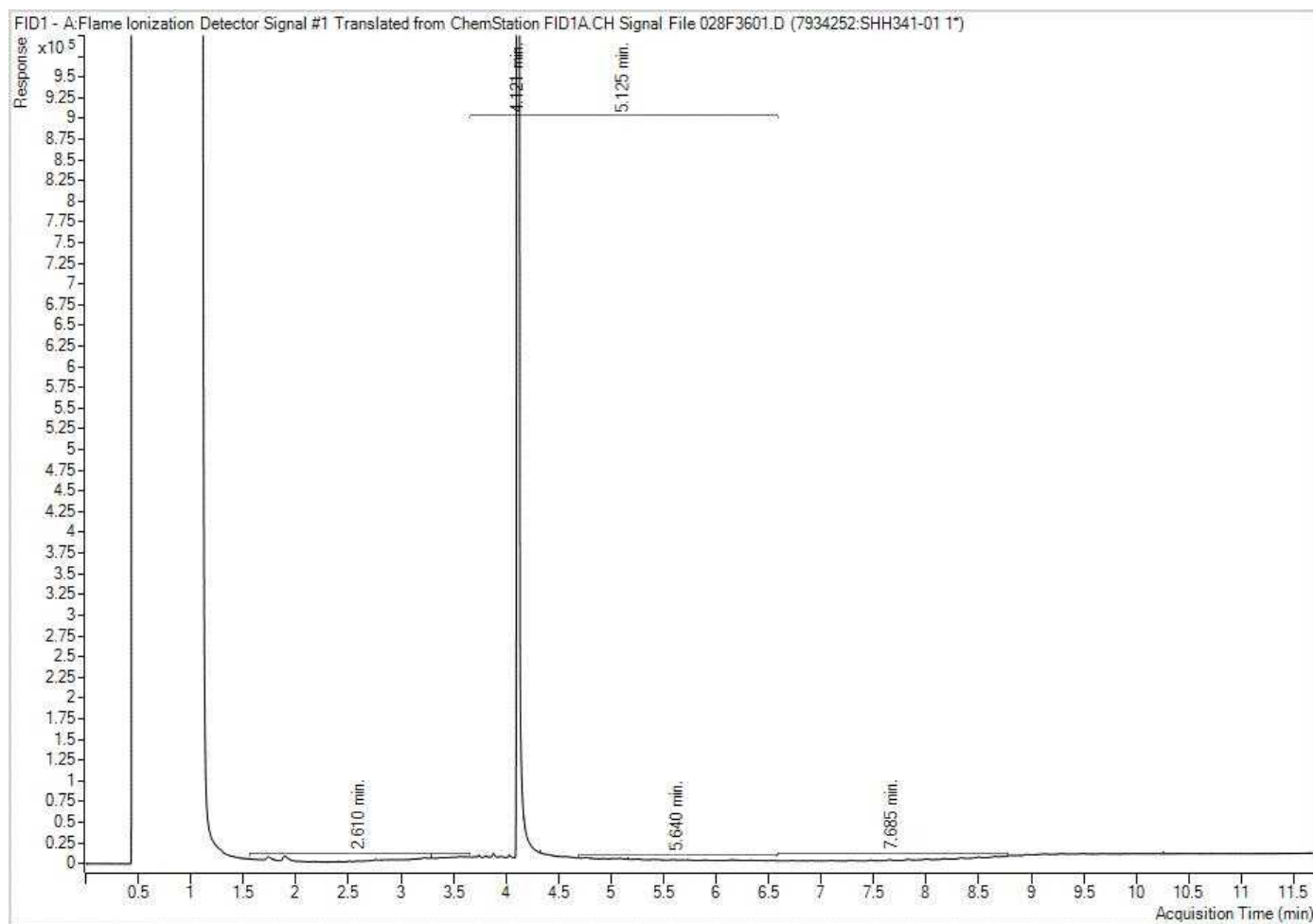
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



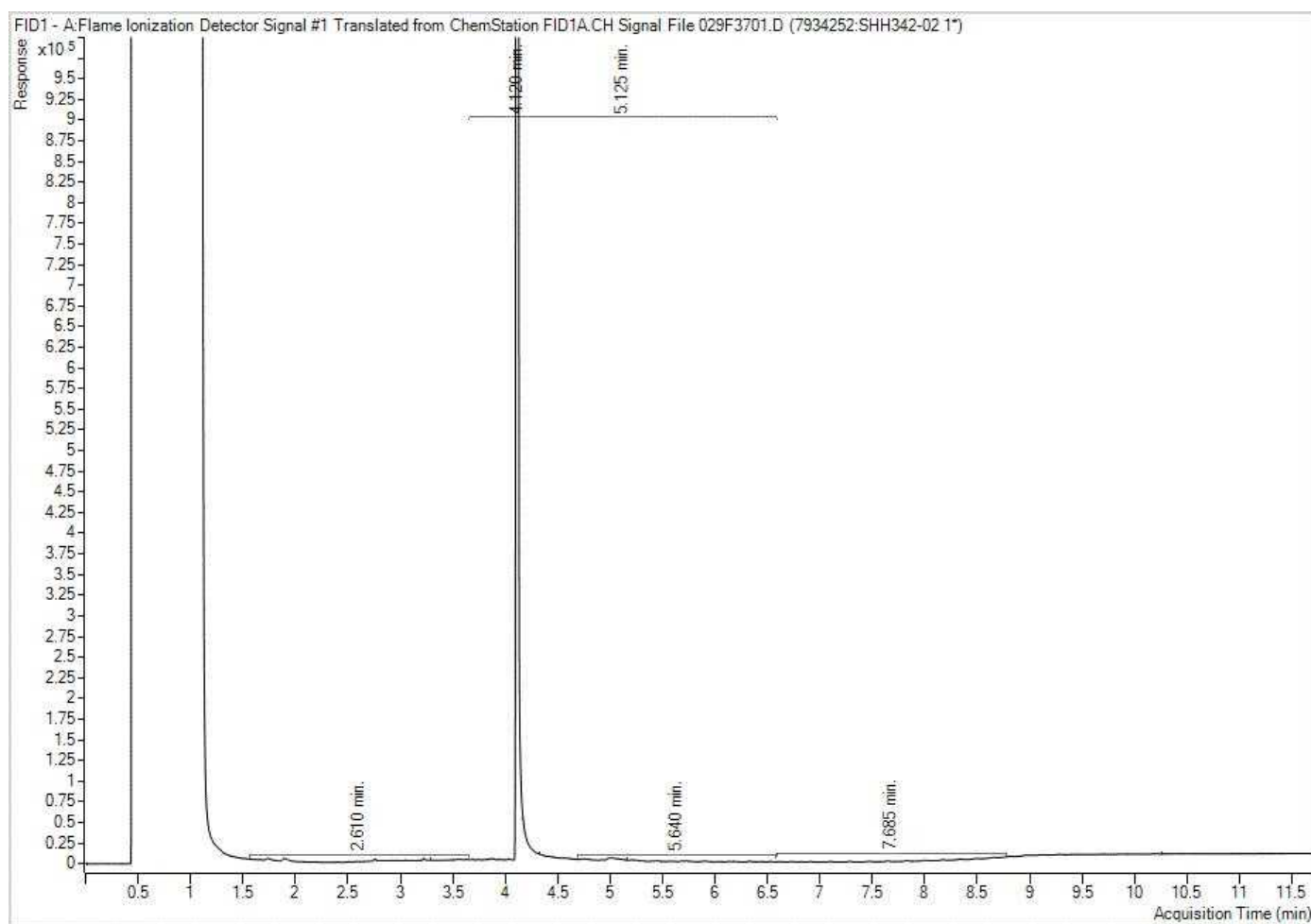
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



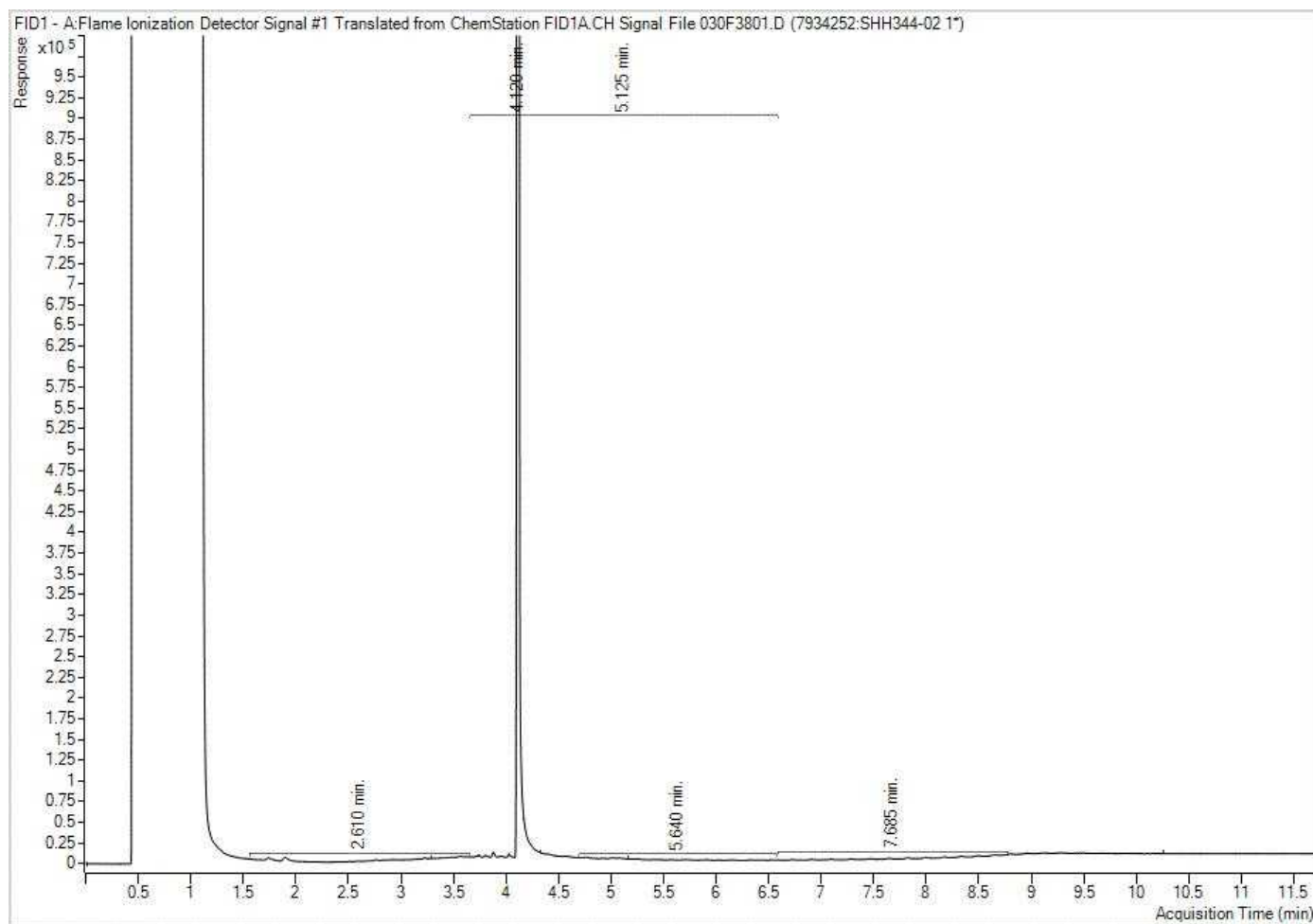
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



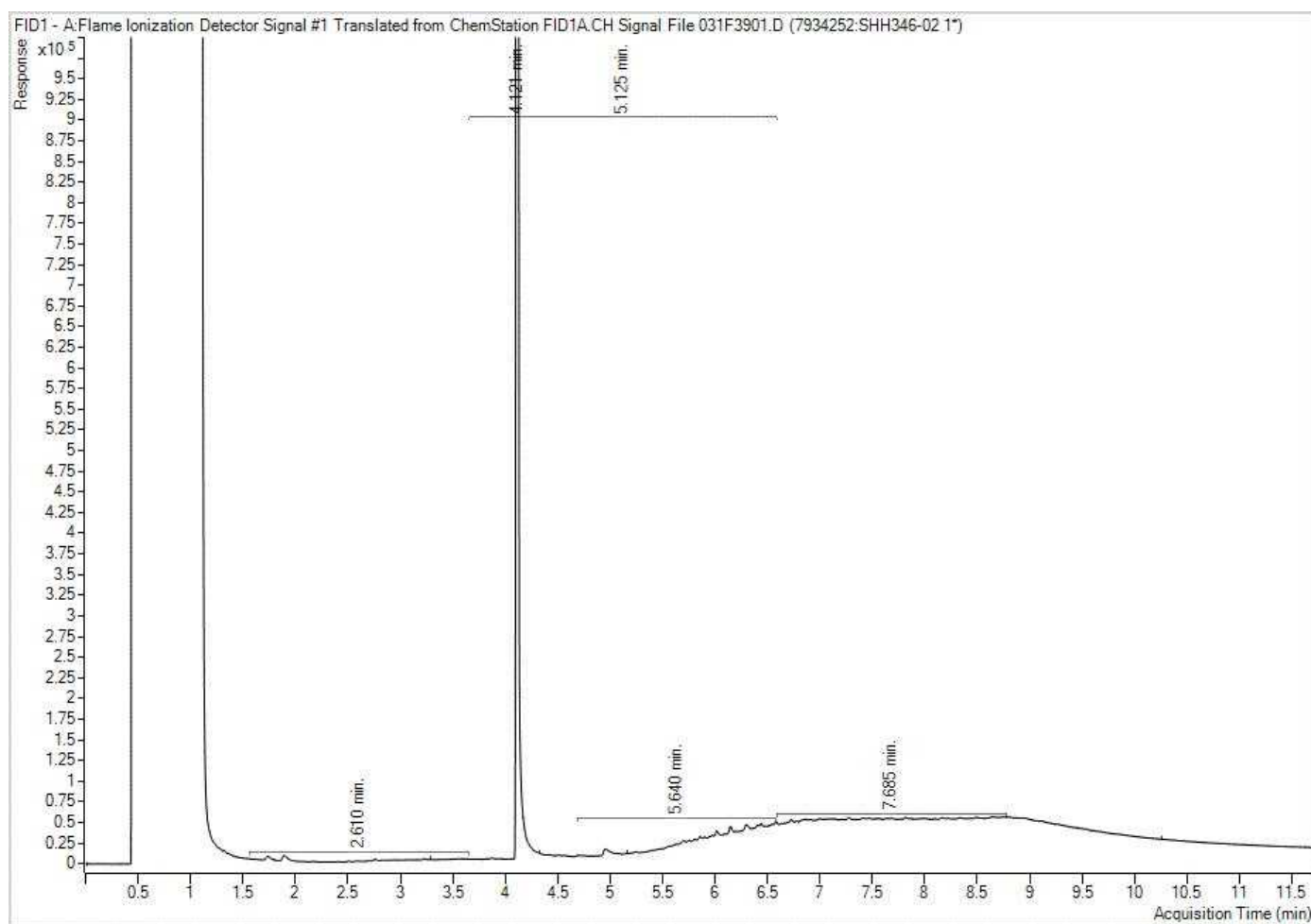
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



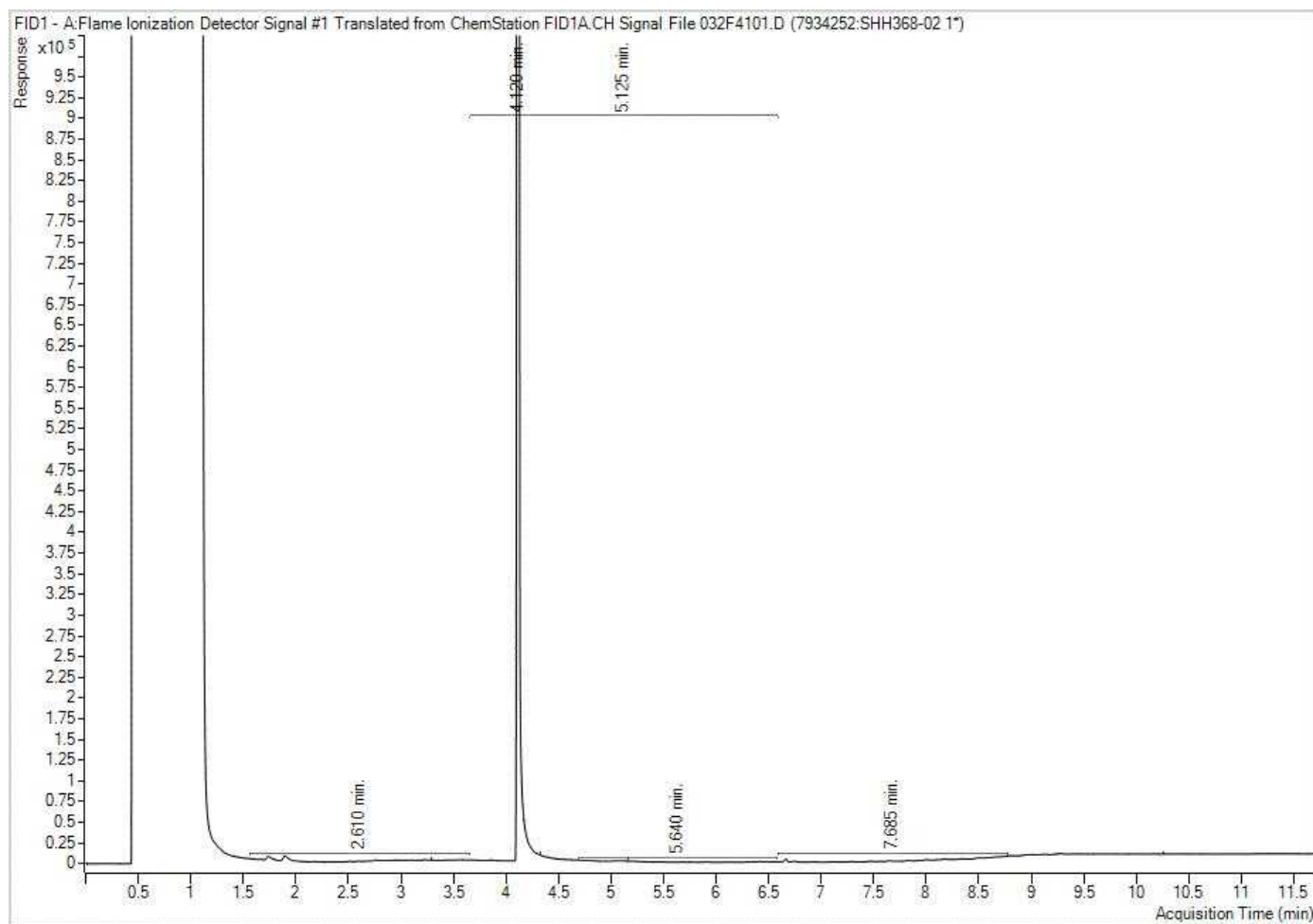
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



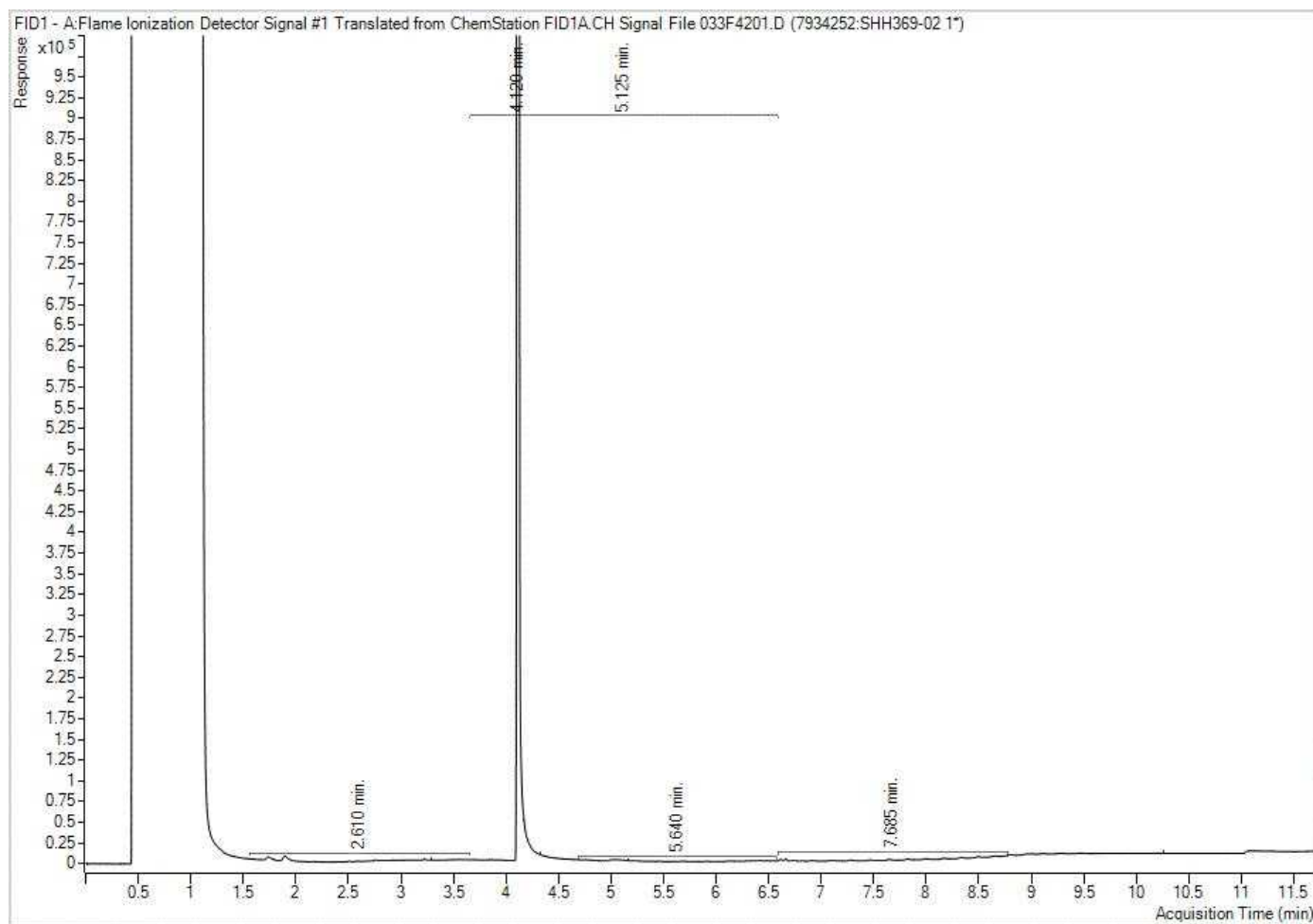
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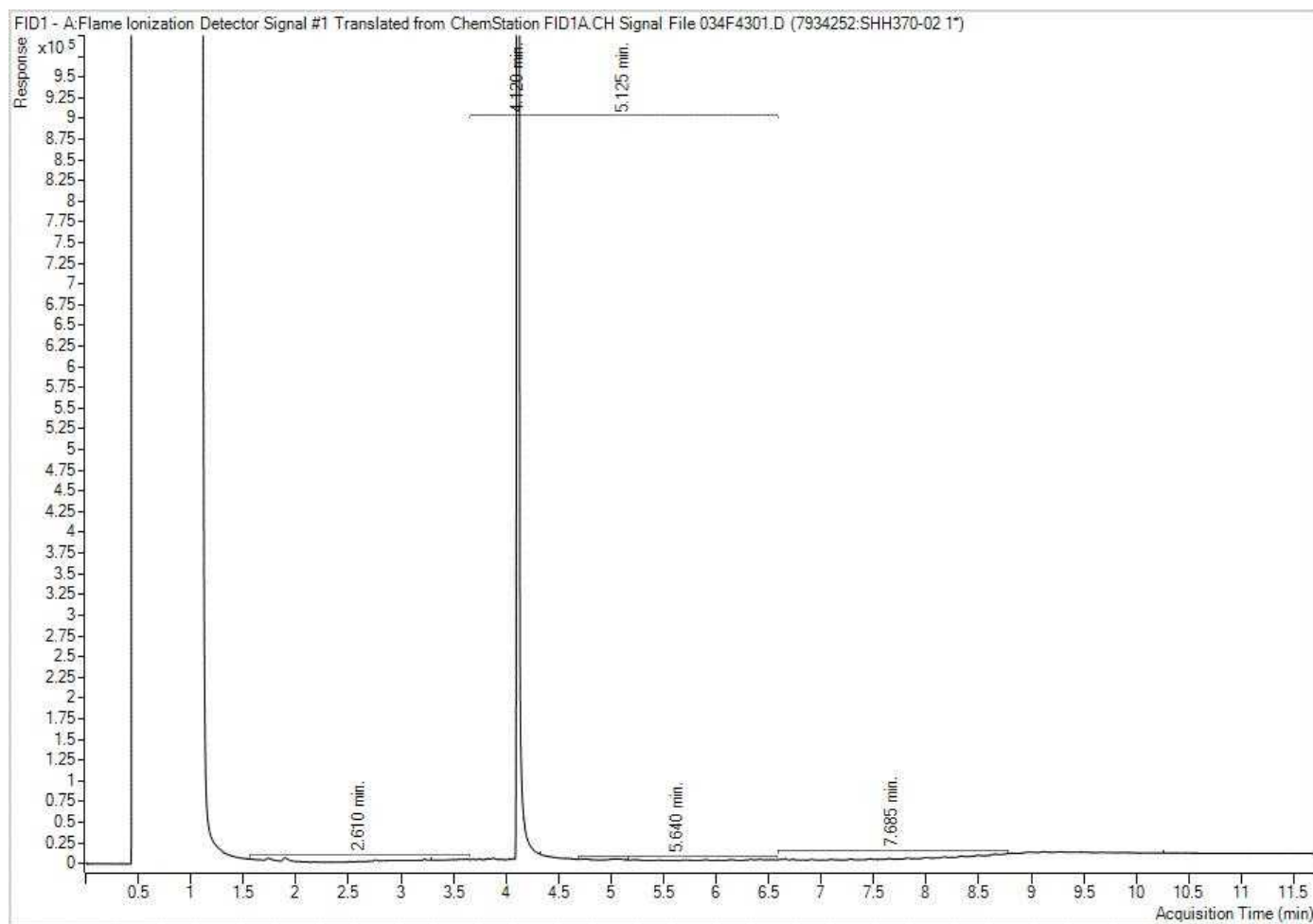
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



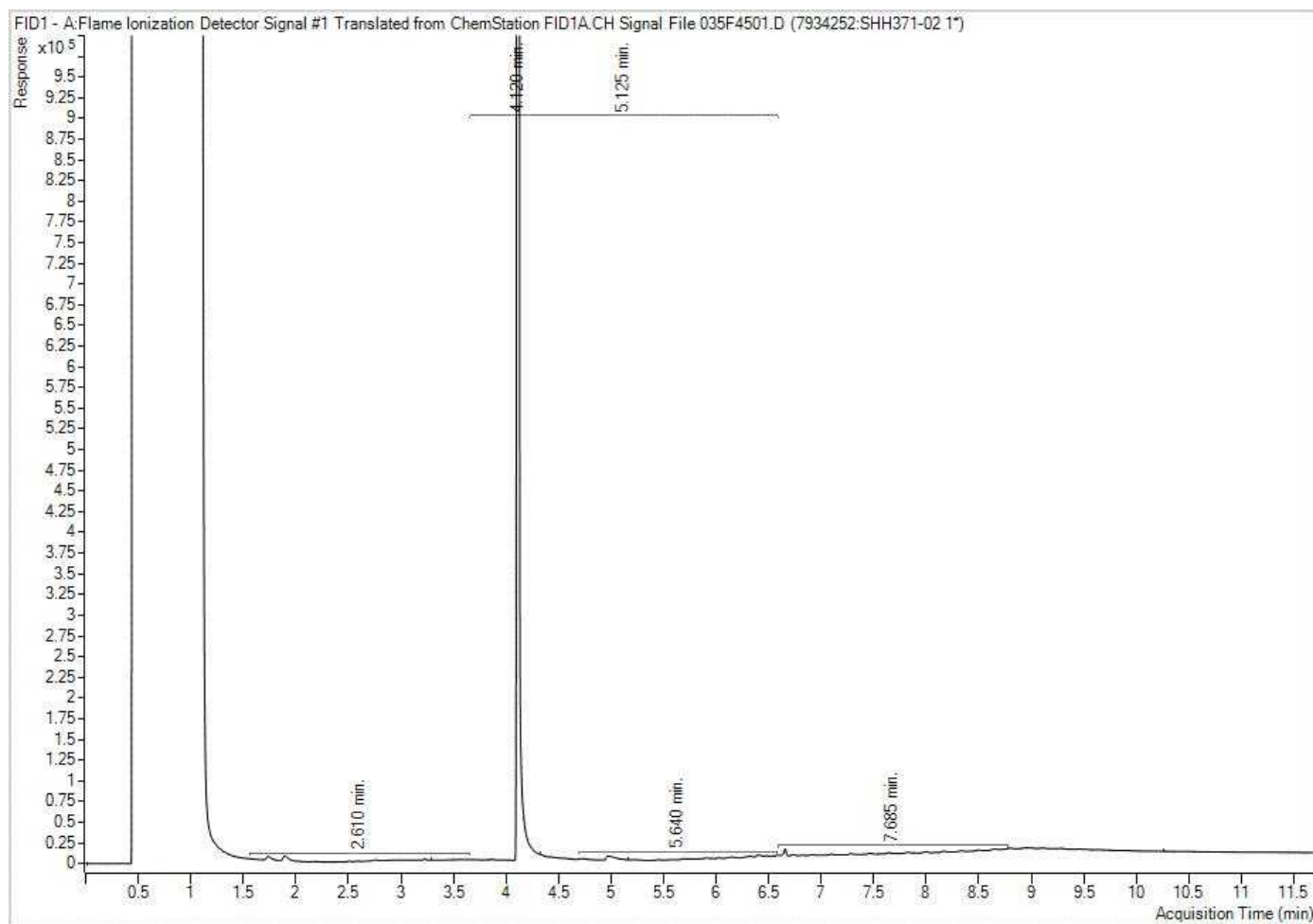
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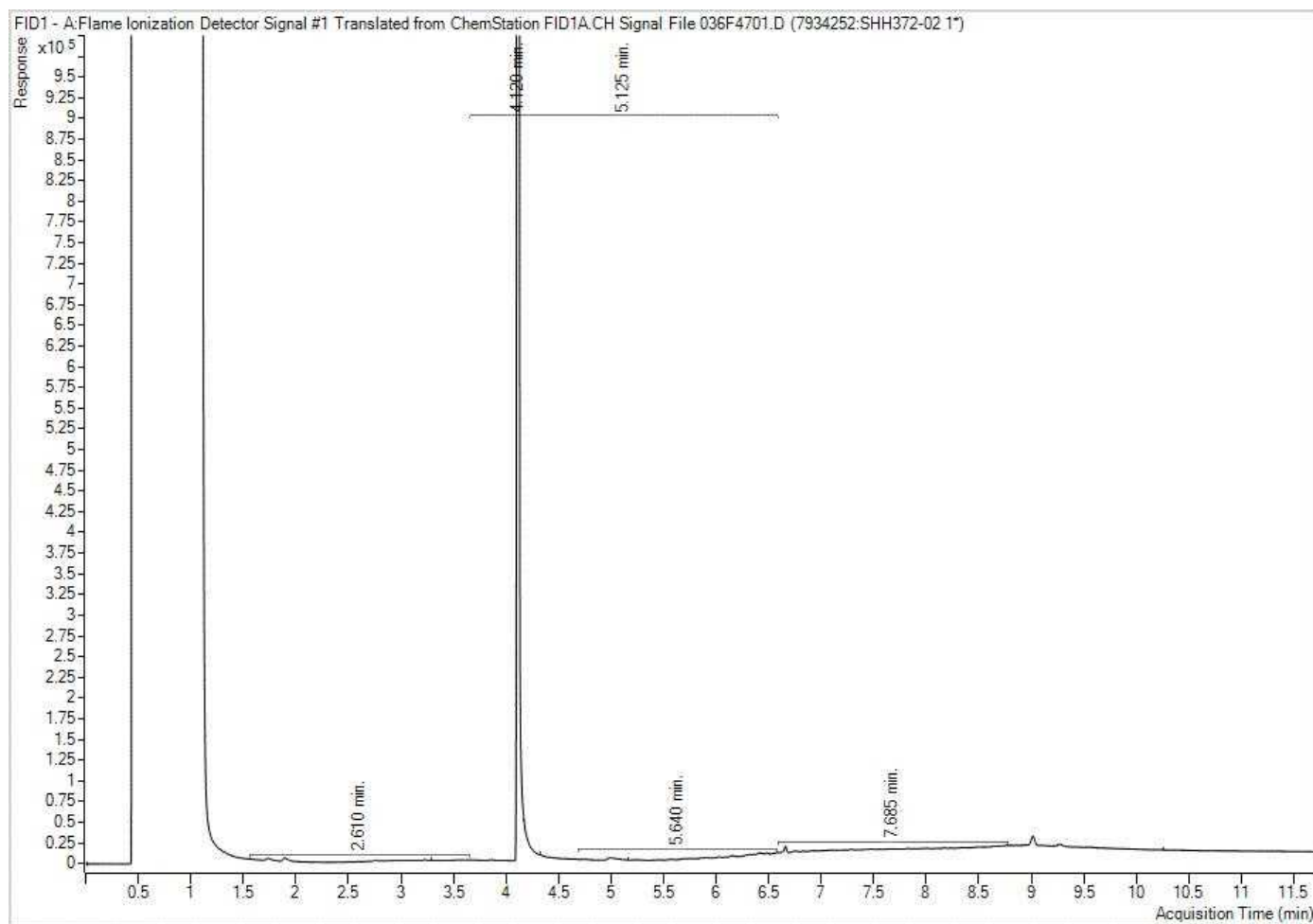
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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Your P.O. #: 0138-001.02
Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your C.O.C. #: 871758-02-01

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/04/18

Report #: R7089386

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C294362

Received: 2022/04/09, 08:27

Sample Matrix: Water
Samples Received: 3

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum	3	N/A	2022/04/12	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	3	N/A	2022/04/14		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	3	2022/04/11	2022/04/12	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	3	N/A	2022/04/14	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	2	2022/04/11	2022/04/11	CAM SOP-00318	EPA 8270D m
PAH Compounds in Water by GC/MS (SIM)	1	2022/04/11	2022/04/12	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	3	N/A	2022/04/13	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data



Your P.O. #: 0138-001.02
Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your C.O.C. #: 871758-02-01

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/04/18
Report #: R7089386
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C294362

Received: 2022/04/09, 08:27

reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

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

Deepthi Shaji, Project Manager

Email: Deepthi.Shaji@bureauveritas.com

Phone# (905)817-5700 Ext:7065843

=====

This report has been generated and distributed using a secure automated process.

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For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 2

Page 2 of 26

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



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VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID		SIA208	SIA209	SIA210		
Sampling Date		2022/04/08 13:41	2022/04/08 13:00	2022/04/08 14:36		
COC Number		871758-02-01	871758-02-01	871758-02-01		
	UNITS	MW112	MW113	MW114	RDL	QC Batch
Metals						
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	7934209
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	1.0	7934209
Dissolved Barium (Ba)	ug/L	21	54	150	2.0	7934209
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	0.40	7934209
Dissolved Boron (B)	ug/L	47	110	130	10	7934209
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	0.090	7934209
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	5.0	7934209
Dissolved Cobalt (Co)	ug/L	1.1	1.2	1.6	0.50	7934209
Dissolved Copper (Cu)	ug/L	2.2	1.8	1.3	0.90	7934209
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	0.50	7934209
Dissolved Molybdenum (Mo)	ug/L	3.6	5.4	7.4	0.50	7934209
Dissolved Nickel (Ni)	ug/L	2.3	3.4	3.6	1.0	7934209
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	2.0	7934209
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	0.090	7934209
Dissolved Sodium (Na)	ug/L	53000	130000	170000	100	7934209
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.050	7934209
Dissolved Uranium (U)	ug/L	0.80	6.5	9.5	0.10	7934209
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	0.50	7934209
Dissolved Zinc (Zn)	ug/L	10	<5.0	<5.0	5.0	7934209
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 PAHS (WATER)

Bureau Veritas ID		SIA208	SIA209			SIA209		
Sampling Date		2022/04/08 13:41	2022/04/08 13:00			2022/04/08 13:00		
COC Number		871758-02-01	871758-02-01			871758-02-01		
	UNITS	MW112	MW113	RDL	QC Batch	MW113 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	7931705			
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Acenaphthylene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Anthracene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	7933974	<0.0090	0.0090	7933974
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Chrysene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Fluoranthene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Fluorene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Naphthalene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Phenanthrene	ug/L	<0.030	<0.030	0.030	7933974	<0.030	0.030	7933974
Pyrene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Surrogate Recovery (%)								
D10-Anthracene	%	87	97		7933974	92		7933974
D14-Terphenyl (FS)	%	91	97		7933974	85		7933974
D8-Acenaphthylene	%	89	99		7933974	92		7933974
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								



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Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

O.REG 153 PAHS (WATER)

Bureau Veritas ID		SIA210		
Sampling Date		2022/04/08 14:36		
COC Number		871758-02-01		
	UNITS	MW114	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	7931705
Polyaromatic Hydrocarbons				
Acenaphthene	ug/L	<0.050	0.050	7933974
Acenaphthylene	ug/L	<0.050	0.050	7933974
Anthracene	ug/L	<0.050	0.050	7933974
Benzo(a)anthracene	ug/L	<0.050	0.050	7933974
Benzo(a)pyrene	ug/L	<0.0090	0.0090	7933974
Benzo(b,j)fluoranthene	ug/L	<0.050	0.050	7933974
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	7933974
Benzo(k)fluoranthene	ug/L	<0.050	0.050	7933974
Chrysene	ug/L	<0.050	0.050	7933974
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	7933974
Fluoranthene	ug/L	<0.050	0.050	7933974
Fluorene	ug/L	<0.050	0.050	7933974
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	7933974
1-Methylnaphthalene	ug/L	<0.050	0.050	7933974
2-Methylnaphthalene	ug/L	<0.050	0.050	7933974
Naphthalene	ug/L	<0.050	0.050	7933974
Phenanthrene	ug/L	0.11	0.030	7933974
Pyrene	ug/L	<0.050	0.050	7933974
Surrogate Recovery (%)				
D10-Anthracene	%	91		7933974
D14-Terphenyl (FS)	%	84		7933974
D8-Acenaphthylene	%	93		7933974
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIA208			SIA208			SIA209		
Sampling Date		2022/04/08 13:41			2022/04/08 13:41			2022/04/08 13:00		
COC Number		871758-02-01			871758-02-01			871758-02-01		
	UNITS	MW112	RDL	QC Batch	MW112 Lab-Dup	RDL	QC Batch	MW113	RDL	QC Batch

Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7931915				<0.50	0.50	7931915
Volatile Organics										
Acetone (2-Propanone)	ug/L	<10	10	7933318	<10	10	7933318	27	10	7933318
Benzene	ug/L	0.32	0.17	7933318	0.33	0.17	7933318	1.2	0.17	7933318
Bromodichloromethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Bromoform	ug/L	<1.0	1.0	7933318	<1.0	1.0	7933318	<1.0	1.0	7933318
Bromomethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Carbon Tetrachloride	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Chlorobenzene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Chloroform	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Dibromochloromethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7933318	<1.0	1.0	7933318	<1.0	1.0	7933318
1,1-Dichloroethane	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
1,2-Dichloroethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,1-Dichloroethylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,2-Dichloropropane	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7933318	<0.30	0.30	7933318	<0.30	0.30	7933318
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7933318	<0.40	0.40	7933318	<0.40	0.40	7933318
Ethylbenzene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Ethylene Dibromide	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Hexane	ug/L	<1.0	1.0	7933318	<1.0	1.0	7933318	<1.0	1.0	7933318
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7933318	<2.0	2.0	7933318	<2.0	2.0	7933318
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7933318	<10	10	7933318	<10	10	7933318
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7933318	<5.0	5.0	7933318	<5.0	5.0	7933318
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIA208			SIA208			SIA209		
Sampling Date		2022/04/08 13:41			2022/04/08 13:41			2022/04/08 13:00		
COC Number		871758-02-01			871758-02-01			871758-02-01		
	UNITS	MW112	RDL	QC Batch	MW112 Lab-Dup	RDL	QC Batch	MW113	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Styrene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Tetrachloroethylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Toluene	ug/L	0.39	0.20	7933318	0.38	0.20	7933318	0.63	0.20	7933318
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Trichloroethylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Vinyl Chloride	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
p+m-Xylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	0.56	0.20	7933318
o-Xylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	0.45	0.20	7933318
Total Xylenes	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	1.0	0.20	7933318
F1 (C6-C10)	ug/L	<25	25	7933318	<25	25	7933318	<25	25	7933318
F1 (C6-C10) - BTEX	ug/L	<25	25	7933318	<25	25	7933318	<25	25	7933318
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7933993				<100	100	7933993
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7933993				<200	200	7933993
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7933993				<200	200	7933993
Reached Baseline at C50	ug/L	Yes		7933993				Yes		7933993
Surrogate Recovery (%)										
o-Terphenyl	%	95		7933993				95		7933993
4-Bromofluorobenzene	%	91		7933318	91		7933318	90		7933318
D4-1,2-Dichloroethane	%	104		7933318	104		7933318	102		7933318
D8-Toluene	%	93		7933318	92		7933318	92		7933318
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIA209			SIA210		
Sampling Date		2022/04/08 13:00			2022/04/08 14:36		
COC Number		871758-02-01			871758-02-01		
	UNITS	MW113 Lab-Dup	RDL	QC Batch	MW114	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L				<0.50	0.50	79331915
Volatile Organics							
Acetone (2-Propanone)	ug/L				20	10	7933318
Benzene	ug/L				<0.17	0.17	7933318
Bromodichloromethane	ug/L				<0.50	0.50	7933318
Bromoform	ug/L				<1.0	1.0	7933318
Bromomethane	ug/L				<0.50	0.50	7933318
Carbon Tetrachloride	ug/L				<0.20	0.20	7933318
Chlorobenzene	ug/L				<0.20	0.20	7933318
Chloroform	ug/L				<0.20	0.20	7933318
Dibromochloromethane	ug/L				<0.50	0.50	7933318
1,2-Dichlorobenzene	ug/L				<0.50	0.50	7933318
1,3-Dichlorobenzene	ug/L				<0.50	0.50	7933318
1,4-Dichlorobenzene	ug/L				<0.50	0.50	7933318
Dichlorodifluoromethane (FREON 12)	ug/L				<1.0	1.0	7933318
1,1-Dichloroethane	ug/L				<0.20	0.20	7933318
1,2-Dichloroethane	ug/L				<0.50	0.50	7933318
1,1-Dichloroethylene	ug/L				<0.20	0.20	7933318
cis-1,2-Dichloroethylene	ug/L				<0.50	0.50	7933318
trans-1,2-Dichloroethylene	ug/L				<0.50	0.50	7933318
1,2-Dichloropropane	ug/L				<0.20	0.20	7933318
cis-1,3-Dichloropropene	ug/L				<0.30	0.30	7933318
trans-1,3-Dichloropropene	ug/L				<0.40	0.40	7933318
Ethylbenzene	ug/L				<0.20	0.20	7933318
Ethylene Dibromide	ug/L				<0.20	0.20	7933318
Hexane	ug/L				<1.0	1.0	7933318
Methylene Chloride(Dichloromethane)	ug/L				<2.0	2.0	7933318
Methyl Ethyl Ketone (2-Butanone)	ug/L				<10	10	7933318
Methyl Isobutyl Ketone	ug/L				<5.0	5.0	7933318
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIA209			SIA210		
Sampling Date		2022/04/08 13:00			2022/04/08 14:36		
COC Number		871758-02-01			871758-02-01		
	UNITS	MW113 Lab-Dup	RDL	QC Batch	MW114	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L				<0.50	0.50	7933318
Styrene	ug/L				<0.50	0.50	7933318
1,1,1,2-Tetrachloroethane	ug/L				<0.50	0.50	7933318
1,1,2,2-Tetrachloroethane	ug/L				<0.50	0.50	7933318
Tetrachloroethylene	ug/L				<0.20	0.20	7933318
Toluene	ug/L				<0.20	0.20	7933318
1,1,1-Trichloroethane	ug/L				<0.20	0.20	7933318
1,1,2-Trichloroethane	ug/L				<0.50	0.50	7933318
Trichloroethylene	ug/L				<0.20	0.20	7933318
Trichlorofluoromethane (FREON 11)	ug/L				<0.50	0.50	7933318
Vinyl Chloride	ug/L				<0.20	0.20	7933318
p+m-Xylene	ug/L				<0.20	0.20	7933318
o-Xylene	ug/L				<0.20	0.20	7933318
Total Xylenes	ug/L				<0.20	0.20	7933318
F1 (C6-C10)	ug/L				<25	25	7933318
F1 (C6-C10) - BTEX	ug/L				<25	25	7933318
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7933993	<100	100	7933993
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7933993	240	200	7933993
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7933993	<200	200	7933993
Reached Baseline at C50	ug/L	Yes		7933993	Yes		7933993
Surrogate Recovery (%)							
o-Terphenyl	%	86		7933993	93		7933993
4-Bromofluorobenzene	%				91		7933318
D4-1,2-Dichloroethane	%				104		7933318
D8-Toluene	%				92		7933318
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



**BUREAU
VERITAS**

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

TEST SUMMARY

Bureau Veritas ID: SIA208
Sample ID: MW112
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7931705	N/A	2022/04/12	Automated Statchk
1,3-Dichloropropene Sum	CALC	7931915	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7933993	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7934209	N/A	2022/04/14	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7933974	2022/04/11	2022/04/11	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7933318	N/A	2022/04/13	Anna Gabrielyan

Bureau Veritas ID: SIA208 Dup
Sample ID: MW112
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7933318	N/A	2022/04/13	Anna Gabrielyan

Bureau Veritas ID: SIA209
Sample ID: MW113
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7931705	N/A	2022/04/12	Automated Statchk
1,3-Dichloropropene Sum	CALC	7931915	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7933993	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7934209	N/A	2022/04/14	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7933974	2022/04/11	2022/04/11	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7933318	N/A	2022/04/13	Anna Gabrielyan

Bureau Veritas ID: SIA209 Dup
Sample ID: MW113
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7933993	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7933974	2022/04/11	2022/04/11	Mitesh Raj

Bureau Veritas ID: SIA210
Sample ID: MW114
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7931705	N/A	2022/04/12	Automated Statchk
1,3-Dichloropropene Sum	CALC	7931915	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7933993	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7934209	N/A	2022/04/14	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7933974	2022/04/11	2022/04/12	Mitesh Raj



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VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

TEST SUMMARY

Bureau Veritas ID: SIA210
Sample ID: MW114
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7933318	N/A	2022/04/13	Anna Gabrielyan



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.7°C
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Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7933318	AYA	Matrix Spike [SIA208-03]	4-Bromofluorobenzene	2022/04/13		102	%	70 - 130
				D4-1,2-Dichloroethane	2022/04/13		98	%	70 - 130
				D8-Toluene	2022/04/13		103	%	70 - 130
				Acetone (2-Propanone)	2022/04/13		109	%	60 - 140
				Benzene	2022/04/13		89	%	70 - 130
				Bromodichloromethane	2022/04/13		98	%	70 - 130
				Bromoform	2022/04/13		95	%	70 - 130
				Bromomethane	2022/04/13		99	%	60 - 140
				Carbon Tetrachloride	2022/04/13		92	%	70 - 130
				Chlorobenzene	2022/04/13		96	%	70 - 130
				Chloroform	2022/04/13		94	%	70 - 130
				Dibromochloromethane	2022/04/13		93	%	70 - 130
				1,2-Dichlorobenzene	2022/04/13		96	%	70 - 130
				1,3-Dichlorobenzene	2022/04/13		97	%	70 - 130
				1,4-Dichlorobenzene	2022/04/13		114	%	70 - 130
				Dichlorodifluoromethane (FREON 12)	2022/04/13		89	%	60 - 140
				1,1-Dichloroethane	2022/04/13		91	%	70 - 130
				1,2-Dichloroethane	2022/04/13		91	%	70 - 130
				1,1-Dichloroethylene	2022/04/13		92	%	70 - 130
				cis-1,2-Dichloroethylene	2022/04/13		95	%	70 - 130
				trans-1,2-Dichloroethylene	2022/04/13		94	%	70 - 130
				1,2-Dichloropropane	2022/04/13		94	%	70 - 130
				cis-1,3-Dichloropropene	2022/04/13		94	%	70 - 130
				trans-1,3-Dichloropropene	2022/04/13		102	%	70 - 130
				Ethylbenzene	2022/04/13		90	%	70 - 130
				Ethylene Dibromide	2022/04/13		93	%	70 - 130
				Hexane	2022/04/13		95	%	70 - 130
				Methylene Chloride(Dichloromethane)	2022/04/13		94	%	70 - 130
				Methyl Ethyl Ketone (2-Butanone)	2022/04/13		116	%	60 - 140
				Methyl Isobutyl Ketone	2022/04/13		106	%	70 - 130
				Methyl t-butyl ether (MTBE)	2022/04/13		89	%	70 - 130
				Styrene	2022/04/13		105	%	70 - 130
				1,1,1,2-Tetrachloroethane	2022/04/13		96	%	70 - 130
				1,1,2,2-Tetrachloroethane	2022/04/13		94	%	70 - 130
				Tetrachloroethylene	2022/04/13		88	%	70 - 130
				Toluene	2022/04/13		94	%	70 - 130
				1,1,1-Trichloroethane	2022/04/13		95	%	70 - 130
				1,1,2-Trichloroethane	2022/04/13		99	%	70 - 130
				Trichloroethylene	2022/04/13		99	%	70 - 130
				Trichlorofluoromethane (FREON 11)	2022/04/13		97	%	70 - 130
				Vinyl Chloride	2022/04/13		97	%	70 - 130
				p+m-Xylene	2022/04/13		96	%	70 - 130
				o-Xylene	2022/04/13		93	%	70 - 130
				F1 (C6-C10)	2022/04/13		95	%	60 - 140
	7933318	AYA	Spiked Blank	4-Bromofluorobenzene	2022/04/13		102	%	70 - 130
				D4-1,2-Dichloroethane	2022/04/13		100	%	70 - 130
				D8-Toluene	2022/04/13		104	%	70 - 130
				Acetone (2-Propanone)	2022/04/13		111	%	60 - 140
				Benzene	2022/04/13		90	%	70 - 130
				Bromodichloromethane	2022/04/13		100	%	70 - 130



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7933318	AYA	Method Blank	Bromoform	2022/04/13		96	%	70 - 130
			Bromomethane	2022/04/13		105	%	60 - 140
			Carbon Tetrachloride	2022/04/13		93	%	70 - 130
			Chlorobenzene	2022/04/13		97	%	70 - 130
			Chloroform	2022/04/13		96	%	70 - 130
			Dibromochloromethane	2022/04/13		95	%	70 - 130
			1,2-Dichlorobenzene	2022/04/13		97	%	70 - 130
			1,3-Dichlorobenzene	2022/04/13		98	%	70 - 130
			1,4-Dichlorobenzene	2022/04/13		115	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/04/13		93	%	60 - 140
			1,1-Dichloroethane	2022/04/13		92	%	70 - 130
			1,2-Dichloroethane	2022/04/13		93	%	70 - 130
			1,1-Dichloroethylene	2022/04/13		93	%	70 - 130
			cis-1,2-Dichloroethylene	2022/04/13		97	%	70 - 130
			trans-1,2-Dichloroethylene	2022/04/13		95	%	70 - 130
			1,2-Dichloropropane	2022/04/13		96	%	70 - 130
			cis-1,3-Dichloropropene	2022/04/13		102	%	70 - 130
			trans-1,3-Dichloropropene	2022/04/13		112	%	70 - 130
			Ethylbenzene	2022/04/13		91	%	70 - 130
			Ethylene Dibromide	2022/04/13		95	%	70 - 130
			Hexane	2022/04/13		96	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/04/13		96	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13		119	%	60 - 140
			Methyl Isobutyl Ketone	2022/04/13		110	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/04/13		90	%	70 - 130
			Styrene	2022/04/13		107	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/04/13		97	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/04/13		96	%	70 - 130
			Tetrachloroethylene	2022/04/13		89	%	70 - 130
			Toluene	2022/04/13		95	%	70 - 130
			1,1,1-Trichloroethane	2022/04/13		97	%	70 - 130
			1,1,2-Trichloroethane	2022/04/13		100	%	70 - 130
			Trichloroethylene	2022/04/13		100	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/04/13		99	%	70 - 130
			Vinyl Chloride	2022/04/13		100	%	70 - 130
			p+m-Xylene	2022/04/13		96	%	70 - 130
			o-Xylene	2022/04/13		94	%	70 - 130
			F1 (C6-C10)	2022/04/13		97	%	60 - 140
			4-Bromofluorobenzene	2022/04/13		91	%	70 - 130
			D4-1,2-Dichloroethane	2022/04/13		100	%	70 - 130
			D8-Toluene	2022/04/13		93	%	70 - 130
			Acetone (2-Propanone)	2022/04/13	<10		ug/L	
			Benzene	2022/04/13	<0.17		ug/L	
			Bromodichloromethane	2022/04/13	<0.50		ug/L	
			Bromoform	2022/04/13	<1.0		ug/L	
			Bromomethane	2022/04/13	<0.50		ug/L	
			Carbon Tetrachloride	2022/04/13	<0.20		ug/L	
			Chlorobenzene	2022/04/13	<0.20		ug/L	
			Chloroform	2022/04/13	<0.20		ug/L	
			Dibromochloromethane	2022/04/13	<0.50		ug/L	



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			1,3-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			1,4-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2022/04/13	<1.0		ug/L	
			1,1-Dichloroethane	2022/04/13	<0.20		ug/L	
			1,2-Dichloroethane	2022/04/13	<0.50		ug/L	
			1,1-Dichloroethylene	2022/04/13	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2022/04/13	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2022/04/13	<0.50		ug/L	
			1,2-Dichloropropane	2022/04/13	<0.20		ug/L	
			cis-1,3-Dichloropropene	2022/04/13	<0.30		ug/L	
			trans-1,3-Dichloropropene	2022/04/13	<0.40		ug/L	
			Ethylbenzene	2022/04/13	<0.20		ug/L	
			Ethylene Dibromide	2022/04/13	<0.20		ug/L	
			Hexane	2022/04/13	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2022/04/13	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13	<10		ug/L	
			Methyl Isobutyl Ketone	2022/04/13	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2022/04/13	<0.50		ug/L	
			Styrene	2022/04/13	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2022/04/13	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2022/04/13	<0.50		ug/L	
			Tetrachloroethylene	2022/04/13	<0.20		ug/L	
			Toluene	2022/04/13	<0.20		ug/L	
			1,1,1-Trichloroethane	2022/04/13	<0.20		ug/L	
			1,1,2-Trichloroethane	2022/04/13	<0.50		ug/L	
			Trichloroethylene	2022/04/13	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2022/04/13	<0.50		ug/L	
			Vinyl Chloride	2022/04/13	<0.20		ug/L	
			p+m-Xylene	2022/04/13	<0.20		ug/L	
			o-Xylene	2022/04/13	<0.20		ug/L	
			Total Xylenes	2022/04/13	<0.20		ug/L	
			F1 (C6-C10)	2022/04/13	<25		ug/L	
			F1 (C6-C10) - BTEX	2022/04/13	<25		ug/L	
7933318	AYA	RPD [SIA208-03]	Acetone (2-Propanone)	2022/04/13	NC		%	30
			Benzene	2022/04/13	2.7		%	30
			Bromodichloromethane	2022/04/13	NC		%	30
			Bromoform	2022/04/13	NC		%	30
			Bromomethane	2022/04/13	NC		%	30
			Carbon Tetrachloride	2022/04/13	NC		%	30
			Chlorobenzene	2022/04/13	NC		%	30
			Chloroform	2022/04/13	NC		%	30
			Dibromochloromethane	2022/04/13	NC		%	30
			1,2-Dichlorobenzene	2022/04/13	NC		%	30
			1,3-Dichlorobenzene	2022/04/13	NC		%	30
			1,4-Dichlorobenzene	2022/04/13	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2022/04/13	NC		%	30
			1,1-Dichloroethane	2022/04/13	NC		%	30
			1,2-Dichloroethane	2022/04/13	NC		%	30
			1,1-Dichloroethylene	2022/04/13	NC		%	30



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,2-Dichloroethylene	2022/04/13	NC		%	30
			trans-1,2-Dichloroethylene	2022/04/13	NC		%	30
			1,2-Dichloropropane	2022/04/13	NC		%	30
			cis-1,3-Dichloropropene	2022/04/13	NC		%	30
			trans-1,3-Dichloropropene	2022/04/13	NC		%	30
			Ethylbenzene	2022/04/13	NC		%	30
			Ethylene Dibromide	2022/04/13	NC		%	30
			Hexane	2022/04/13	NC		%	30
			Methylene Chloride(Dichloromethane)	2022/04/13	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13	NC		%	30
			Methyl Isobutyl Ketone	2022/04/13	NC		%	30
			Methyl t-butyl ether (MTBE)	2022/04/13	NC		%	30
			Styrene	2022/04/13	NC		%	30
			1,1,1,2-Tetrachloroethane	2022/04/13	NC		%	30
			1,1,2,2-Tetrachloroethane	2022/04/13	NC		%	30
			Tetrachloroethylene	2022/04/13	NC		%	30
			Toluene	2022/04/13	0.52		%	30
			1,1,1-Trichloroethane	2022/04/13	NC		%	30
			1,1,2-Trichloroethane	2022/04/13	NC		%	30
			Trichloroethylene	2022/04/13	NC		%	30
			Trichlorofluoromethane (FREON 11)	2022/04/13	NC		%	30
			Vinyl Chloride	2022/04/13	NC		%	30
			p+m-Xylene	2022/04/13	NC		%	30
			o-Xylene	2022/04/13	NC		%	30
			Total Xylenes	2022/04/13	NC		%	30
			F1 (C6-C10)	2022/04/13	NC		%	30
			F1 (C6-C10) - BTEX	2022/04/13	NC		%	30
7933974	RAJ	Matrix Spike [SIA208-02]	D10-Anthracene	2022/04/11		94	%	50 - 130
			D14-Terphenyl (FS)	2022/04/11		99	%	50 - 130
			D8-Acenaphthylene	2022/04/11		94	%	50 - 130
			Acenaphthene	2022/04/11		110	%	50 - 130
			Acenaphthylene	2022/04/11		106	%	50 - 130
			Anthracene	2022/04/11		101	%	50 - 130
			Benzo(a)anthracene	2022/04/11		92	%	50 - 130
			Benzo(a)pyrene	2022/04/11		84	%	50 - 130
			Benzo(b/j)fluoranthene	2022/04/11		83	%	50 - 130
			Benzo(g,h,i)perylene	2022/04/11		82	%	50 - 130
			Benzo(k)fluoranthene	2022/04/11		85	%	50 - 130
			Chrysene	2022/04/11		86	%	50 - 130
			Dibenzo(a,h)anthracene	2022/04/11		80	%	50 - 130
			Fluoranthene	2022/04/11		115	%	50 - 130
			Fluorene	2022/04/11		106	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/04/11		84	%	50 - 130
			1-Methylnaphthalene	2022/04/11		117	%	50 - 130
			2-Methylnaphthalene	2022/04/11		106	%	50 - 130
			Naphthalene	2022/04/11		101	%	50 - 130
			Phenanthrene	2022/04/11		105	%	50 - 130
			Pyrene	2022/04/11		111	%	50 - 130
7933974	RAJ	Spiked Blank	D10-Anthracene	2022/04/11		101	%	50 - 130
			D14-Terphenyl (FS)	2022/04/11		108	%	50 - 130



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7933974	RAJ	Method Blank	D8-Acenaphthylene	2022/04/11		99	%	50 - 130
			Acenaphthene	2022/04/11		105	%	50 - 130
			Acenaphthylene	2022/04/11		99	%	50 - 130
			Anthracene	2022/04/11		101	%	50 - 130
			Benzo(a)anthracene	2022/04/11		107	%	50 - 130
			Benzo(a)pyrene	2022/04/11		105	%	50 - 130
			Benzo(b/j)fluoranthene	2022/04/11		104	%	50 - 130
			Benzo(g,h,i)perylene	2022/04/11		107	%	50 - 130
			Benzo(k)fluoranthene	2022/04/11		107	%	50 - 130
			Chrysene	2022/04/11		106	%	50 - 130
			Dibenzo(a,h)anthracene	2022/04/11		104	%	50 - 130
			Fluoranthene	2022/04/11		115	%	50 - 130
			Fluorene	2022/04/11		101	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/04/11		109	%	50 - 130
			1-Methylnaphthalene	2022/04/11		105	%	50 - 130
			2-Methylnaphthalene	2022/04/11		96	%	50 - 130
			Naphthalene	2022/04/11		84	%	50 - 130
			Phenanthrene	2022/04/11		103	%	50 - 130
			Pyrene	2022/04/11		112	%	50 - 130
			D10-Anthracene	2022/04/11		90	%	50 - 130
			D14-Terphenyl (FS)	2022/04/11		96	%	50 - 130
			D8-Acenaphthylene	2022/04/11		91	%	50 - 130
			Acenaphthene	2022/04/11	<0.050		ug/L	
			Acenaphthylene	2022/04/11	<0.050		ug/L	
			Anthracene	2022/04/11	<0.050		ug/L	
			Benzo(a)anthracene	2022/04/11	<0.050		ug/L	
			Benzo(a)pyrene	2022/04/11	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2022/04/11	<0.050		ug/L	
			Benzo(g,h,i)perylene	2022/04/11	<0.050		ug/L	
			Benzo(k)fluoranthene	2022/04/11	<0.050		ug/L	
			Chrysene	2022/04/11	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2022/04/11	<0.050		ug/L	
			Fluoranthene	2022/04/11	<0.050		ug/L	
			Fluorene	2022/04/11	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2022/04/11	<0.050		ug/L	
			1-Methylnaphthalene	2022/04/11	<0.050		ug/L	
			2-Methylnaphthalene	2022/04/11	<0.050		ug/L	
			Naphthalene	2022/04/11	<0.050		ug/L	
			Phenanthrene	2022/04/11	<0.030		ug/L	
			Pyrene	2022/04/11	<0.050		ug/L	
7933974	RAJ	RPD [SIA209-02]	Acenaphthene	2022/04/11	NC		%	30
			Acenaphthylene	2022/04/11	NC		%	30
			Anthracene	2022/04/11	NC		%	30
			Benzo(a)anthracene	2022/04/11	NC		%	30
			Benzo(a)pyrene	2022/04/11	NC		%	30
			Benzo(b/j)fluoranthene	2022/04/11	NC		%	30
			Benzo(g,h,i)perylene	2022/04/11	NC		%	30
			Benzo(k)fluoranthene	2022/04/11	NC		%	30
			Chrysene	2022/04/11	NC		%	30
			Dibenzo(a,h)anthracene	2022/04/11	NC		%	30



**BUREAU
VERITAS**

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Fluoranthene	2022/04/11	NC		%	30
			Fluorene	2022/04/11	NC		%	30
			Indeno(1,2,3-cd)pyrene	2022/04/11	NC		%	30
			1-Methylnaphthalene	2022/04/11	NC		%	30
			2-Methylnaphthalene	2022/04/11	NC		%	30
			Naphthalene	2022/04/11	NC		%	30
			Phenanthrene	2022/04/11	NC		%	30
			Pyrene	2022/04/11	NC		%	30
7933993	ABS	Matrix Spike [SIA210-02]	o-Terphenyl	2022/04/11		101	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11		97	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/04/11		NC	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/04/11		92	%	60 - 130
7933993	ABS	Spiked Blank	o-Terphenyl	2022/04/11		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11		105	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/04/11		105	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/04/11		101	%	60 - 130
7933993	ABS	Method Blank	o-Terphenyl	2022/04/11		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2022/04/11	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2022/04/11	<200		ug/L	
7933993	ABS	RPD [SIA209-02]	F2 (C10-C16 Hydrocarbons)	2022/04/12	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/04/12	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/04/12	NC		%	30
7934209	N_R	Matrix Spike	Dissolved Antimony (Sb)	2022/04/14		105	%	80 - 120
			Dissolved Arsenic (As)	2022/04/14		100	%	80 - 120
			Dissolved Barium (Ba)	2022/04/14		101	%	80 - 120
			Dissolved Beryllium (Be)	2022/04/14		109	%	80 - 120
			Dissolved Boron (B)	2022/04/14		101	%	80 - 120
			Dissolved Cadmium (Cd)	2022/04/14		100	%	80 - 120
			Dissolved Chromium (Cr)	2022/04/14		96	%	80 - 120
			Dissolved Cobalt (Co)	2022/04/14		97	%	80 - 120
			Dissolved Copper (Cu)	2022/04/14		99	%	80 - 120
			Dissolved Lead (Pb)	2022/04/14		93	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/04/14		107	%	80 - 120
			Dissolved Nickel (Ni)	2022/04/14		93	%	80 - 120
			Dissolved Selenium (Se)	2022/04/14		99	%	80 - 120
			Dissolved Silver (Ag)	2022/04/14		94	%	80 - 120
			Dissolved Sodium (Na)	2022/04/14		NC	%	80 - 120
			Dissolved Thallium (Tl)	2022/04/14		94	%	80 - 120
			Dissolved Uranium (U)	2022/04/14		96	%	80 - 120
			Dissolved Vanadium (V)	2022/04/14		98	%	80 - 120
			Dissolved Zinc (Zn)	2022/04/14		94	%	80 - 120
7934209	N_R	Spiked Blank	Dissolved Antimony (Sb)	2022/04/14		99	%	80 - 120
			Dissolved Arsenic (As)	2022/04/14		99	%	80 - 120
			Dissolved Barium (Ba)	2022/04/14		101	%	80 - 120
			Dissolved Beryllium (Be)	2022/04/14		103	%	80 - 120
			Dissolved Boron (B)	2022/04/14		101	%	80 - 120
			Dissolved Cadmium (Cd)	2022/04/14		97	%	80 - 120
			Dissolved Chromium (Cr)	2022/04/14		96	%	80 - 120
			Dissolved Cobalt (Co)	2022/04/14		99	%	80 - 120



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7934209	N_R	Method Blank	Dissolved Copper (Cu)	2022/04/14		98	%	80 - 120
			Dissolved Lead (Pb)	2022/04/14		97	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/04/14		99	%	80 - 120
			Dissolved Nickel (Ni)	2022/04/14		95	%	80 - 120
			Dissolved Selenium (Se)	2022/04/14		98	%	80 - 120
			Dissolved Silver (Ag)	2022/04/14		99	%	80 - 120
			Dissolved Sodium (Na)	2022/04/14		98	%	80 - 120
			Dissolved Thallium (Tl)	2022/04/14		97	%	80 - 120
			Dissolved Uranium (U)	2022/04/14		98	%	80 - 120
			Dissolved Vanadium (V)	2022/04/14		97	%	80 - 120
			Dissolved Zinc (Zn)	2022/04/14		95	%	80 - 120
			Dissolved Antimony (Sb)	2022/04/14	<0.50		ug/L	
			Dissolved Arsenic (As)	2022/04/14	<1.0		ug/L	
			Dissolved Barium (Ba)	2022/04/14	<2.0		ug/L	
			Dissolved Beryllium (Be)	2022/04/14	<0.40		ug/L	
			Dissolved Boron (B)	2022/04/14	<10		ug/L	
			Dissolved Cadmium (Cd)	2022/04/14	<0.090		ug/L	
			Dissolved Chromium (Cr)	2022/04/14	<5.0		ug/L	
			Dissolved Cobalt (Co)	2022/04/14	<0.50		ug/L	
			Dissolved Copper (Cu)	2022/04/14	<0.90		ug/L	
			Dissolved Lead (Pb)	2022/04/14	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2022/04/14	<0.50		ug/L	
			Dissolved Nickel (Ni)	2022/04/14	<1.0		ug/L	
			Dissolved Selenium (Se)	2022/04/14	<2.0		ug/L	
			Dissolved Silver (Ag)	2022/04/14	<0.090		ug/L	
			Dissolved Sodium (Na)	2022/04/14	<100		ug/L	
			Dissolved Thallium (Tl)	2022/04/14	<0.050		ug/L	
			Dissolved Uranium (U)	2022/04/14	<0.10		ug/L	
			Dissolved Vanadium (V)	2022/04/14	<0.50		ug/L	
			Dissolved Zinc (Zn)	2022/04/14	<5.0		ug/L	
7934209	N_R	RPD	Dissolved Antimony (Sb)	2022/04/14	NC		%	20
			Dissolved Arsenic (As)	2022/04/14	NC		%	20
			Dissolved Barium (Ba)	2022/04/14	1.0		%	20
			Dissolved Beryllium (Be)	2022/04/14	NC		%	20
			Dissolved Boron (B)	2022/04/14	1.4		%	20
			Dissolved Cadmium (Cd)	2022/04/14	NC		%	20
			Dissolved Chromium (Cr)	2022/04/14	NC		%	20
			Dissolved Cobalt (Co)	2022/04/14	0.11		%	20
			Dissolved Copper (Cu)	2022/04/14	0.97		%	20
			Dissolved Lead (Pb)	2022/04/14	NC		%	20
			Dissolved Molybdenum (Mo)	2022/04/14	5.2		%	20
			Dissolved Nickel (Ni)	2022/04/14	1.8		%	20
			Dissolved Selenium (Se)	2022/04/14	NC		%	20
			Dissolved Silver (Ag)	2022/04/14	NC		%	20
			Dissolved Sodium (Na)	2022/04/14	1.8		%	20
			Dissolved Thallium (Tl)	2022/04/14	NC		%	20
			Dissolved Uranium (U)	2022/04/14	1.3		%	20
			Dissolved Vanadium (V)	2022/04/14	NC		%	20



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Zinc (Zn)	2022/04/14	NC		%	20
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.									
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.									
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 (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)									
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).									



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas
6740 Campbell Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvna.com

CH

Page 1 of 1

09-Apr-22 08:27

Deepthi Shaji

C294362

KTN

ENV-1085



Order #:



871758

Project Manager:

Deepthi Shaji

INVOICE TO:
Company Name: #34874 BLUEFROG ENVIRONMENTAL CONSULTING
Attention: Oshin Gharabegian
Address: SUITE 100-208 WYECROFT ROAD
OAKVILLE ON L6K 3T8
Tel: Fax:
Email: ogharabegian@bluefrogconsulting.ca

REPORT TO:
Company Name:
Attention: Oshin Gharabegian
Address:
Tel: Fax:
Email: ogharabegian@bluefrogconsulting.ca

PROJECT INFORMATION:
Quotation #: C20119
P.O. #: 0138-001.02
Project: 0138-001.02
Project Name:
Site #: 1310 South Service Rd.
Sampled By: Claire Houlden

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Table 2 ☐ Table 3 ☒ Table 4	☒ Res/Park ☐ Medium/Fine ☐ Ind/Comm ☐ Agri/Other ☐ CCME ☐ Reg 558 ☐ MISA ☐ PWQO ☐ Other	☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw ☐ Municipality ☐ Reg 406 Table

Include Criteria on Certificate of Analysis (Y/N)? N

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix
1	MW112	22/04/08	1341	GW
2	MW113	22/04/08	1300	GW
3	MW114	22/04/08	1436	GW
4				
5				
6				
7				
8				
9				
10				

Field Filtered (please circle):
Metals / Hg / Cr VI

O Reg 153 VOCs by HS & F1-F4

O Reg 153 Metals Package (incl HG and Cr6)

Hamilton Sanitary & Storm Sewer (14-050)

O Reg 153 10 PMS Metals

O Reg 153 3 PMS PAHs

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT:

(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

Date Required: Time Required:

Rush Confirmation Number: (call lab for #)

of Bottles

Comments

6

6

6

RELINQUISHED BY: (Signature/Print)

Date: (YY/MM/DD)

Time

RECEIVED BY: (Signature/Print)

Date: (YY/MM/DD)

Time

Jars used and not submitted

Laboratory Use Only

Time Sensitive

Temperature (°C) on Receipt

Custody Seal

Present

Intact

Yes

No

White: Bureau Veritas Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

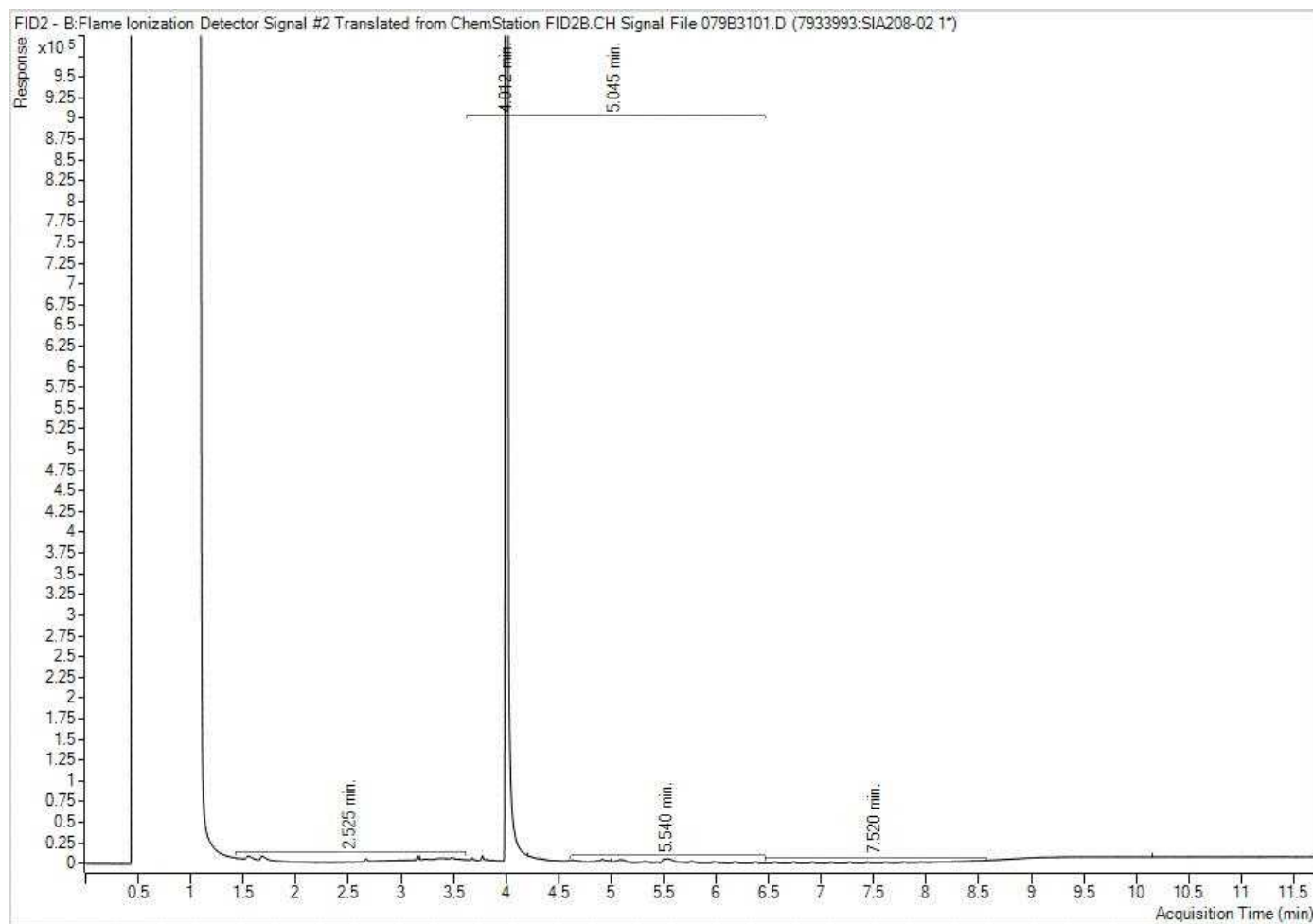
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

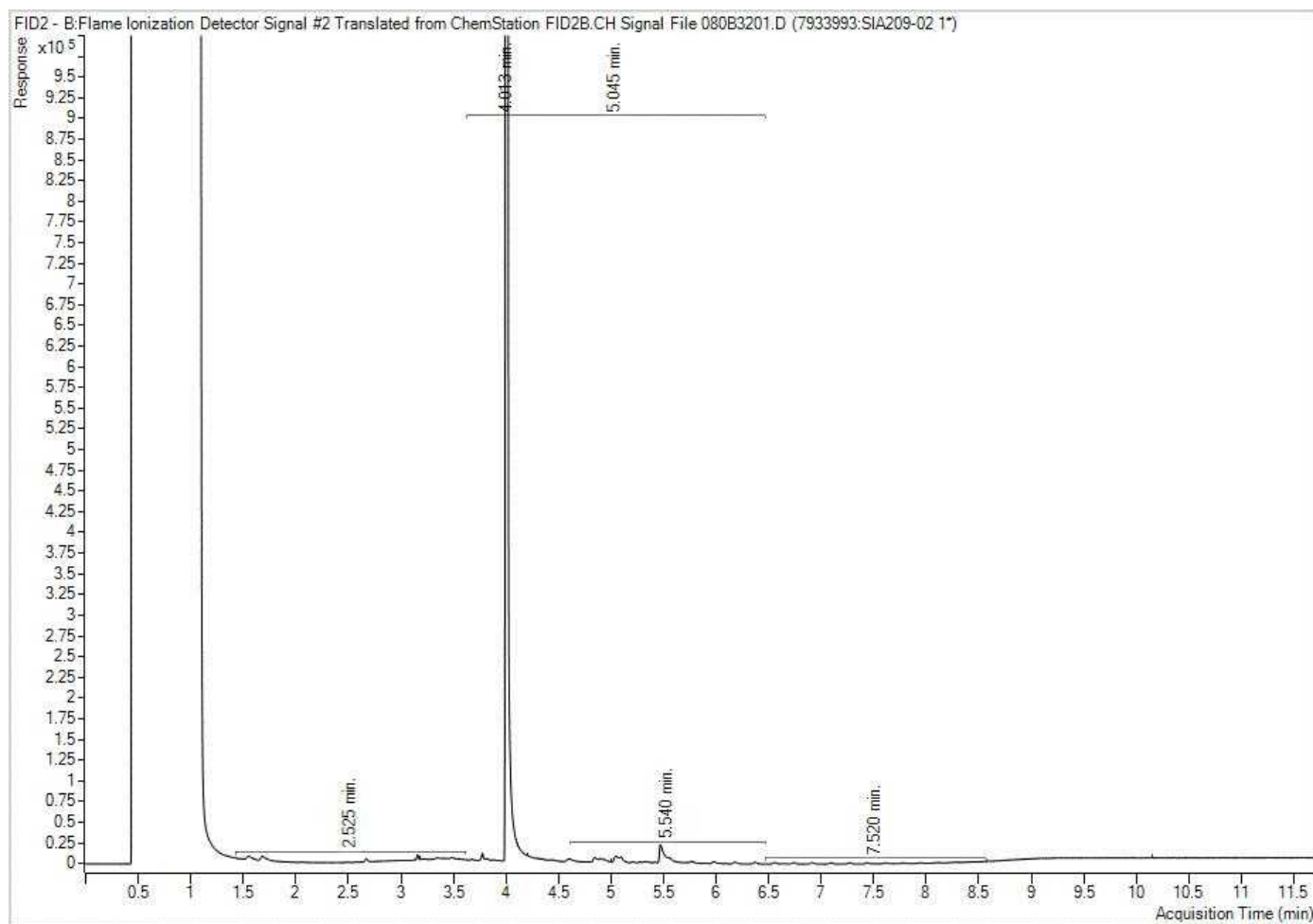
Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



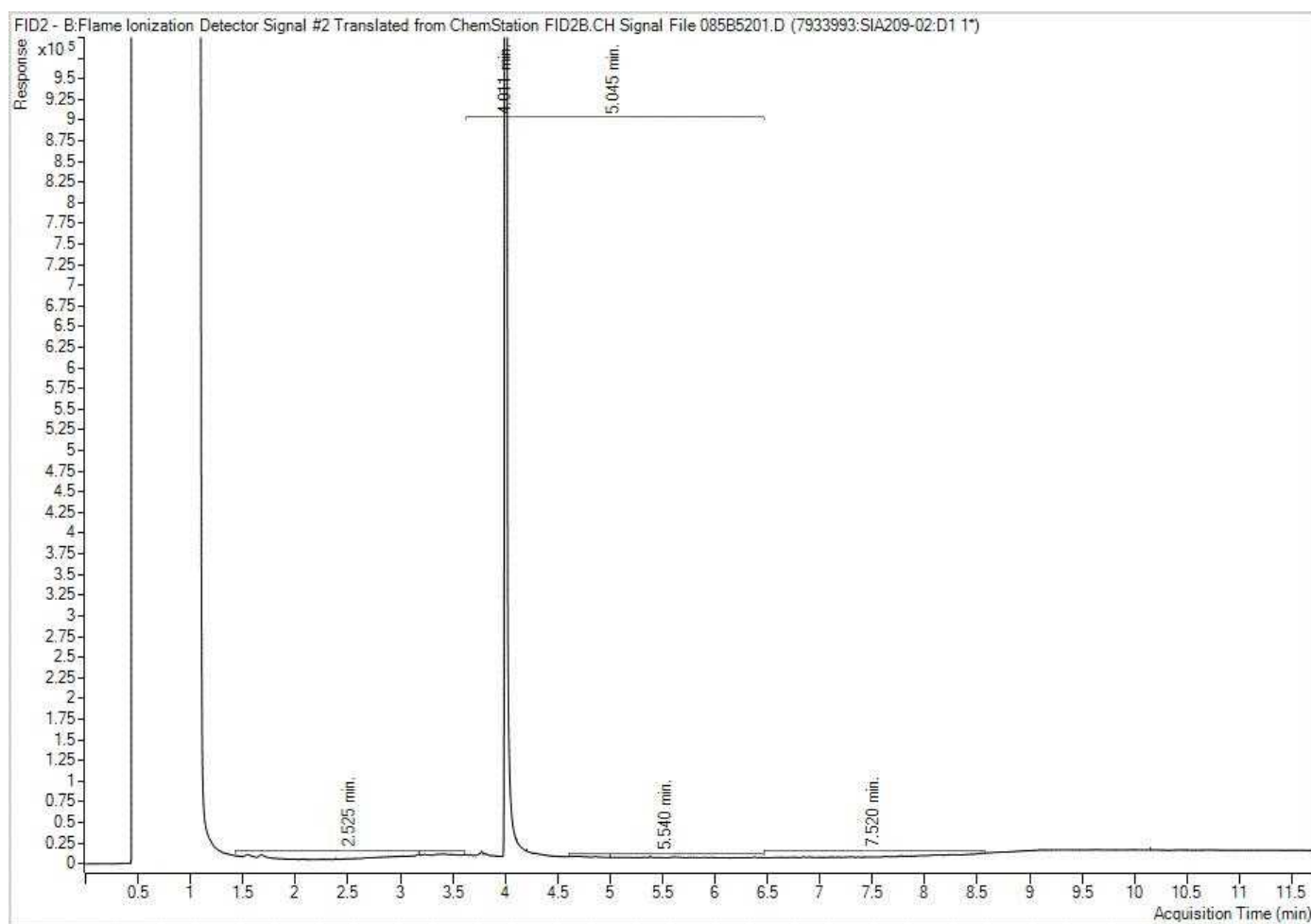
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



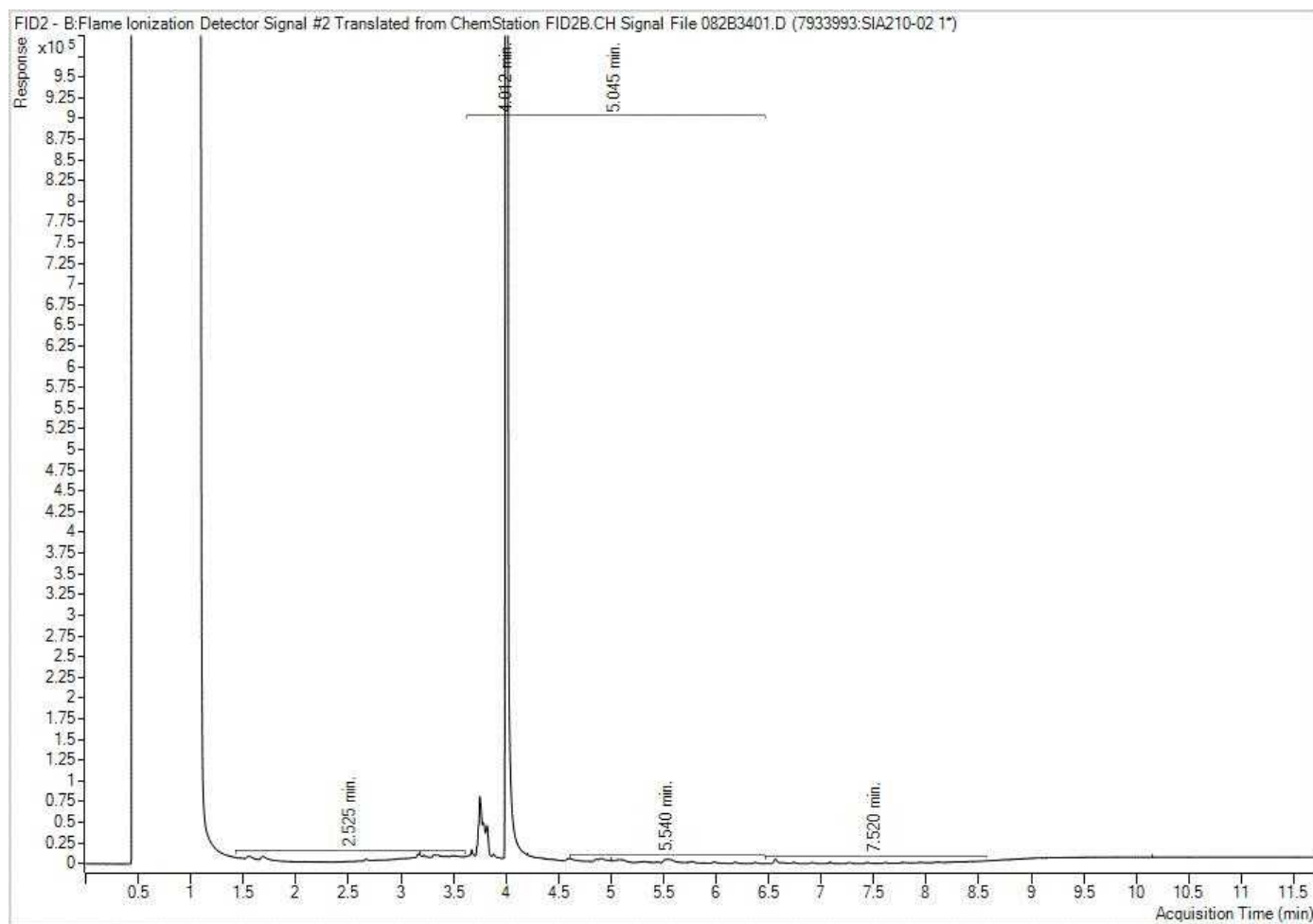
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your P.O. #: 0138-001.02
Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your C.O.C. #: 871758-01-01

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/04/18
Report #: R7090438
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C295780

Received: 2022/04/11, 18:58

Sample Matrix: Water
Samples Received: 5

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
1,3-Dichloropropene Sum	4	N/A	2022/04/14		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2022/04/18	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	5	2022/04/14	2022/04/14	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	4	N/A	2022/04/18	CAM SOP-00447	EPA 6020B m
Volatile Organic Compounds and F1 PHCs	4	N/A	2022/04/13	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.



Your P.O. #: 0138-001.02
Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your C.O.C. #: 871758-01-01

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/04/18

Report #: R7090438

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C295780

Received: 2022/04/11, 18:58

Encryption Key



Bureau Veritas

18 Apr 2022 18:02:27

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

Deepthi Shaji, Project Manager

Email: Deepthi.Shaji@bureauveritas.com

Phone# (905)817-5700 Ext:7065843

=====

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Total Cover Pages : 2

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



BUREAU
VERITAS

Bureau Veritas Job #: C295780
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID		SIJ216		SIJ217		SIJ218	SIJ220		
Sampling Date		2022/04/11 17:35		2022/04/11 16:24		2022/04/11 15:25	2022/04/11 13:14		
COC Number		871758-01-01		871758-01-01		871758-01-01	871758-01-01		
	UNITS	MW21-8	RDL	BH401	RDL	BH201	BH303	RDL	QC Batch
Metals									
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	0.63	0.50	<0.50	<0.50	0.50	7937833
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7937833
Dissolved Barium (Ba)	ug/L	21	2.0	26	2.0	470	25	2.0	7937833
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7937833
Dissolved Boron (B)	ug/L	300	10	6200	50	260	440	10	7937833
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7937833
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7937833
Dissolved Cobalt (Co)	ug/L	4.8	0.50	<0.50	0.50	<0.50	<0.50	0.50	7937833
Dissolved Copper (Cu)	ug/L	1.4	0.90	1.3	0.90	<0.90	2.4	0.90	7937833
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7937833
Dissolved Molybdenum (Mo)	ug/L	2.1	0.50	41	0.50	<0.50	4.5	0.50	7937833
Dissolved Nickel (Ni)	ug/L	7.4	1.0	<1.0	1.0	2.4	1.5	1.0	7937833
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7937833
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7937833
Dissolved Sodium (Na)	ug/L	530000	100	990000	500	430000	160000	100	7937833
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	<0.050	0.050	7937833
Dissolved Uranium (U)	ug/L	9.2	0.10	1.2	0.10	<0.10	10	0.10	7937833
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	1.1	0.50	7937833
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7937833
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

Bureau Veritas Job #: C295780

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID		SIJ219		
Sampling Date		2022/04/11 15:24		
COC Number		871758-01-01		
	UNITS	DUP-1	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	830	0.40	7942636
Toluene	ug/L	34	0.40	7942636
Ethylbenzene	ug/L	1400	0.40	7942636
o-Xylene	ug/L	85	0.40	7942636
p+m-Xylene	ug/L	1800	0.80	7942636
Total Xylenes	ug/L	1900	0.80	7942636
F1 (C6-C10)	ug/L	8500	50	7942636
F1 (C6-C10) - BTEX	ug/L	4400	50	7942636
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	2700	100	7940201
F3 (C16-C34 Hydrocarbons)	ug/L	450	200	7940201
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7940201
Reached Baseline at C50	ug/L	Yes		7940201
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	91		7942636
4-Bromofluorobenzene	%	122		7942636
D10-o-Xylene	%	111		7942636
D4-1,2-Dichloroethane	%	81		7942636
o-Terphenyl	%	95		7940201
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C295780
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIJ216	SIJ217		SIJ218		SIJ220		
Sampling Date		2022/04/11 17:35	2022/04/11 16:24		2022/04/11 15:25		2022/04/11 13:14		
COC Number		871758-01-01	871758-01-01		871758-01-01		871758-01-01		
	UNITS	MW21-8	BH401	RDL	BH201	RDL	BH303	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7934814
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	<10	10	<60 (1)	60	<10	10	7935483
Benzene	ug/L	<0.17	<0.17	0.17	850	3.4	<0.17	0.17	7935483
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
Bromoform	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7935483
Bromomethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
Chlorobenzene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
Chloroform	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7935483
1,1-Dichloroethane	ug/L	0.32	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	<0.30	0.30	<0.30	0.30	7935483
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7935483
Ethylbenzene	ug/L	<0.20	<0.20	0.20	1300	4.0	<0.20	0.20	7935483
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
Hexane	ug/L	<1.0	<1.0	1.0	160	1.0	<1.0	1.0	7935483
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7935483
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	<10	10	<10	10	7935483
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7935483
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) The detection limit was raised due to matrix interference.									



BUREAU
VERITAS

Bureau Veritas Job #: C295780
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIJ216	SIJ217		SIJ218		SIJ220		
Sampling Date		2022/04/11 17:35	2022/04/11 16:24		2022/04/11 15:25		2022/04/11 13:14		
COC Number		871758-01-01	871758-01-01		871758-01-01		871758-01-01		
	UNITS	MW21-8	BH401	RDL	BH201	RDL	BH303	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	1.0	0.50	<0.50	0.50	7935483
Styrene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
Toluene	ug/L	<0.20	<0.20	0.20	37	0.20	<0.20	0.20	7935483
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
Trichloroethylene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7935483
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	7935483
p+m-Xylene	ug/L	<0.20	<0.20	0.20	1800	4.0	<0.20	0.20	7935483
o-Xylene	ug/L	<0.20	<0.20	0.20	84	0.20	<0.20	0.20	7935483
Total Xylenes	ug/L	<0.20	<0.20	0.20	1900	4.0	<0.20	0.20	7935483
F1 (C6-C10)	ug/L	<25	<25	25	8200	500	<25	25	7935483
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	4200	500	<25	25	7935483
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	2700	100	<100	100	7940201
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	500	200	<200	200	7940201
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	<200	200	<200	200	7940201
Reached Baseline at C50	ug/L	Yes	Yes		Yes		Yes		7940201
Surrogate Recovery (%)									
o-Terphenyl	%	96	96		95		95		7940201
4-Bromofluorobenzene	%	89	89		103		89		7935483
D4-1,2-Dichloroethane	%	103	104		91		104		7935483
D8-Toluene	%	93	90		107		92		7935483
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

Bureau Veritas Job #: C295780
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

TEST SUMMARY

Bureau Veritas ID: SIJ216
Sample ID: MW21-8
Matrix: Water

Collected: 2022/04/11
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7934814	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7940201	2022/04/14	2022/04/14	Ksenia Trofimova
Dissolved Metals by ICPMS	ICP/MS	7937833	N/A	2022/04/18	Arefa Dabhad
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7935483	N/A	2022/04/13	Xueming Jiang

Bureau Veritas ID: SIJ217
Sample ID: BH401
Matrix: Water

Collected: 2022/04/11
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7934814	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7940201	2022/04/14	2022/04/14	Ksenia Trofimova
Dissolved Metals by ICPMS	ICP/MS	7937833	N/A	2022/04/18	Arefa Dabhad
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7935483	N/A	2022/04/13	Xueming Jiang

Bureau Veritas ID: SIJ218
Sample ID: BH201
Matrix: Water

Collected: 2022/04/11
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7934814	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7940201	2022/04/14	2022/04/14	Ksenia Trofimova
Dissolved Metals by ICPMS	ICP/MS	7937833	N/A	2022/04/18	Arefa Dabhad
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7935483	N/A	2022/04/13	Xueming Jiang

Bureau Veritas ID: SIJ219
Sample ID: DUP-1
Matrix: Water

Collected: 2022/04/11
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7942636	N/A	2022/04/18	Joe Paino
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7940201	2022/04/14	2022/04/14	Ksenia Trofimova

Bureau Veritas ID: SIJ220
Sample ID: BH303
Matrix: Water

Collected: 2022/04/11
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7934814	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7940201	2022/04/14	2022/04/14	Ksenia Trofimova
Dissolved Metals by ICPMS	ICP/MS	7937833	N/A	2022/04/18	Arefa Dabhad
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7935483	N/A	2022/04/13	Xueming Jiang



BUREAU
VERITAS

Bureau Veritas Job #: C295780

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	10.0°C
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Sample SIJ218 [BH201] : VOCF1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample SIJ219 [DUP-1] : F1 BTEX analysis: Due to high concentration of target analytes, sample required dilution. Reporting limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C295780
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7935483	XII	Matrix Spike		4-Bromofluorobenzene	2022/04/13		101	%	70 - 130
				D4-1,2-Dichloroethane	2022/04/13		97	%	70 - 130
				D8-Toluene	2022/04/13		105	%	70 - 130
				Acetone (2-Propanone)	2022/04/13		96	%	60 - 140
				Benzene	2022/04/13		86	%	70 - 130
				Bromodichloromethane	2022/04/13		92	%	70 - 130
				Bromoform	2022/04/13		95	%	70 - 130
				Bromomethane	2022/04/13		96	%	60 - 140
				Carbon Tetrachloride	2022/04/13		90	%	70 - 130
				Chlorobenzene	2022/04/13		94	%	70 - 130
				Chloroform	2022/04/13		90	%	70 - 130
				Dibromochloromethane	2022/04/13		92	%	70 - 130
				1,2-Dichlorobenzene	2022/04/13		92	%	70 - 130
				1,3-Dichlorobenzene	2022/04/13		92	%	70 - 130
				1,4-Dichlorobenzene	2022/04/13		107	%	70 - 130
				Dichlorodifluoromethane (FREON 12)	2022/04/13		85	%	60 - 140
				1,1-Dichloroethane	2022/04/13		87	%	70 - 130
				1,2-Dichloroethane	2022/04/13		85	%	70 - 130
				1,1-Dichloroethylene	2022/04/13		87	%	70 - 130
				cis-1,2-Dichloroethylene	2022/04/13		96	%	70 - 130
				trans-1,2-Dichloroethylene	2022/04/13		92	%	70 - 130
				1,2-Dichloropropane	2022/04/13		93	%	70 - 130
				cis-1,3-Dichloropropene	2022/04/13		90	%	70 - 130
				trans-1,3-Dichloropropene	2022/04/13		98	%	70 - 130
				Ethylbenzene	2022/04/13		83	%	70 - 130
				Ethylene Dibromide	2022/04/13		91	%	70 - 130
				Hexane	2022/04/13		90	%	70 - 130
				Methylene Chloride(Dichloromethane)	2022/04/13		91	%	70 - 130
				Methyl Ethyl Ketone (2-Butanone)	2022/04/13		98	%	60 - 140
				Methyl Isobutyl Ketone	2022/04/13		94	%	70 - 130
				Methyl t-butyl ether (MTBE)	2022/04/13		82	%	70 - 130
				Styrene	2022/04/13		99	%	70 - 130
				1,1,1,2-Tetrachloroethane	2022/04/13		95	%	70 - 130
				1,1,2,2-Tetrachloroethane	2022/04/13		92	%	70 - 130
				Tetrachloroethylene	2022/04/13		88	%	70 - 130
				Toluene	2022/04/13		86	%	70 - 130
				1,1,1-Trichloroethane	2022/04/13		91	%	70 - 130
				1,1,2-Trichloroethane	2022/04/13		93	%	70 - 130
				Trichloroethylene	2022/04/13		96	%	70 - 130
				Trichlorofluoromethane (FREON 11)	2022/04/13		89	%	70 - 130
				Vinyl Chloride	2022/04/13		95	%	70 - 130
				p+m-Xylene	2022/04/13		90	%	70 - 130
				o-Xylene	2022/04/13		88	%	70 - 130
				F1 (C6-C10)	2022/04/13		90	%	60 - 140
7935483	XII	Spiked Blank		4-Bromofluorobenzene	2022/04/13		100	%	70 - 130
				D4-1,2-Dichloroethane	2022/04/13		93	%	70 - 130
				D8-Toluene	2022/04/13		106	%	70 - 130
				Acetone (2-Propanone)	2022/04/13		89	%	60 - 140
				Benzene	2022/04/13		90	%	70 - 130
				Bromodichloromethane	2022/04/13		94	%	70 - 130



**BUREAU
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Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Bromoform	2022/04/13		95	%	70 - 130
			Bromomethane	2022/04/13		99	%	60 - 140
			Carbon Tetrachloride	2022/04/13		96	%	70 - 130
			Chlorobenzene	2022/04/13		98	%	70 - 130
			Chloroform	2022/04/13		93	%	70 - 130
			Dibromochloromethane	2022/04/13		92	%	70 - 130
			1,2-Dichlorobenzene	2022/04/13		98	%	70 - 130
			1,3-Dichlorobenzene	2022/04/13		98	%	70 - 130
			1,4-Dichlorobenzene	2022/04/13		114	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/04/13		91	%	60 - 140
			1,1-Dichloroethane	2022/04/13		91	%	70 - 130
			1,2-Dichloroethane	2022/04/13		85	%	70 - 130
			1,1-Dichloroethylene	2022/04/13		92	%	70 - 130
			cis-1,2-Dichloroethylene	2022/04/13		99	%	70 - 130
			trans-1,2-Dichloroethylene	2022/04/13		96	%	70 - 130
			1,2-Dichloropropane	2022/04/13		95	%	70 - 130
			cis-1,3-Dichloropropene	2022/04/13		90	%	70 - 130
			trans-1,3-Dichloropropene	2022/04/13		98	%	70 - 130
			Ethylbenzene	2022/04/13		89	%	70 - 130
			Ethylene Dibromide	2022/04/13		90	%	70 - 130
			Hexane	2022/04/13		98	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/04/13		93	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13		91	%	60 - 140
			Methyl Isobutyl Ketone	2022/04/13		90	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/04/13		84	%	70 - 130
			Styrene	2022/04/13		104	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/04/13		98	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/04/13		91	%	70 - 130
			Tetrachloroethylene	2022/04/13		94	%	70 - 130
			Toluene	2022/04/13		92	%	70 - 130
			1,1,1-Trichloroethane	2022/04/13		95	%	70 - 130
			1,1,2-Trichloroethane	2022/04/13		92	%	70 - 130
			Trichloroethylene	2022/04/13		102	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/04/13		95	%	70 - 130
			Vinyl Chloride	2022/04/13		100	%	70 - 130
			p+m-Xylene	2022/04/13		95	%	70 - 130
			o-Xylene	2022/04/13		93	%	70 - 130
			F1 (C6-C10)	2022/04/13		95	%	60 - 140
7935483	XII	Method Blank	4-Bromofluorobenzene	2022/04/13		92	%	70 - 130
			D4-1,2-Dichloroethane	2022/04/13		96	%	70 - 130
			D8-Toluene	2022/04/13		95	%	70 - 130
			Acetone (2-Propanone)	2022/04/13	<10		ug/L	
			Benzene	2022/04/13	<0.17		ug/L	
			Bromodichloromethane	2022/04/13	<0.50		ug/L	
			Bromoform	2022/04/13	<1.0		ug/L	
			Bromomethane	2022/04/13	<0.50		ug/L	
			Carbon Tetrachloride	2022/04/13	<0.20		ug/L	
			Chlorobenzene	2022/04/13	<0.20		ug/L	
			Chloroform	2022/04/13	<0.20		ug/L	
			Dibromochloromethane	2022/04/13	<0.50		ug/L	



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BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			1,3-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			1,4-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2022/04/13	<1.0		ug/L	
			1,1-Dichloroethane	2022/04/13	<0.20		ug/L	
			1,2-Dichloroethane	2022/04/13	<0.50		ug/L	
			1,1-Dichloroethylene	2022/04/13	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2022/04/13	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2022/04/13	<0.50		ug/L	
			1,2-Dichloropropane	2022/04/13	<0.20		ug/L	
			cis-1,3-Dichloropropene	2022/04/13	<0.30		ug/L	
			trans-1,3-Dichloropropene	2022/04/13	<0.40		ug/L	
			Ethylbenzene	2022/04/13	<0.20		ug/L	
			Ethylene Dibromide	2022/04/13	<0.20		ug/L	
			Hexane	2022/04/13	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2022/04/13	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13	<10		ug/L	
			Methyl Isobutyl Ketone	2022/04/13	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2022/04/13	<0.50		ug/L	
			Styrene	2022/04/13	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2022/04/13	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2022/04/13	<0.50		ug/L	
			Tetrachloroethylene	2022/04/13	<0.20		ug/L	
			Toluene	2022/04/13	<0.20		ug/L	
			1,1,1-Trichloroethane	2022/04/13	<0.20		ug/L	
			1,1,2-Trichloroethane	2022/04/13	<0.50		ug/L	
			Trichloroethylene	2022/04/13	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2022/04/13	<0.50		ug/L	
			Vinyl Chloride	2022/04/13	<0.20		ug/L	
			p+m-Xylene	2022/04/13	<0.20		ug/L	
			o-Xylene	2022/04/13	<0.20		ug/L	
			Total Xylenes	2022/04/13	<0.20		ug/L	
			F1 (C6-C10)	2022/04/13	<25		ug/L	
			F1 (C6-C10) - BTEX	2022/04/13	<25		ug/L	
7935483	XJI	RPD	Acetone (2-Propanone)	2022/04/13	NC		%	30
			Benzene	2022/04/13	NC		%	30
			Bromodichloromethane	2022/04/13	NC		%	30
			Bromoform	2022/04/13	NC		%	30
			Bromomethane	2022/04/13	NC		%	30
			Carbon Tetrachloride	2022/04/13	NC		%	30
			Chlorobenzene	2022/04/13	NC		%	30
			Chloroform	2022/04/13	NC		%	30
			Dibromochloromethane	2022/04/13	NC		%	30
			1,2-Dichlorobenzene	2022/04/13	NC		%	30
			1,3-Dichlorobenzene	2022/04/13	NC		%	30
			1,4-Dichlorobenzene	2022/04/13	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2022/04/13	NC		%	30
			1,1-Dichloroethane	2022/04/13	NC		%	30
			1,2-Dichloroethane	2022/04/13	NC		%	30
			1,1-Dichloroethylene	2022/04/13	NC		%	30



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BLUEFROG ENVIRONMENTAL CONSULTING INC.
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Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,2-Dichloroethylene	2022/04/13	NC		%	30
			trans-1,2-Dichloroethylene	2022/04/13	NC		%	30
			1,2-Dichloropropane	2022/04/13	NC		%	30
			cis-1,3-Dichloropropene	2022/04/13	NC		%	30
			trans-1,3-Dichloropropene	2022/04/13	NC		%	30
			Ethylbenzene	2022/04/13	NC		%	30
			Ethylene Dibromide	2022/04/13	NC		%	30
			Hexane	2022/04/13	NC		%	30
			Methylene Chloride(Dichloromethane)	2022/04/13	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13	8.5		%	30
			Methyl Isobutyl Ketone	2022/04/13	NC		%	30
			Methyl t-butyl ether (MTBE)	2022/04/13	NC		%	30
			Styrene	2022/04/13	NC		%	30
			1,1,1,2-Tetrachloroethane	2022/04/13	NC		%	30
			1,1,2,2-Tetrachloroethane	2022/04/13	NC		%	30
			Tetrachloroethylene	2022/04/13	NC		%	30
			Toluene	2022/04/13	0		%	30
			1,1,1-Trichloroethane	2022/04/13	NC		%	30
			1,1,2-Trichloroethane	2022/04/13	NC		%	30
			Trichloroethylene	2022/04/13	NC		%	30
			Trichlorofluoromethane (FREON 11)	2022/04/13	NC		%	30
			Vinyl Chloride	2022/04/13	NC		%	30
			p+m-Xylene	2022/04/13	NC		%	30
			o-Xylene	2022/04/13	NC		%	30
			Total Xylenes	2022/04/13	NC		%	30
			F1 (C6-C10)	2022/04/13	NC		%	30
			F1 (C6-C10) - BTEX	2022/04/13	NC		%	30
7937833	ADA	Matrix Spike	Dissolved Antimony (Sb)	2022/04/18		108	%	80 - 120
			Dissolved Arsenic (As)	2022/04/18		102	%	80 - 120
			Dissolved Barium (Ba)	2022/04/18		106	%	80 - 120
			Dissolved Beryllium (Be)	2022/04/18		108	%	80 - 120
			Dissolved Boron (B)	2022/04/18		105	%	80 - 120
			Dissolved Cadmium (Cd)	2022/04/18		105	%	80 - 120
			Dissolved Chromium (Cr)	2022/04/18		96	%	80 - 120
			Dissolved Cobalt (Co)	2022/04/18		98	%	80 - 120
			Dissolved Copper (Cu)	2022/04/18		99	%	80 - 120
			Dissolved Lead (Pb)	2022/04/18		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/04/18		101	%	80 - 120
			Dissolved Nickel (Ni)	2022/04/18		95	%	80 - 120
			Dissolved Selenium (Se)	2022/04/18		102	%	80 - 120
			Dissolved Silver (Ag)	2022/04/18		100	%	80 - 120
			Dissolved Sodium (Na)	2022/04/18		100	%	80 - 120
			Dissolved Thallium (Tl)	2022/04/18		105	%	80 - 120
			Dissolved Uranium (U)	2022/04/18		98	%	80 - 120
			Dissolved Vanadium (V)	2022/04/18		98	%	80 - 120
			Dissolved Zinc (Zn)	2022/04/18		98	%	80 - 120
7937833	ADA	Spiked Blank	Dissolved Antimony (Sb)	2022/04/18		104	%	80 - 120
			Dissolved Arsenic (As)	2022/04/18		102	%	80 - 120
			Dissolved Barium (Ba)	2022/04/18		105	%	80 - 120
			Dissolved Beryllium (Be)	2022/04/18		105	%	80 - 120



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BLUEFROG ENVIRONMENTAL CONSULTING INC.
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7937833	ADA	Method Blank	Dissolved Boron (B)	2022/04/18		100	%	80 - 120
			Dissolved Cadmium (Cd)	2022/04/18		103	%	80 - 120
			Dissolved Chromium (Cr)	2022/04/18		95	%	80 - 120
			Dissolved Cobalt (Co)	2022/04/18		101	%	80 - 120
			Dissolved Copper (Cu)	2022/04/18		98	%	80 - 120
			Dissolved Lead (Pb)	2022/04/18		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/04/18		99	%	80 - 120
			Dissolved Nickel (Ni)	2022/04/18		97	%	80 - 120
			Dissolved Selenium (Se)	2022/04/18		102	%	80 - 120
			Dissolved Silver (Ag)	2022/04/18		98	%	80 - 120
			Dissolved Sodium (Na)	2022/04/18		97	%	80 - 120
			Dissolved Thallium (Tl)	2022/04/18		102	%	80 - 120
			Dissolved Uranium (U)	2022/04/18		100	%	80 - 120
			Dissolved Vanadium (V)	2022/04/18		98	%	80 - 120
			Dissolved Zinc (Zn)	2022/04/18		99	%	80 - 120
			Dissolved Antimony (Sb)	2022/04/18	<0.50		ug/L	
			Dissolved Arsenic (As)	2022/04/18	<1.0		ug/L	
			Dissolved Barium (Ba)	2022/04/18	<2.0		ug/L	
			Dissolved Beryllium (Be)	2022/04/18	<0.40		ug/L	
			Dissolved Boron (B)	2022/04/18	<10		ug/L	
7937833	ADA	RPD	Dissolved Cadmium (Cd)	2022/04/18	<0.090		ug/L	
			Dissolved Chromium (Cr)	2022/04/18	<5.0		ug/L	
			Dissolved Cobalt (Co)	2022/04/18	<0.50		ug/L	
			Dissolved Copper (Cu)	2022/04/18	<0.90		ug/L	
			Dissolved Lead (Pb)	2022/04/18	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2022/04/18	<0.50		ug/L	
			Dissolved Nickel (Ni)	2022/04/18	<1.0		ug/L	
			Dissolved Selenium (Se)	2022/04/18	<2.0		ug/L	
			Dissolved Silver (Ag)	2022/04/18	<0.090		ug/L	
			Dissolved Sodium (Na)	2022/04/18	<100		ug/L	
			Dissolved Thallium (Tl)	2022/04/18	<0.050		ug/L	
			Dissolved Uranium (U)	2022/04/18	<0.10		ug/L	
			Dissolved Vanadium (V)	2022/04/18	<0.50		ug/L	
7937833	ADA	RPD	Dissolved Zinc (Zn)	2022/04/18	<5.0		ug/L	
			Dissolved Chromium (Cr)	2022/04/18	NC		%	20
			Dissolved Cobalt (Co)	2022/04/18	NC		%	20
7940201	KTR	Matrix Spike	Dissolved Sodium (Na)	2022/04/18	4.6		%	20
			o-Terphenyl	2022/04/14		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/14		98	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/04/14		103	%	60 - 130
7940201	KTR	Spiked Blank	F4 (C34-C50 Hydrocarbons)	2022/04/14		106	%	60 - 130
			o-Terphenyl	2022/04/14		97	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/14		98	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/04/14		103	%	60 - 130
7940201	KTR	Method Blank	F4 (C34-C50 Hydrocarbons)	2022/04/14		104	%	60 - 130
			o-Terphenyl	2022/04/14		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/14	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2022/04/14	<200		ug/L	
7940201	KTR	RPD	F4 (C34-C50 Hydrocarbons)	2022/04/14	<200		ug/L	
			F2 (C10-C16 Hydrocarbons)	2022/04/14	NC		%	30



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BLUEFROG ENVIRONMENTAL CONSULTING INC.
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7942636	JP5	Matrix Spike	F3 (C16-C34 Hydrocarbons)	2022/04/14	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/04/14	NC		%	30
			1,4-Difluorobenzene	2022/04/14		94	%	70 - 130
			4-Bromofluorobenzene	2022/04/14		94	%	70 - 130
			D10-o-Xylene	2022/04/14		93	%	70 - 130
			D4-1,2-Dichloroethane	2022/04/14		93	%	70 - 130
			Benzene	2022/04/14		93	%	50 - 140
			Toluene	2022/04/14		95	%	50 - 140
			Ethylbenzene	2022/04/14		104	%	50 - 140
			o-Xylene	2022/04/14		97	%	50 - 140
			p+m-Xylene	2022/04/14		99	%	50 - 140
			F1 (C6-C10)	2022/04/14		90	%	60 - 140
7942636	JP5	Spiked Blank	1,4-Difluorobenzene	2022/04/14		96	%	70 - 130
			4-Bromofluorobenzene	2022/04/14		96	%	70 - 130
			D10-o-Xylene	2022/04/14		96	%	70 - 130
			D4-1,2-Dichloroethane	2022/04/14		91	%	70 - 130
			Benzene	2022/04/14		95	%	50 - 140
			Toluene	2022/04/14		97	%	50 - 140
			Ethylbenzene	2022/04/14		106	%	50 - 140
			o-Xylene	2022/04/14		98	%	50 - 140
			p+m-Xylene	2022/04/14		101	%	50 - 140
			F1 (C6-C10)	2022/04/14		90	%	60 - 140
7942636	JP5	Method Blank	1,4-Difluorobenzene	2022/04/14		116	%	70 - 130
			4-Bromofluorobenzene	2022/04/14		83	%	70 - 130
			D10-o-Xylene	2022/04/14		95	%	70 - 130
			D4-1,2-Dichloroethane	2022/04/14		109	%	70 - 130
			Benzene	2022/04/14	<0.20		ug/L	
			Toluene	2022/04/14	<0.20		ug/L	
			Ethylbenzene	2022/04/14	<0.20		ug/L	
			o-Xylene	2022/04/14	<0.20		ug/L	
			p+m-Xylene	2022/04/14	<0.40		ug/L	
			Total Xylenes	2022/04/14	<0.40		ug/L	
			F1 (C6-C10)	2022/04/14	<25		ug/L	
			F1 (C6-C10) - BTEX	2022/04/14	<25		ug/L	
7942636	JP5	RPD	Benzene	2022/04/14	NC		%	30
			Toluene	2022/04/14	NC		%	30
			Ethylbenzene	2022/04/14	NC		%	30
			o-Xylene	2022/04/14	NC		%	30
			p+m-Xylene	2022/04/14	NC		%	30
			Total Xylenes	2022/04/14	NC		%	30
			F1 (C6-C10)	2022/04/14	NC		%	30



BUREAU
VERITAS

Bureau Veritas Job #: C295780
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				F1 (C6-C10) - BTEX	2022/04/14	NC		%	30
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.									
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.									
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 (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).									



BUREAU
VERITAS

Bureau Veritas Job #: C295780

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas
6740 Campbell Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvna.com

11-Apr-22 18:58

Deepthi Shaji

C295780

Page 1 of 1

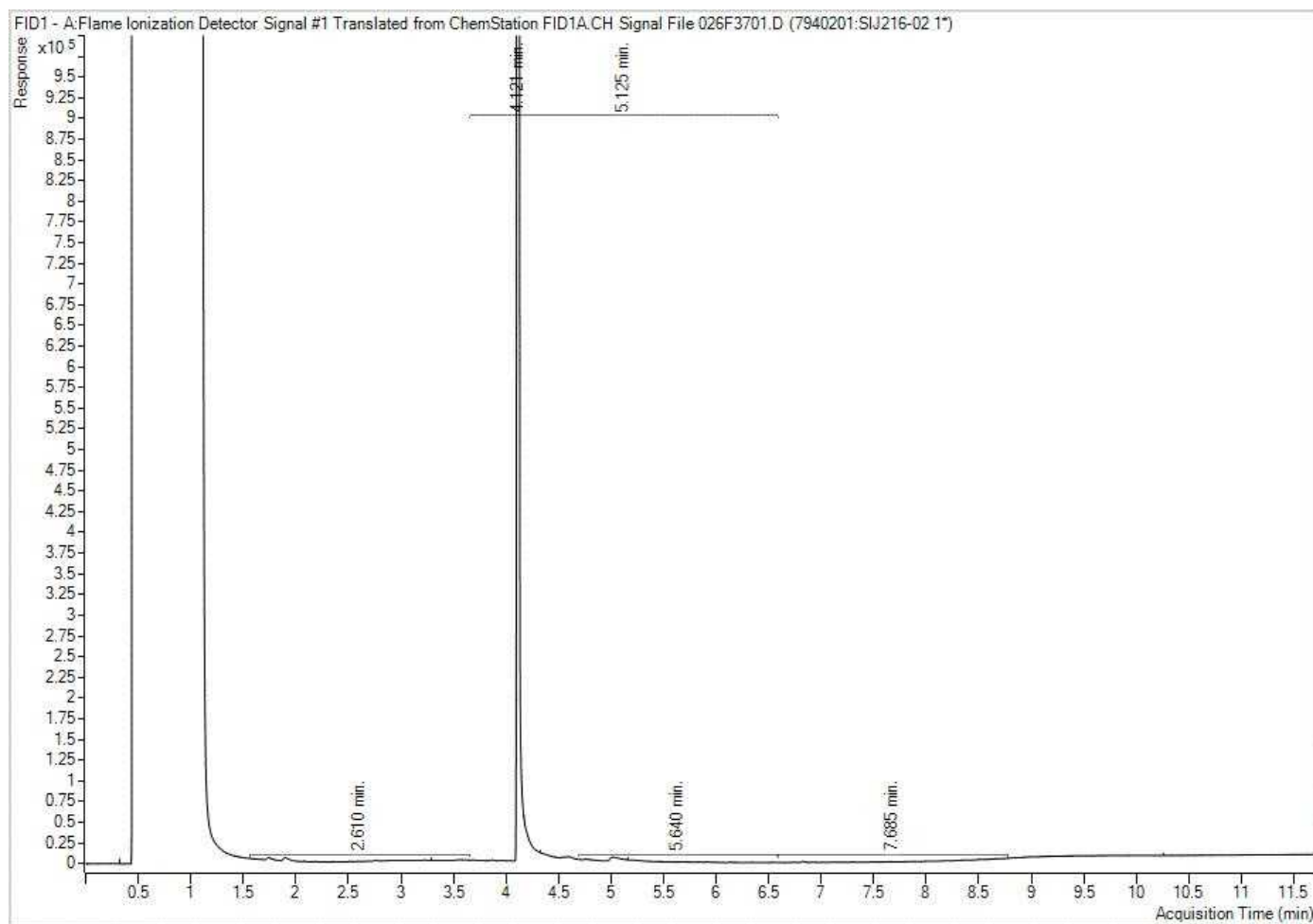
INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #34874-BLUEFROG-ENVIRONMENTAL CONSULTING	Company Name: Oshin Gharabegian	Quotation #: C20119	P.O. #: 0138-001.02		
Attention: Oshin Gharabegian	Attention: Oshin Gharabegian	Project: 0138-001.02	ATM ENV-936		
Address: SUITE 100-208 WYECROFT ROAD	Address:	Project Name: 1310 South Service Rd	COC #: 871758		
OAKVILLE ON L6K 3T8		Site #: CFM	Project Manager: Deepthi Shaji		
Tel: Fax:	Tel: Fax:	Sampled By:	C#871758-01-01		
Email: ogharabegian@bluefrogconsulting.ca	Email: ogharabegian@bluefrogconsulting.ca				

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects						
Regulation 153 (2011)			Other Regulations			Special Instructions			Field Filtered (please circle): Metals / Hg / Cr VI		O Reg 153 VOCs by HS & F1-F4 BTX		O Reg 153 Metals Package (Ind HG and Cr6)		Hamilton Sanitary & Storm Sewer (14-990)		O Reg 153 Metals (11/07)		O Reg 153 F1-F4		Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required: Rush Confirmation Number: (call lab for #)	
☐ Table 1 ☐ Table 2 ☐ Table 3 ☒ Table 4	☒ Res/Park ☐ Ind/Comm ☐ Agri/Other	☐ Medium/Fine ☒ Coarse ☐ For RSC	☐ CCME ☐ Reg 558 ☐ MISA ☐ PWQO ☐ Other	☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw ☐ Municipality ☐ Reg 406 Table																		
Include Criteria on Certificate of Analysis (Y/N)? <u>N</u>																						
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																		
1	MW21-8	2022 Apr 11	1335	A/W	✓	×					×										6	
2	BH401	"	1424	"	✓	×					×										6	
3	BH201	"	1525	"	✓	×					×										6	
4	DUP-1	"	1524	"	✓	×					×										5	tan
5	BH303	"	1314	"	✓	×					×										6	
6																						
7																						
8																						
9																						
10																						

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only		Custody Seal		Yes	No
[Signature]		22/04/11	1345	Kavitha Selvan		2022/04/11	15:50		Time Sensitive	Temperature (°C) on Receipt	Intact			
										10/11/19				
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.										SAMPLER MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS				
* 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.										White: Bureau Veritas Yellow: Client				
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.														

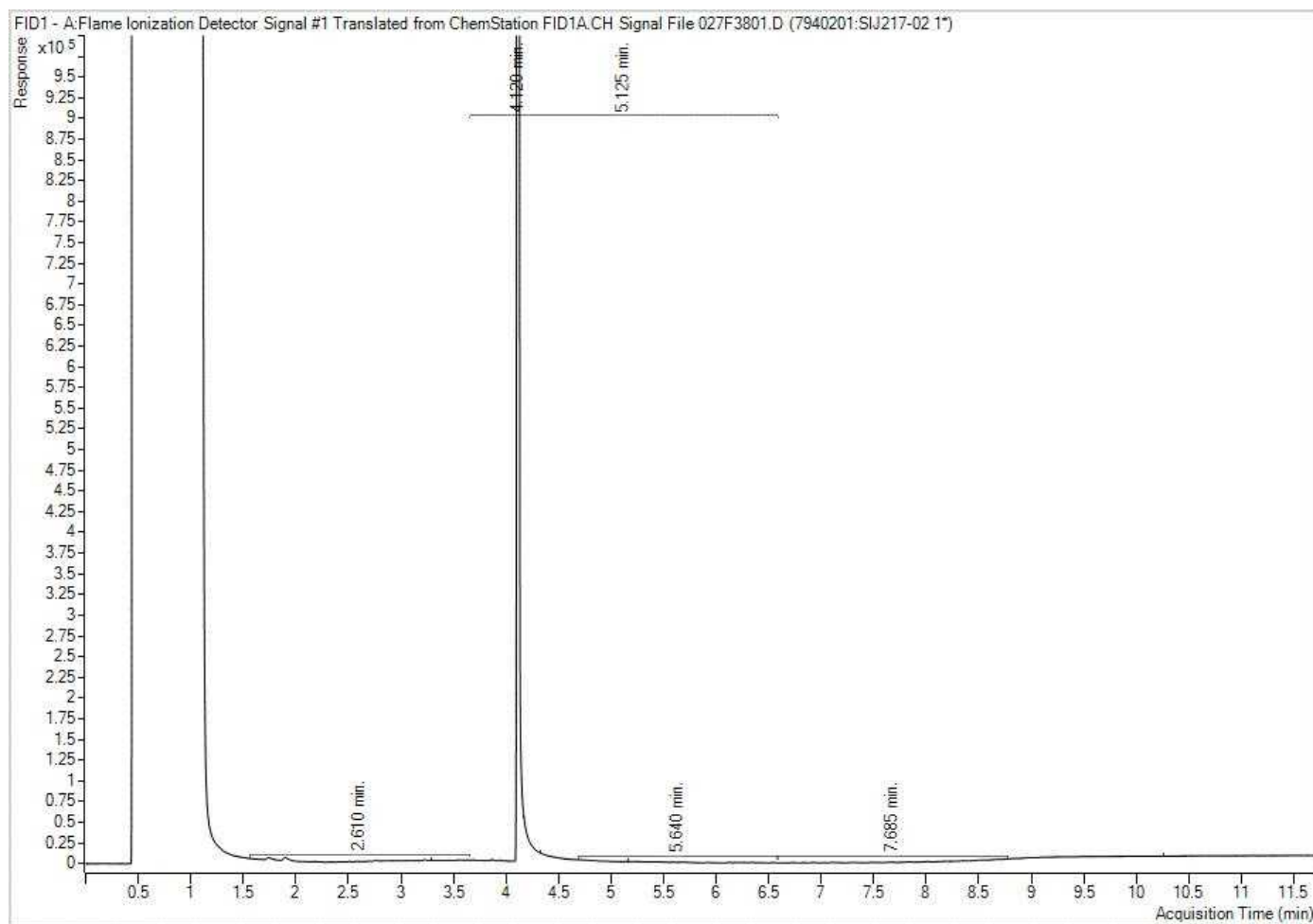
Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



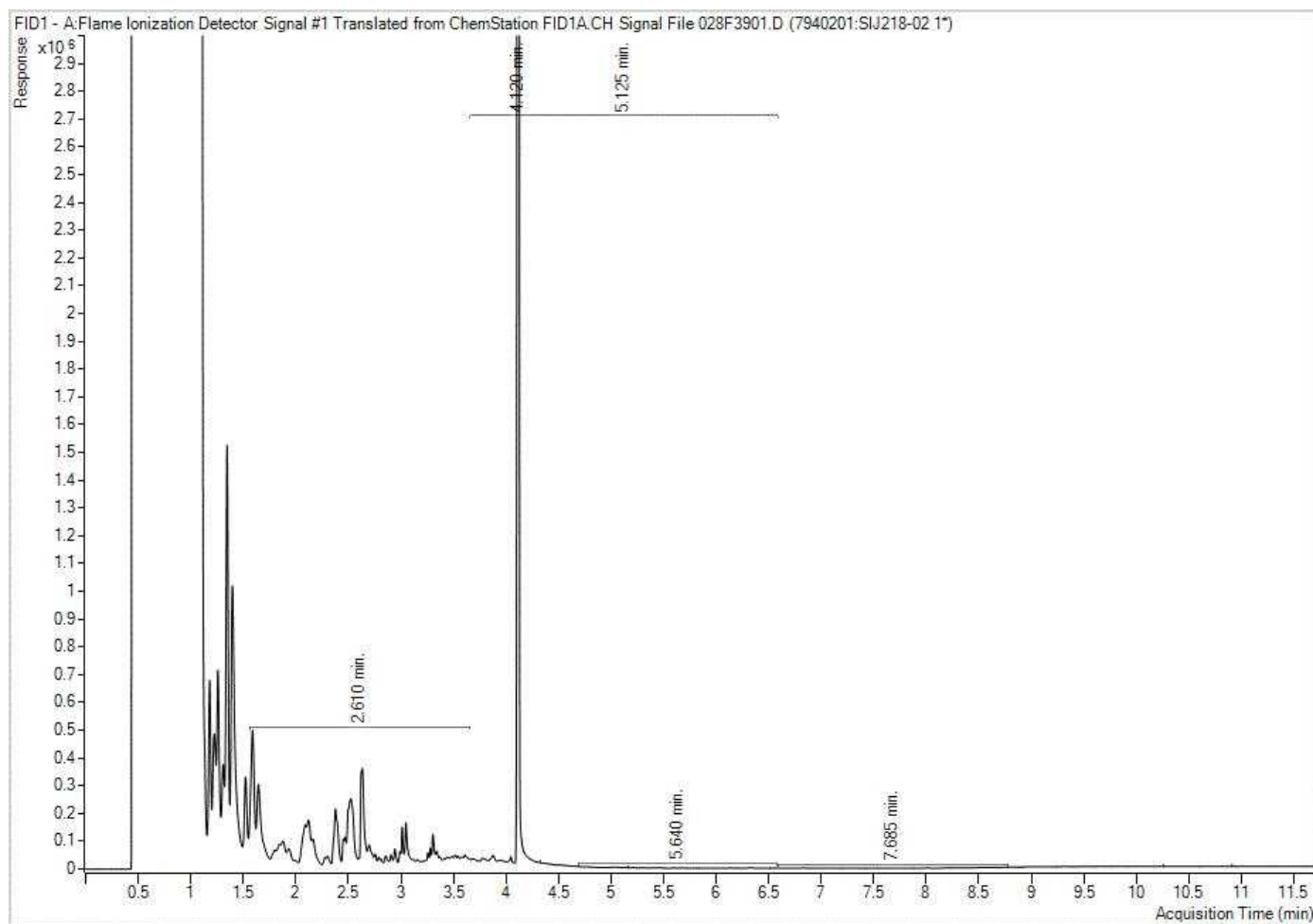
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



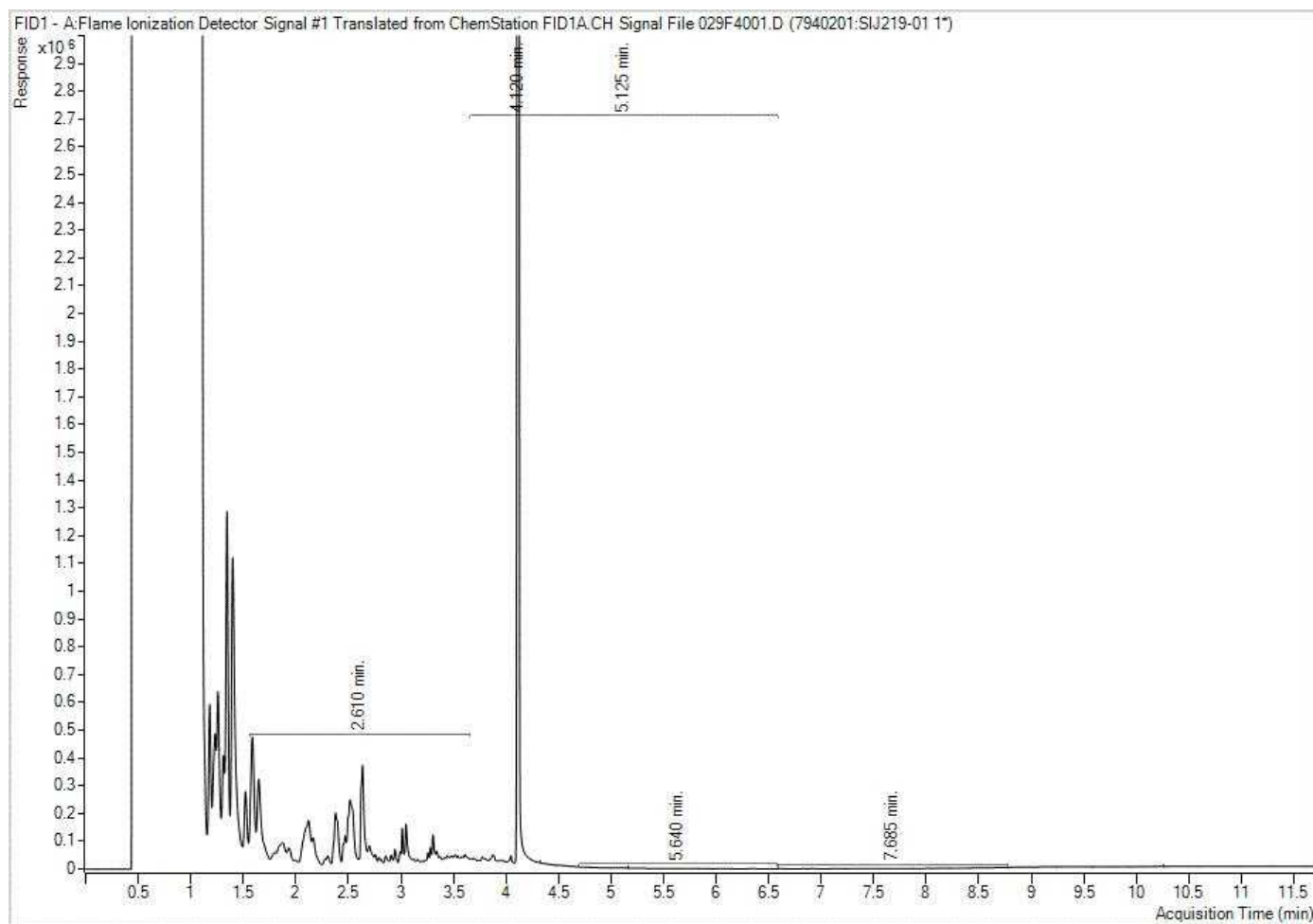
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



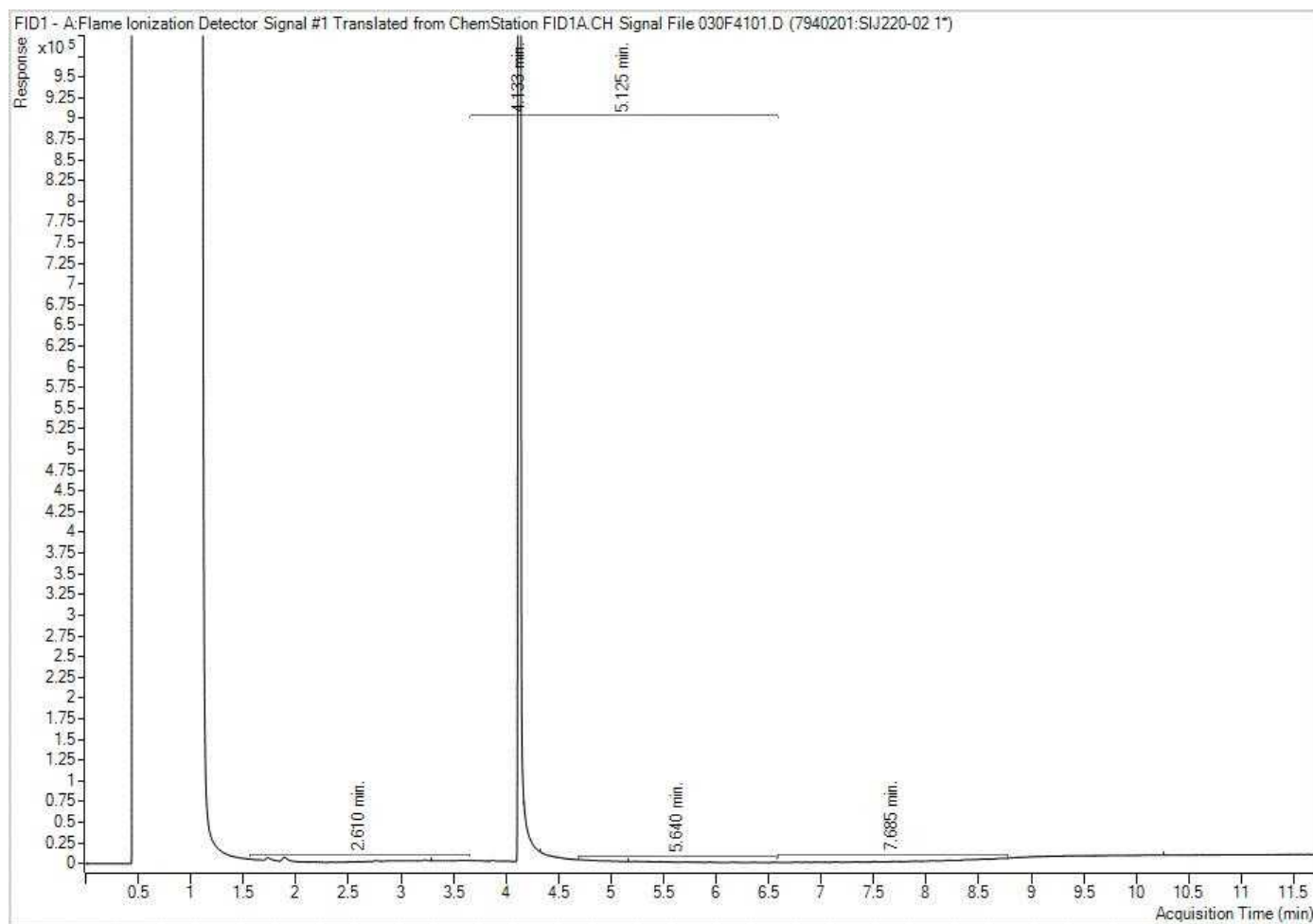
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your P.O. #: 0138-001.02
Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your C.O.C. #: 871758-02-01

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/04/18

Report #: R7089386

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C294362

Received: 2022/04/09, 08:27

Sample Matrix: Water
Samples Received: 3

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum	3	N/A	2022/04/12	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	3	N/A	2022/04/14		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	3	2022/04/11	2022/04/12	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	3	N/A	2022/04/14	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	2	2022/04/11	2022/04/11	CAM SOP-00318	EPA 8270D m
PAH Compounds in Water by GC/MS (SIM)	1	2022/04/11	2022/04/12	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	3	N/A	2022/04/13	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data



Your P.O. #: 0138-001.02
Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your C.O.C. #: 871758-02-01

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/04/18

Report #: R7089386

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C294362

Received: 2022/04/09, 08:27

reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key



Bureau Veritas

18 Apr 2022 10:06:39

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

Deepthi Shaji, Project Manager

Email: Deepthi.Shaji@bureauveritas.com

Phone# (905)817-5700 Ext:7065843

=====

This report has been generated and distributed using a secure automated process.

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For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 2

Page 2 of 26

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID		SIA208	SIA209	SIA210		
Sampling Date		2022/04/08 13:41	2022/04/08 13:00	2022/04/08 14:36		
COC Number		871758-02-01	871758-02-01	871758-02-01		
	UNITS	MW112	MW113	MW114	RDL	QC Batch
Metals						
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	7934209
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	1.0	7934209
Dissolved Barium (Ba)	ug/L	21	54	150	2.0	7934209
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	0.40	7934209
Dissolved Boron (B)	ug/L	47	110	130	10	7934209
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	0.090	7934209
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	5.0	7934209
Dissolved Cobalt (Co)	ug/L	1.1	1.2	1.6	0.50	7934209
Dissolved Copper (Cu)	ug/L	2.2	1.8	1.3	0.90	7934209
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	0.50	7934209
Dissolved Molybdenum (Mo)	ug/L	3.6	5.4	7.4	0.50	7934209
Dissolved Nickel (Ni)	ug/L	2.3	3.4	3.6	1.0	7934209
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	2.0	7934209
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	0.090	7934209
Dissolved Sodium (Na)	ug/L	53000	130000	170000	100	7934209
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.050	7934209
Dissolved Uranium (U)	ug/L	0.80	6.5	9.5	0.10	7934209
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	0.50	7934209
Dissolved Zinc (Zn)	ug/L	10	<5.0	<5.0	5.0	7934209
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 PAHS (WATER)

Bureau Veritas ID		SIA208	SIA209			SIA209		
Sampling Date		2022/04/08 13:41	2022/04/08 13:00			2022/04/08 13:00		
COC Number		871758-02-01	871758-02-01			871758-02-01		
	UNITS	MW112	MW113	RDL	QC Batch	MW113 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	7931705			
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Acenaphthylene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Anthracene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	7933974	<0.0090	0.0090	7933974
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Chrysene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Fluoranthene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Fluorene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Naphthalene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Phenanthrene	ug/L	<0.030	<0.030	0.030	7933974	<0.030	0.030	7933974
Pyrene	ug/L	<0.050	<0.050	0.050	7933974	<0.050	0.050	7933974
Surrogate Recovery (%)								
D10-Anthracene	%	87	97		7933974	92		7933974
D14-Terphenyl (FS)	%	91	97		7933974	85		7933974
D8-Acenaphthylene	%	89	99		7933974	92		7933974
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

O.REG 153 PAHS (WATER)

Bureau Veritas ID		SIA210		
Sampling Date		2022/04/08 14:36		
COC Number		871758-02-01		
	UNITS	MW114	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	7931705
Polyaromatic Hydrocarbons				
Acenaphthene	ug/L	<0.050	0.050	7933974
Acenaphthylene	ug/L	<0.050	0.050	7933974
Anthracene	ug/L	<0.050	0.050	7933974
Benzo(a)anthracene	ug/L	<0.050	0.050	7933974
Benzo(a)pyrene	ug/L	<0.0090	0.0090	7933974
Benzo(b,j)fluoranthene	ug/L	<0.050	0.050	7933974
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	7933974
Benzo(k)fluoranthene	ug/L	<0.050	0.050	7933974
Chrysene	ug/L	<0.050	0.050	7933974
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	7933974
Fluoranthene	ug/L	<0.050	0.050	7933974
Fluorene	ug/L	<0.050	0.050	7933974
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	7933974
1-Methylnaphthalene	ug/L	<0.050	0.050	7933974
2-Methylnaphthalene	ug/L	<0.050	0.050	7933974
Naphthalene	ug/L	<0.050	0.050	7933974
Phenanthrene	ug/L	0.11	0.030	7933974
Pyrene	ug/L	<0.050	0.050	7933974
Surrogate Recovery (%)				
D10-Anthracene	%	91		7933974
D14-Terphenyl (FS)	%	84		7933974
D8-Acenaphthylene	%	93		7933974
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIA208			SIA208			SIA209		
Sampling Date		2022/04/08 13:41			2022/04/08 13:41			2022/04/08 13:00		
COC Number		871758-02-01			871758-02-01			871758-02-01		
	UNITS	MW112	RDL	QC Batch	MW112 Lab-Dup	RDL	QC Batch	MW113	RDL	QC Batch

Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7931915				<0.50	0.50	7931915
Volatile Organics										
Acetone (2-Propanone)	ug/L	<10	10	7933318	<10	10	7933318	27	10	7933318
Benzene	ug/L	0.32	0.17	7933318	0.33	0.17	7933318	1.2	0.17	7933318
Bromodichloromethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Bromoform	ug/L	<1.0	1.0	7933318	<1.0	1.0	7933318	<1.0	1.0	7933318
Bromomethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Carbon Tetrachloride	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Chlorobenzene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Chloroform	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Dibromochloromethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7933318	<1.0	1.0	7933318	<1.0	1.0	7933318
1,1-Dichloroethane	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
1,2-Dichloroethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,1-Dichloroethylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,2-Dichloropropane	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7933318	<0.30	0.30	7933318	<0.30	0.30	7933318
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7933318	<0.40	0.40	7933318	<0.40	0.40	7933318
Ethylbenzene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Ethylene Dibromide	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Hexane	ug/L	<1.0	1.0	7933318	<1.0	1.0	7933318	<1.0	1.0	7933318
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7933318	<2.0	2.0	7933318	<2.0	2.0	7933318
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7933318	<10	10	7933318	<10	10	7933318
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7933318	<5.0	5.0	7933318	<5.0	5.0	7933318
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIA208			SIA208			SIA209		
Sampling Date		2022/04/08 13:41			2022/04/08 13:41			2022/04/08 13:00		
COC Number		871758-02-01			871758-02-01			871758-02-01		
	UNITS	MW112	RDL	QC Batch	MW112 Lab-Dup	RDL	QC Batch	MW113	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Styrene	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Tetrachloroethylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Toluene	ug/L	0.39	0.20	7933318	0.38	0.20	7933318	0.63	0.20	7933318
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Trichloroethylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7933318	<0.50	0.50	7933318	<0.50	0.50	7933318
Vinyl Chloride	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	<0.20	0.20	7933318
p+m-Xylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	0.56	0.20	7933318
o-Xylene	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	0.45	0.20	7933318
Total Xylenes	ug/L	<0.20	0.20	7933318	<0.20	0.20	7933318	1.0	0.20	7933318
F1 (C6-C10)	ug/L	<25	25	7933318	<25	25	7933318	<25	25	7933318
F1 (C6-C10) - BTEX	ug/L	<25	25	7933318	<25	25	7933318	<25	25	7933318
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7933993				<100	100	7933993
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7933993				<200	200	7933993
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7933993				<200	200	7933993
Reached Baseline at C50	ug/L	Yes		7933993				Yes		7933993
Surrogate Recovery (%)										
o-Terphenyl	%	95		7933993				95		7933993
4-Bromofluorobenzene	%	91		7933318	91		7933318	90		7933318
D4-1,2-Dichloroethane	%	104		7933318	104		7933318	102		7933318
D8-Toluene	%	93		7933318	92		7933318	92		7933318
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIA209			SIA210		
Sampling Date		2022/04/08 13:00			2022/04/08 14:36		
COC Number		871758-02-01			871758-02-01		
	UNITS	MW113 Lab-Dup	RDL	QC Batch	MW114	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L				<0.50	0.50	79331915
Volatile Organics							
Acetone (2-Propanone)	ug/L				20	10	7933318
Benzene	ug/L				<0.17	0.17	7933318
Bromodichloromethane	ug/L				<0.50	0.50	7933318
Bromoform	ug/L				<1.0	1.0	7933318
Bromomethane	ug/L				<0.50	0.50	7933318
Carbon Tetrachloride	ug/L				<0.20	0.20	7933318
Chlorobenzene	ug/L				<0.20	0.20	7933318
Chloroform	ug/L				<0.20	0.20	7933318
Dibromochloromethane	ug/L				<0.50	0.50	7933318
1,2-Dichlorobenzene	ug/L				<0.50	0.50	7933318
1,3-Dichlorobenzene	ug/L				<0.50	0.50	7933318
1,4-Dichlorobenzene	ug/L				<0.50	0.50	7933318
Dichlorodifluoromethane (FREON 12)	ug/L				<1.0	1.0	7933318
1,1-Dichloroethane	ug/L				<0.20	0.20	7933318
1,2-Dichloroethane	ug/L				<0.50	0.50	7933318
1,1-Dichloroethylene	ug/L				<0.20	0.20	7933318
cis-1,2-Dichloroethylene	ug/L				<0.50	0.50	7933318
trans-1,2-Dichloroethylene	ug/L				<0.50	0.50	7933318
1,2-Dichloropropane	ug/L				<0.20	0.20	7933318
cis-1,3-Dichloropropene	ug/L				<0.30	0.30	7933318
trans-1,3-Dichloropropene	ug/L				<0.40	0.40	7933318
Ethylbenzene	ug/L				<0.20	0.20	7933318
Ethylene Dibromide	ug/L				<0.20	0.20	7933318
Hexane	ug/L				<1.0	1.0	7933318
Methylene Chloride(Dichloromethane)	ug/L				<2.0	2.0	7933318
Methyl Ethyl Ketone (2-Butanone)	ug/L				<10	10	7933318
Methyl Isobutyl Ketone	ug/L				<5.0	5.0	7933318
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SIA209			SIA210		
Sampling Date		2022/04/08 13:00			2022/04/08 14:36		
COC Number		871758-02-01			871758-02-01		
	UNITS	MW113 Lab-Dup	RDL	QC Batch	MW114	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L				<0.50	0.50	7933318
Styrene	ug/L				<0.50	0.50	7933318
1,1,1,2-Tetrachloroethane	ug/L				<0.50	0.50	7933318
1,1,2,2-Tetrachloroethane	ug/L				<0.50	0.50	7933318
Tetrachloroethylene	ug/L				<0.20	0.20	7933318
Toluene	ug/L				<0.20	0.20	7933318
1,1,1-Trichloroethane	ug/L				<0.20	0.20	7933318
1,1,2-Trichloroethane	ug/L				<0.50	0.50	7933318
Trichloroethylene	ug/L				<0.20	0.20	7933318
Trichlorofluoromethane (FREON 11)	ug/L				<0.50	0.50	7933318
Vinyl Chloride	ug/L				<0.20	0.20	7933318
p+m-Xylene	ug/L				<0.20	0.20	7933318
o-Xylene	ug/L				<0.20	0.20	7933318
Total Xylenes	ug/L				<0.20	0.20	7933318
F1 (C6-C10)	ug/L				<25	25	7933318
F1 (C6-C10) - BTEX	ug/L				<25	25	7933318
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7933993	<100	100	7933993
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7933993	240	200	7933993
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7933993	<200	200	7933993
Reached Baseline at C50	ug/L	Yes		7933993	Yes		7933993
Surrogate Recovery (%)							
o-Terphenyl	%	86		7933993	93		7933993
4-Bromofluorobenzene	%				91		7933318
D4-1,2-Dichloroethane	%				104		7933318
D8-Toluene	%				92		7933318
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							



**BUREAU
VERITAS**

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

TEST SUMMARY

Bureau Veritas ID: SIA208
Sample ID: MW112
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7931705	N/A	2022/04/12	Automated Statchk
1,3-Dichloropropene Sum	CALC	7931915	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7933993	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7934209	N/A	2022/04/14	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7933974	2022/04/11	2022/04/11	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7933318	N/A	2022/04/13	Anna Gabrielyan

Bureau Veritas ID: SIA208 Dup
Sample ID: MW112
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7933318	N/A	2022/04/13	Anna Gabrielyan

Bureau Veritas ID: SIA209
Sample ID: MW113
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7931705	N/A	2022/04/12	Automated Statchk
1,3-Dichloropropene Sum	CALC	7931915	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7933993	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7934209	N/A	2022/04/14	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7933974	2022/04/11	2022/04/11	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7933318	N/A	2022/04/13	Anna Gabrielyan

Bureau Veritas ID: SIA209 Dup
Sample ID: MW113
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7933993	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7933974	2022/04/11	2022/04/11	Mitesh Raj

Bureau Veritas ID: SIA210
Sample ID: MW114
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7931705	N/A	2022/04/12	Automated Statchk
1,3-Dichloropropene Sum	CALC	7931915	N/A	2022/04/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7933993	2022/04/11	2022/04/12	Agnieszka Brzuzy-Snopko
Dissolved Metals by ICPMS	ICP/MS	7934209	N/A	2022/04/14	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7933974	2022/04/11	2022/04/12	Mitesh Raj



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

TEST SUMMARY

Bureau Veritas ID: SIA210
Sample ID: MW114
Matrix: Water

Collected: 2022/04/08
Shipped:
Received: 2022/04/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7933318	N/A	2022/04/13	Anna Gabrielyan



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.7°C
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Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7933318	AYA	Matrix Spike [SIA208-03]	4-Bromofluorobenzene	2022/04/13		102	%	70 - 130
			D4-1,2-Dichloroethane	2022/04/13		98	%	70 - 130
			D8-Toluene	2022/04/13		103	%	70 - 130
			Acetone (2-Propanone)	2022/04/13		109	%	60 - 140
			Benzene	2022/04/13		89	%	70 - 130
			Bromodichloromethane	2022/04/13		98	%	70 - 130
			Bromoform	2022/04/13		95	%	70 - 130
			Bromomethane	2022/04/13		99	%	60 - 140
			Carbon Tetrachloride	2022/04/13		92	%	70 - 130
			Chlorobenzene	2022/04/13		96	%	70 - 130
			Chloroform	2022/04/13		94	%	70 - 130
			Dibromochloromethane	2022/04/13		93	%	70 - 130
			1,2-Dichlorobenzene	2022/04/13		96	%	70 - 130
			1,3-Dichlorobenzene	2022/04/13		97	%	70 - 130
			1,4-Dichlorobenzene	2022/04/13		114	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/04/13		89	%	60 - 140
			1,1-Dichloroethane	2022/04/13		91	%	70 - 130
			1,2-Dichloroethane	2022/04/13		91	%	70 - 130
			1,1-Dichloroethylene	2022/04/13		92	%	70 - 130
			cis-1,2-Dichloroethylene	2022/04/13		95	%	70 - 130
			trans-1,2-Dichloroethylene	2022/04/13		94	%	70 - 130
			1,2-Dichloropropane	2022/04/13		94	%	70 - 130
			cis-1,3-Dichloropropene	2022/04/13		94	%	70 - 130
			trans-1,3-Dichloropropene	2022/04/13		102	%	70 - 130
			Ethylbenzene	2022/04/13		90	%	70 - 130
			Ethylene Dibromide	2022/04/13		93	%	70 - 130
			Hexane	2022/04/13		95	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/04/13		94	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13		116	%	60 - 140
			Methyl Isobutyl Ketone	2022/04/13		106	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/04/13		89	%	70 - 130
			Styrene	2022/04/13		105	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/04/13		96	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/04/13		94	%	70 - 130
			Tetrachloroethylene	2022/04/13		88	%	70 - 130
			Toluene	2022/04/13		94	%	70 - 130
			1,1,1-Trichloroethane	2022/04/13		95	%	70 - 130
			1,1,2-Trichloroethane	2022/04/13		99	%	70 - 130
			Trichloroethylene	2022/04/13		99	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/04/13		97	%	70 - 130
			Vinyl Chloride	2022/04/13		97	%	70 - 130
			p+m-Xylene	2022/04/13		96	%	70 - 130
			o-Xylene	2022/04/13		93	%	70 - 130
			F1 (C6-C10)	2022/04/13		95	%	60 - 140
7933318	AYA	Spiked Blank	4-Bromofluorobenzene	2022/04/13		102	%	70 - 130
			D4-1,2-Dichloroethane	2022/04/13		100	%	70 - 130
			D8-Toluene	2022/04/13		104	%	70 - 130
			Acetone (2-Propanone)	2022/04/13		111	%	60 - 140
			Benzene	2022/04/13		90	%	70 - 130
			Bromodichloromethane	2022/04/13		100	%	70 - 130



BUREAU
VERITAS

Bureau Veritas Job #: C294362
Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7933318	AYA	Method Blank	Bromoform	2022/04/13		96	%	70 - 130
			Bromomethane	2022/04/13		105	%	60 - 140
			Carbon Tetrachloride	2022/04/13		93	%	70 - 130
			Chlorobenzene	2022/04/13		97	%	70 - 130
			Chloroform	2022/04/13		96	%	70 - 130
			Dibromochloromethane	2022/04/13		95	%	70 - 130
			1,2-Dichlorobenzene	2022/04/13		97	%	70 - 130
			1,3-Dichlorobenzene	2022/04/13		98	%	70 - 130
			1,4-Dichlorobenzene	2022/04/13		115	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/04/13		93	%	60 - 140
			1,1-Dichloroethane	2022/04/13		92	%	70 - 130
			1,2-Dichloroethane	2022/04/13		93	%	70 - 130
			1,1-Dichloroethylene	2022/04/13		93	%	70 - 130
			cis-1,2-Dichloroethylene	2022/04/13		97	%	70 - 130
			trans-1,2-Dichloroethylene	2022/04/13		95	%	70 - 130
			1,2-Dichloropropane	2022/04/13		96	%	70 - 130
			cis-1,3-Dichloropropene	2022/04/13		102	%	70 - 130
			trans-1,3-Dichloropropene	2022/04/13		112	%	70 - 130
			Ethylbenzene	2022/04/13		91	%	70 - 130
			Ethylene Dibromide	2022/04/13		95	%	70 - 130
			Hexane	2022/04/13		96	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/04/13		96	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13		119	%	60 - 140
			Methyl Isobutyl Ketone	2022/04/13		110	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/04/13		90	%	70 - 130
			Styrene	2022/04/13		107	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/04/13		97	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/04/13		96	%	70 - 130
			Tetrachloroethylene	2022/04/13		89	%	70 - 130
			Toluene	2022/04/13		95	%	70 - 130
			1,1,1-Trichloroethane	2022/04/13		97	%	70 - 130
			1,1,2-Trichloroethane	2022/04/13		100	%	70 - 130
			Trichloroethylene	2022/04/13		100	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/04/13		99	%	70 - 130
			Vinyl Chloride	2022/04/13		100	%	70 - 130
			p+m-Xylene	2022/04/13		96	%	70 - 130
			o-Xylene	2022/04/13		94	%	70 - 130
			F1 (C6-C10)	2022/04/13		97	%	60 - 140
			4-Bromofluorobenzene	2022/04/13		91	%	70 - 130
			D4-1,2-Dichloroethane	2022/04/13		100	%	70 - 130
			D8-Toluene	2022/04/13		93	%	70 - 130
			Acetone (2-Propanone)	2022/04/13	<10		ug/L	
			Benzene	2022/04/13	<0.17		ug/L	
			Bromodichloromethane	2022/04/13	<0.50		ug/L	
			Bromoform	2022/04/13	<1.0		ug/L	
			Bromomethane	2022/04/13	<0.50		ug/L	
			Carbon Tetrachloride	2022/04/13	<0.20		ug/L	
			Chlorobenzene	2022/04/13	<0.20		ug/L	
			Chloroform	2022/04/13	<0.20		ug/L	
			Dibromochloromethane	2022/04/13	<0.50		ug/L	



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Bureau Veritas Job #: C294362
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BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			1,3-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			1,4-Dichlorobenzene	2022/04/13	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2022/04/13	<1.0		ug/L	
			1,1-Dichloroethane	2022/04/13	<0.20		ug/L	
			1,2-Dichloroethane	2022/04/13	<0.50		ug/L	
			1,1-Dichloroethylene	2022/04/13	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2022/04/13	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2022/04/13	<0.50		ug/L	
			1,2-Dichloropropane	2022/04/13	<0.20		ug/L	
			cis-1,3-Dichloropropene	2022/04/13	<0.30		ug/L	
			trans-1,3-Dichloropropene	2022/04/13	<0.40		ug/L	
			Ethylbenzene	2022/04/13	<0.20		ug/L	
			Ethylene Dibromide	2022/04/13	<0.20		ug/L	
			Hexane	2022/04/13	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2022/04/13	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13	<10		ug/L	
			Methyl Isobutyl Ketone	2022/04/13	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2022/04/13	<0.50		ug/L	
			Styrene	2022/04/13	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2022/04/13	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2022/04/13	<0.50		ug/L	
			Tetrachloroethylene	2022/04/13	<0.20		ug/L	
			Toluene	2022/04/13	<0.20		ug/L	
			1,1,1-Trichloroethane	2022/04/13	<0.20		ug/L	
			1,1,2-Trichloroethane	2022/04/13	<0.50		ug/L	
			Trichloroethylene	2022/04/13	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2022/04/13	<0.50		ug/L	
			Vinyl Chloride	2022/04/13	<0.20		ug/L	
			p+m-Xylene	2022/04/13	<0.20		ug/L	
			o-Xylene	2022/04/13	<0.20		ug/L	
			Total Xylenes	2022/04/13	<0.20		ug/L	
			F1 (C6-C10)	2022/04/13	<25		ug/L	
			F1 (C6-C10) - BTEX	2022/04/13	<25		ug/L	
7933318	AYA	RPD [SIA208-03]	Acetone (2-Propanone)	2022/04/13	NC		%	30
			Benzene	2022/04/13	2.7		%	30
			Bromodichloromethane	2022/04/13	NC		%	30
			Bromoform	2022/04/13	NC		%	30
			Bromomethane	2022/04/13	NC		%	30
			Carbon Tetrachloride	2022/04/13	NC		%	30
			Chlorobenzene	2022/04/13	NC		%	30
			Chloroform	2022/04/13	NC		%	30
			Dibromochloromethane	2022/04/13	NC		%	30
			1,2-Dichlorobenzene	2022/04/13	NC		%	30
			1,3-Dichlorobenzene	2022/04/13	NC		%	30
			1,4-Dichlorobenzene	2022/04/13	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2022/04/13	NC		%	30
			1,1-Dichloroethane	2022/04/13	NC		%	30
			1,2-Dichloroethane	2022/04/13	NC		%	30
			1,1-Dichloroethylene	2022/04/13	NC		%	30



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BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,2-Dichloroethylene	2022/04/13	NC		%	30
			trans-1,2-Dichloroethylene	2022/04/13	NC		%	30
			1,2-Dichloropropane	2022/04/13	NC		%	30
			cis-1,3-Dichloropropene	2022/04/13	NC		%	30
			trans-1,3-Dichloropropene	2022/04/13	NC		%	30
			Ethylbenzene	2022/04/13	NC		%	30
			Ethylene Dibromide	2022/04/13	NC		%	30
			Hexane	2022/04/13	NC		%	30
			Methylene Chloride(Dichloromethane)	2022/04/13	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2022/04/13	NC		%	30
			Methyl Isobutyl Ketone	2022/04/13	NC		%	30
			Methyl t-butyl ether (MTBE)	2022/04/13	NC		%	30
			Styrene	2022/04/13	NC		%	30
			1,1,1,2-Tetrachloroethane	2022/04/13	NC		%	30
			1,1,2,2-Tetrachloroethane	2022/04/13	NC		%	30
			Tetrachloroethylene	2022/04/13	NC		%	30
			Toluene	2022/04/13	0.52		%	30
			1,1,1-Trichloroethane	2022/04/13	NC		%	30
			1,1,2-Trichloroethane	2022/04/13	NC		%	30
			Trichloroethylene	2022/04/13	NC		%	30
			Trichlorofluoromethane (FREON 11)	2022/04/13	NC		%	30
			Vinyl Chloride	2022/04/13	NC		%	30
			p+m-Xylene	2022/04/13	NC		%	30
			o-Xylene	2022/04/13	NC		%	30
			Total Xylenes	2022/04/13	NC		%	30
			F1 (C6-C10)	2022/04/13	NC		%	30
			F1 (C6-C10) - BTEX	2022/04/13	NC		%	30
7933974	RAJ	Matrix Spike [SIA208-02]	D10-Anthracene	2022/04/11		94	%	50 - 130
			D14-Terphenyl (FS)	2022/04/11		99	%	50 - 130
			D8-Acenaphthylene	2022/04/11		94	%	50 - 130
			Acenaphthene	2022/04/11		110	%	50 - 130
			Acenaphthylene	2022/04/11		106	%	50 - 130
			Anthracene	2022/04/11		101	%	50 - 130
			Benzo(a)anthracene	2022/04/11		92	%	50 - 130
			Benzo(a)pyrene	2022/04/11		84	%	50 - 130
			Benzo(b/j)fluoranthene	2022/04/11		83	%	50 - 130
			Benzo(g,h,i)perylene	2022/04/11		82	%	50 - 130
			Benzo(k)fluoranthene	2022/04/11		85	%	50 - 130
			Chrysene	2022/04/11		86	%	50 - 130
			Dibenzo(a,h)anthracene	2022/04/11		80	%	50 - 130
			Fluoranthene	2022/04/11		115	%	50 - 130
			Fluorene	2022/04/11		106	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/04/11		84	%	50 - 130
			1-Methylnaphthalene	2022/04/11		117	%	50 - 130
			2-Methylnaphthalene	2022/04/11		106	%	50 - 130
			Naphthalene	2022/04/11		101	%	50 - 130
			Phenanthrene	2022/04/11		105	%	50 - 130
			Pyrene	2022/04/11		111	%	50 - 130
7933974	RAJ	Spiked Blank	D10-Anthracene	2022/04/11		101	%	50 - 130
			D14-Terphenyl (FS)	2022/04/11		108	%	50 - 130



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BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7933974	RAJ	Method Blank	D8-Acenaphthylene	2022/04/11		99	%	50 - 130
			Acenaphthene	2022/04/11		105	%	50 - 130
			Acenaphthylene	2022/04/11		99	%	50 - 130
			Anthracene	2022/04/11		101	%	50 - 130
			Benzo(a)anthracene	2022/04/11		107	%	50 - 130
			Benzo(a)pyrene	2022/04/11		105	%	50 - 130
			Benzo(b/j)fluoranthene	2022/04/11		104	%	50 - 130
			Benzo(g,h,i)perylene	2022/04/11		107	%	50 - 130
			Benzo(k)fluoranthene	2022/04/11		107	%	50 - 130
			Chrysene	2022/04/11		106	%	50 - 130
			Dibenzo(a,h)anthracene	2022/04/11		104	%	50 - 130
			Fluoranthene	2022/04/11		115	%	50 - 130
			Fluorene	2022/04/11		101	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/04/11		109	%	50 - 130
			1-Methylnaphthalene	2022/04/11		105	%	50 - 130
			2-Methylnaphthalene	2022/04/11		96	%	50 - 130
			Naphthalene	2022/04/11		84	%	50 - 130
			Phenanthrene	2022/04/11		103	%	50 - 130
			Pyrene	2022/04/11		112	%	50 - 130
			D10-Anthracene	2022/04/11		90	%	50 - 130
			D14-Terphenyl (FS)	2022/04/11		96	%	50 - 130
			D8-Acenaphthylene	2022/04/11		91	%	50 - 130
			Acenaphthene	2022/04/11	<0.050		ug/L	
			Acenaphthylene	2022/04/11	<0.050		ug/L	
			Anthracene	2022/04/11	<0.050		ug/L	
			Benzo(a)anthracene	2022/04/11	<0.050		ug/L	
			Benzo(a)pyrene	2022/04/11	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2022/04/11	<0.050		ug/L	
			Benzo(g,h,i)perylene	2022/04/11	<0.050		ug/L	
			Benzo(k)fluoranthene	2022/04/11	<0.050		ug/L	
			Chrysene	2022/04/11	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2022/04/11	<0.050		ug/L	
			Fluoranthene	2022/04/11	<0.050		ug/L	
			Fluorene	2022/04/11	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2022/04/11	<0.050		ug/L	
			1-Methylnaphthalene	2022/04/11	<0.050		ug/L	
			2-Methylnaphthalene	2022/04/11	<0.050		ug/L	
			Naphthalene	2022/04/11	<0.050		ug/L	
			Phenanthrene	2022/04/11	<0.030		ug/L	
			Pyrene	2022/04/11	<0.050		ug/L	
7933974	RAJ	RPD [SIA209-02]	Acenaphthene	2022/04/11	NC		%	30
			Acenaphthylene	2022/04/11	NC		%	30
			Anthracene	2022/04/11	NC		%	30
			Benzo(a)anthracene	2022/04/11	NC		%	30
			Benzo(a)pyrene	2022/04/11	NC		%	30
			Benzo(b/j)fluoranthene	2022/04/11	NC		%	30
			Benzo(g,h,i)perylene	2022/04/11	NC		%	30
			Benzo(k)fluoranthene	2022/04/11	NC		%	30
			Chrysene	2022/04/11	NC		%	30
			Dibenzo(a,h)anthracene	2022/04/11	NC		%	30



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Bureau Veritas Job #: C294362
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BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE ROAD
Your P.O. #: 0138-001.02
Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7933993	ABS	Matrix Spike [SIA210-02]	Fluoranthene	2022/04/11	NC		%	30
			Fluorene	2022/04/11	NC		%	30
			Indeno(1,2,3-cd)pyrene	2022/04/11	NC		%	30
			1-Methylnaphthalene	2022/04/11	NC		%	30
			2-Methylnaphthalene	2022/04/11	NC		%	30
			Naphthalene	2022/04/11	NC		%	30
			Phenanthrene	2022/04/11	NC		%	30
			Pyrene	2022/04/11	NC		%	30
			o-Terphenyl	2022/04/11		101	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11		97	%	60 - 130
7933993	ABS	Spiked Blank	F3 (C16-C34 Hydrocarbons)	2022/04/11		NC	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/04/11		92	%	60 - 130
			o-Terphenyl	2022/04/11		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11		105	%	60 - 130
7933993	ABS	Method Blank	F3 (C16-C34 Hydrocarbons)	2022/04/11		105	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/04/11		101	%	60 - 130
			o-Terphenyl	2022/04/11		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/04/11	<100		ug/L	
7933993	ABS	RPD [SIA209-02]	F3 (C16-C34 Hydrocarbons)	2022/04/11	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2022/04/11	<200		ug/L	
			F2 (C10-C16 Hydrocarbons)	2022/04/12	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/04/12	NC		%	30
7934209	N_R	Matrix Spike	F4 (C34-C50 Hydrocarbons)	2022/04/12	NC		%	30
			Dissolved Antimony (Sb)	2022/04/14		105	%	80 - 120
			Dissolved Arsenic (As)	2022/04/14		100	%	80 - 120
			Dissolved Barium (Ba)	2022/04/14		101	%	80 - 120
			Dissolved Beryllium (Be)	2022/04/14		109	%	80 - 120
			Dissolved Boron (B)	2022/04/14		101	%	80 - 120
			Dissolved Cadmium (Cd)	2022/04/14		100	%	80 - 120
			Dissolved Chromium (Cr)	2022/04/14		96	%	80 - 120
			Dissolved Cobalt (Co)	2022/04/14		97	%	80 - 120
			Dissolved Copper (Cu)	2022/04/14		99	%	80 - 120
			Dissolved Lead (Pb)	2022/04/14		93	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/04/14		107	%	80 - 120
			Dissolved Nickel (Ni)	2022/04/14		93	%	80 - 120
			Dissolved Selenium (Se)	2022/04/14		99	%	80 - 120
			Dissolved Silver (Ag)	2022/04/14		94	%	80 - 120
			Dissolved Sodium (Na)	2022/04/14		NC	%	80 - 120
			Dissolved Thallium (Tl)	2022/04/14		94	%	80 - 120
			Dissolved Uranium (U)	2022/04/14		96	%	80 - 120
			Dissolved Vanadium (V)	2022/04/14		98	%	80 - 120
			Dissolved Zinc (Zn)	2022/04/14		94	%	80 - 120
7934209	N_R	Spiked Blank	Dissolved Antimony (Sb)	2022/04/14		99	%	80 - 120
			Dissolved Arsenic (As)	2022/04/14		99	%	80 - 120
			Dissolved Barium (Ba)	2022/04/14		101	%	80 - 120
			Dissolved Beryllium (Be)	2022/04/14		103	%	80 - 120
			Dissolved Boron (B)	2022/04/14		101	%	80 - 120
			Dissolved Cadmium (Cd)	2022/04/14		97	%	80 - 120
			Dissolved Chromium (Cr)	2022/04/14		96	%	80 - 120
			Dissolved Cobalt (Co)	2022/04/14		99	%	80 - 120



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BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7934209	N_R	Method Blank	Dissolved Copper (Cu)	2022/04/14		98	%	80 - 120
			Dissolved Lead (Pb)	2022/04/14		97	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/04/14		99	%	80 - 120
			Dissolved Nickel (Ni)	2022/04/14		95	%	80 - 120
			Dissolved Selenium (Se)	2022/04/14		98	%	80 - 120
			Dissolved Silver (Ag)	2022/04/14		99	%	80 - 120
			Dissolved Sodium (Na)	2022/04/14		98	%	80 - 120
			Dissolved Thallium (Tl)	2022/04/14		97	%	80 - 120
			Dissolved Uranium (U)	2022/04/14		98	%	80 - 120
			Dissolved Vanadium (V)	2022/04/14		97	%	80 - 120
			Dissolved Zinc (Zn)	2022/04/14		95	%	80 - 120
			Dissolved Antimony (Sb)	2022/04/14	<0.50		ug/L	
			Dissolved Arsenic (As)	2022/04/14	<1.0		ug/L	
			Dissolved Barium (Ba)	2022/04/14	<2.0		ug/L	
			Dissolved Beryllium (Be)	2022/04/14	<0.40		ug/L	
			Dissolved Boron (B)	2022/04/14	<10		ug/L	
			Dissolved Cadmium (Cd)	2022/04/14	<0.090		ug/L	
			Dissolved Chromium (Cr)	2022/04/14	<5.0		ug/L	
			Dissolved Cobalt (Co)	2022/04/14	<0.50		ug/L	
			Dissolved Copper (Cu)	2022/04/14	<0.90		ug/L	
			Dissolved Lead (Pb)	2022/04/14	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2022/04/14	<0.50		ug/L	
			Dissolved Nickel (Ni)	2022/04/14	<1.0		ug/L	
			Dissolved Selenium (Se)	2022/04/14	<2.0		ug/L	
			Dissolved Silver (Ag)	2022/04/14	<0.090		ug/L	
			Dissolved Sodium (Na)	2022/04/14	<100		ug/L	
			Dissolved Thallium (Tl)	2022/04/14	<0.050		ug/L	
			Dissolved Uranium (U)	2022/04/14	<0.10		ug/L	
			Dissolved Vanadium (V)	2022/04/14	<0.50		ug/L	
			Dissolved Zinc (Zn)	2022/04/14	<5.0		ug/L	
7934209	N_R	RPD	Dissolved Antimony (Sb)	2022/04/14	NC		%	20
			Dissolved Arsenic (As)	2022/04/14	NC		%	20
			Dissolved Barium (Ba)	2022/04/14	1.0		%	20
			Dissolved Beryllium (Be)	2022/04/14	NC		%	20
			Dissolved Boron (B)	2022/04/14	1.4		%	20
			Dissolved Cadmium (Cd)	2022/04/14	NC		%	20
			Dissolved Chromium (Cr)	2022/04/14	NC		%	20
			Dissolved Cobalt (Co)	2022/04/14	0.11		%	20
			Dissolved Copper (Cu)	2022/04/14	0.97		%	20
			Dissolved Lead (Pb)	2022/04/14	NC		%	20
			Dissolved Molybdenum (Mo)	2022/04/14	5.2		%	20
			Dissolved Nickel (Ni)	2022/04/14	1.8		%	20
			Dissolved Selenium (Se)	2022/04/14	NC		%	20
			Dissolved Silver (Ag)	2022/04/14	NC		%	20
			Dissolved Sodium (Na)	2022/04/14	1.8		%	20
			Dissolved Thallium (Tl)	2022/04/14	NC		%	20
			Dissolved Uranium (U)	2022/04/14	1.3		%	20
			Dissolved Vanadium (V)	2022/04/14	NC		%	20



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dissolved Zinc (Zn)	2022/04/14	NC		%	20
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.									
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.									
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 (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)									
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).									



BUREAU
VERITAS

Bureau Veritas Job #: C294362

Report Date: 2022/04/18

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE ROAD

Your P.O. #: 0138-001.02

Sampler Initials: CH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas
6740 Campbell Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvna.com

CH

Page 1 of 1

09-Apr-22 08:27

Deepthi Shaji

C294362

KTN

ENV-1085



Order #:



871758

Project Manager:

Deepthi Shaji

INVOICE TO:
Company Name: #34874 BLUEFROG ENVIRONMENTAL CONSULTING
Attention: Oshin Gharabegian
Address: SUITE 100-208 WYECROFT ROAD
OAKVILLE ON L6K 3T8
Tel: Fax:
Email: ogharabegian@bluefrogconsulting.ca

REPORT TO:
Company Name:
Attention: Oshin Gharabegian
Address:
Tel: Fax:
Email: ogharabegian@bluefrogconsulting.ca

PROJECT INFORMATION:
Quotation #: C20119
P.O. #: 0138-001.02
Project: 0138-001.02
Project Name:
Site #: 1310 South Service Rd.
Sampled By: Claire Houlden

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Table 2 ☐ Table 3 ☒ Table 4	☒ Res/Park ☐ Medium/Fine ☐ Ind/Comm ☐ Agri/Other ☐ CCME ☐ Reg 558 ☐ MISA ☐ PWQO ☐ Other	☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw ☐ Municipality ☐ Reg 406 Table

Include Criteria on Certificate of Analysis (Y/N)? N

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix
1	MW112	22/04/08	1341	GW
2	MW113	22/04/08	1300	GW
3	MW114	22/04/08	1436	GW
4				
5				
6				
7				
8				
9				
10				

Field Filtered (please circle):
Metals / Hg / Cr VI

O Reg 153 VOCs by HS & F1-F4

O Reg 153 Metals Package (incl HG and Cr6)

Hamilton Sanitary & Storm Sewer (14-050)

O Reg 153 10 PMS Metals

O Reg 153 3 PMS PAHs

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT:

(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

Date Required: Time Required:

Rush Confirmation Number: (call lab for #)

of Bottles

Comments

6

6

6

RELINQUISHED BY: (Signature/Print) Claire Houlden Date: (YY/MM/DD) 22/04/08 Time 22:00
RECEIVED BY: (Signature/Print) Rashid P. P. P. Date: (YY/MM/DD) 2022/04/09 Time 08:27
Jars used and not submitted

Laboratory Use Only

Time Sensitive

Temperature (°C) on Receipt

21.4/2

Custody Seal

Present

Intact

Yes

No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

* 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.

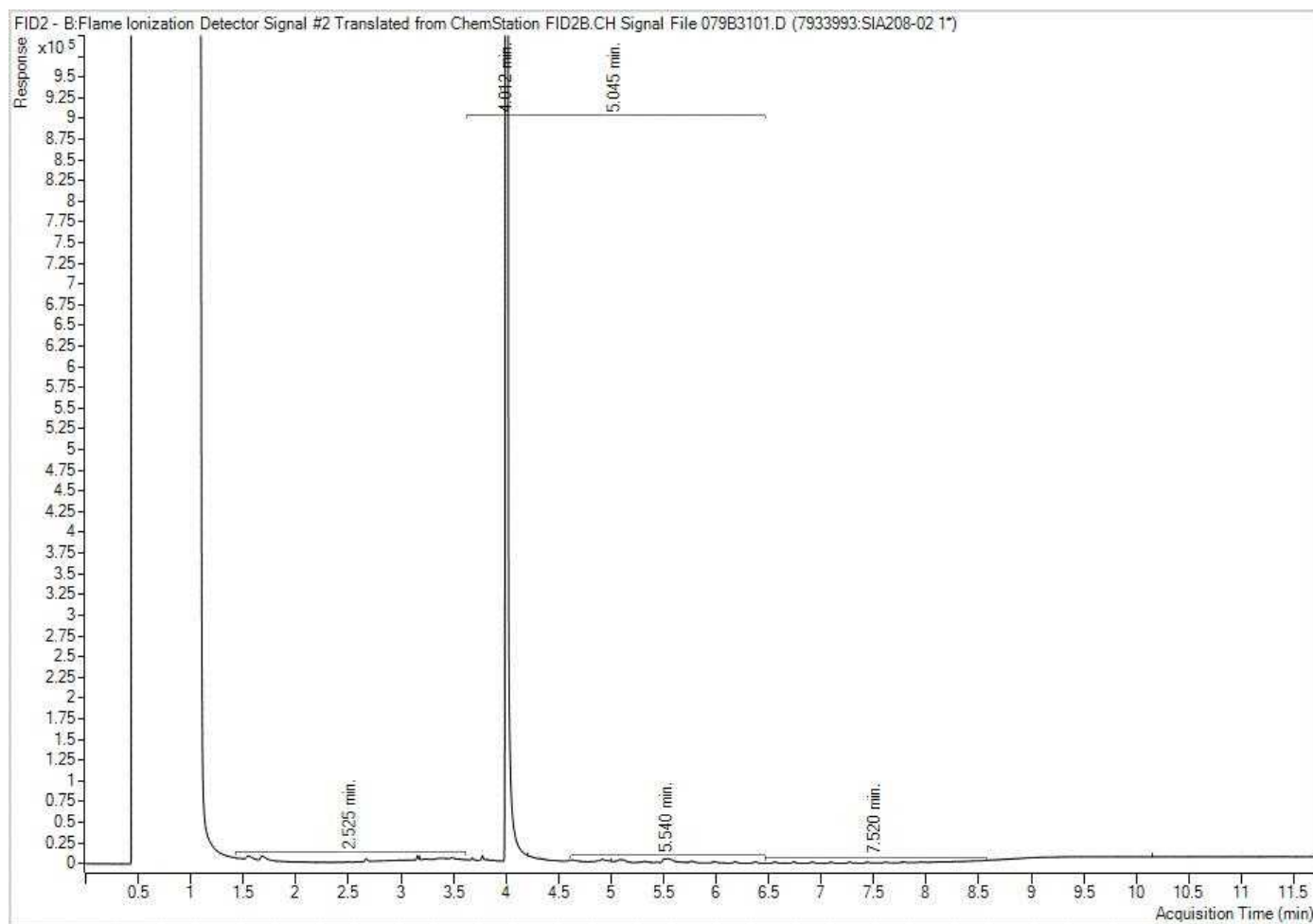
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

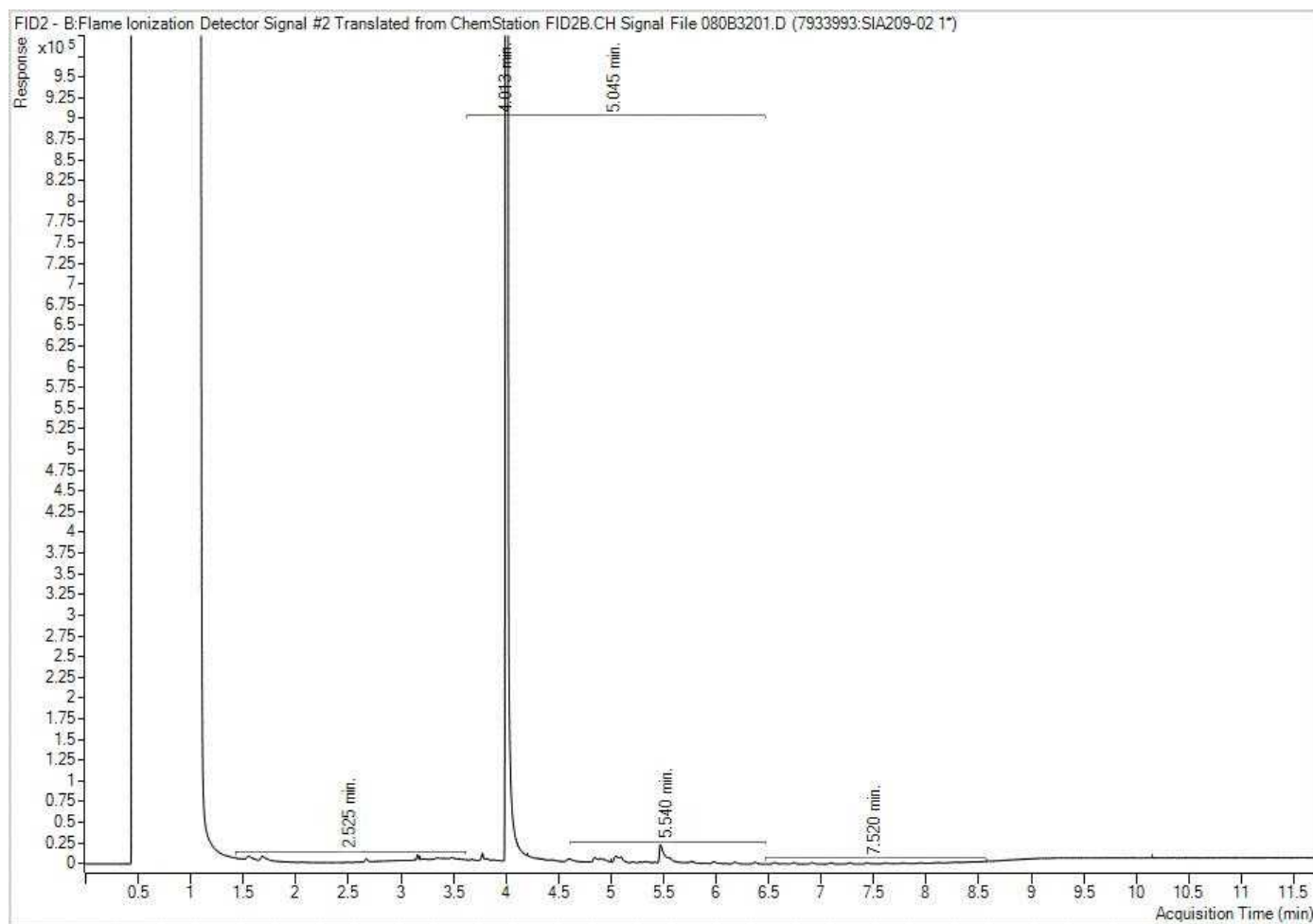
Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



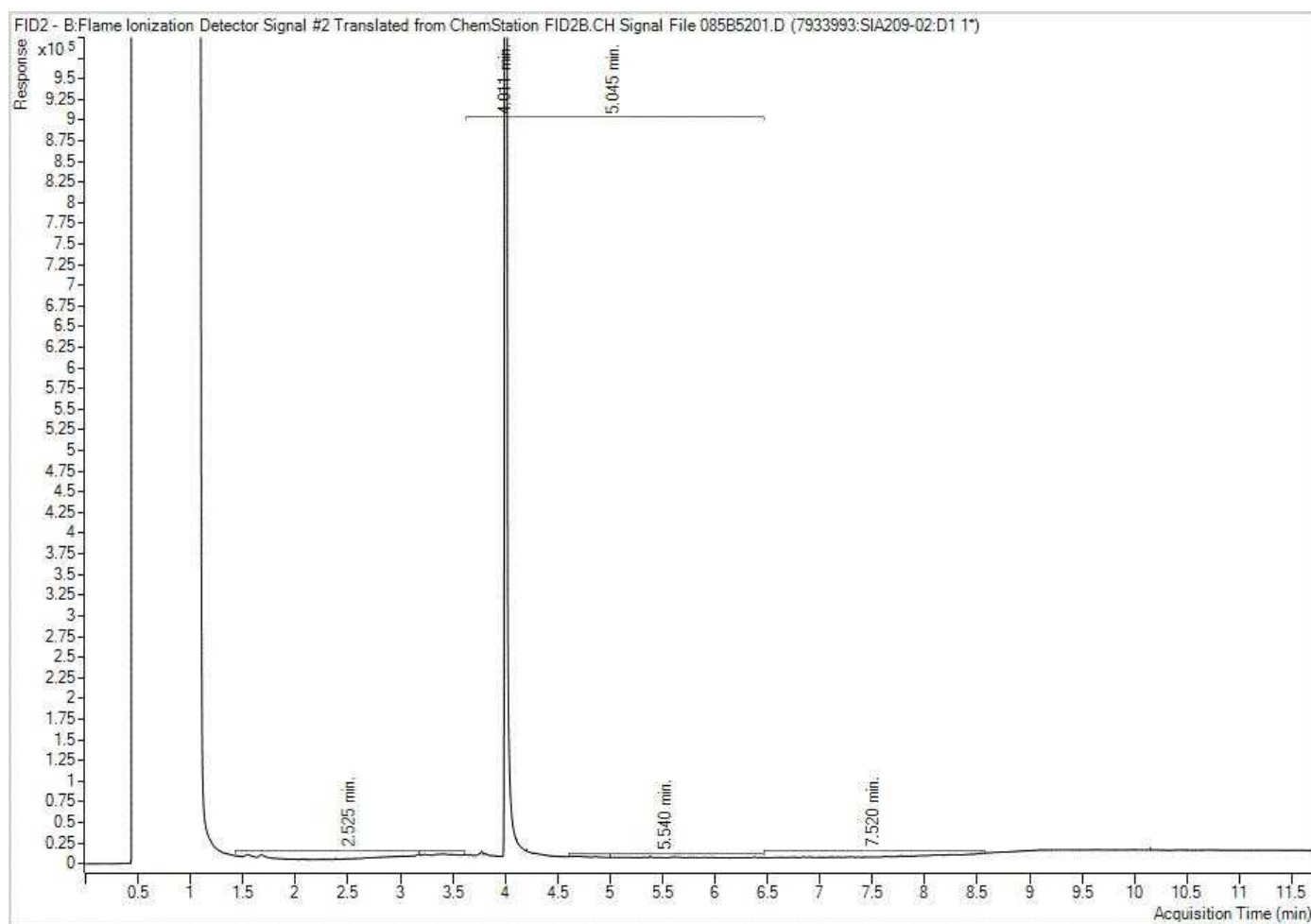
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



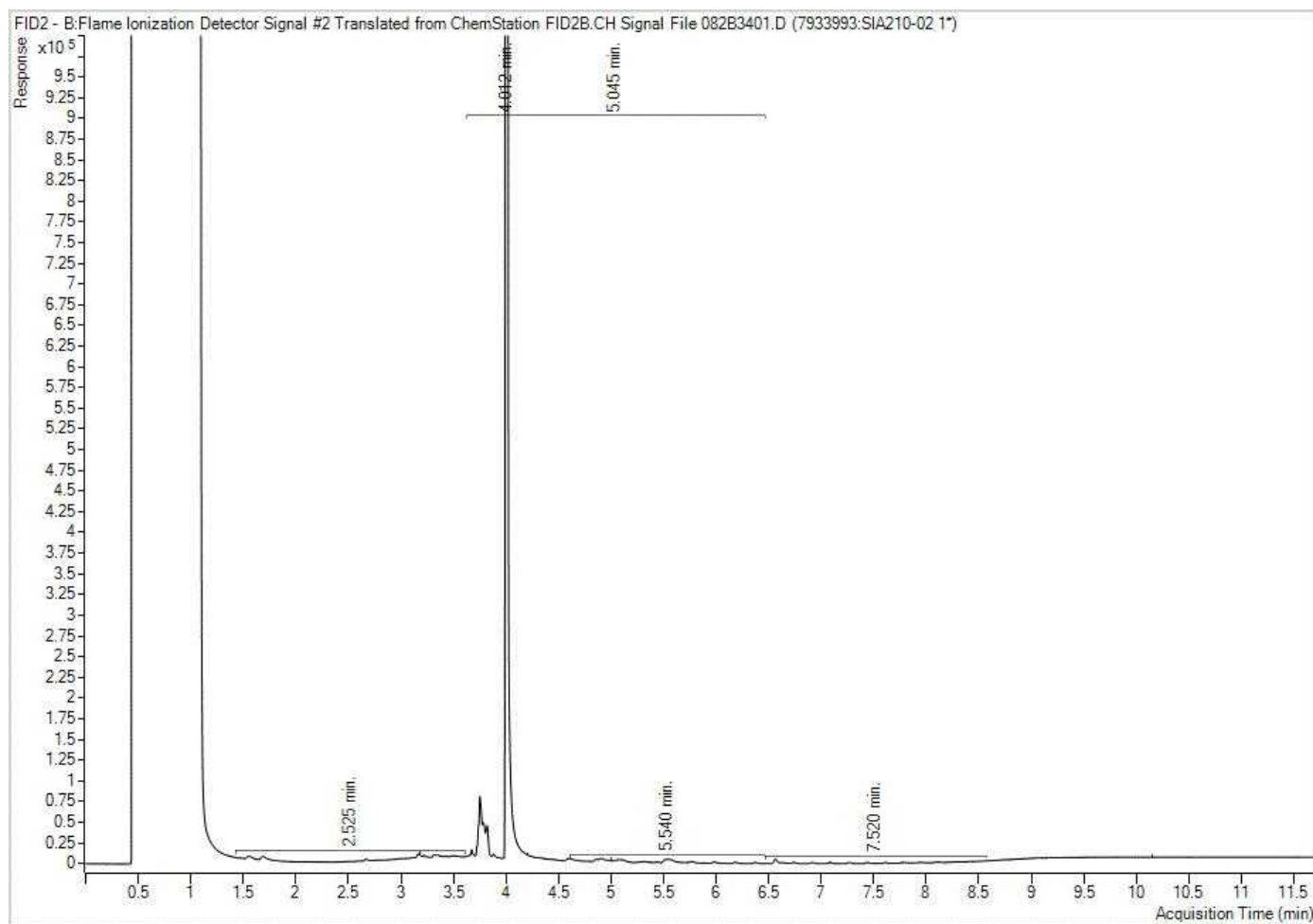
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your P.O. #: 0138-001.02
Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your C.O.C. #: n/a

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/05/12

Report #: R7122440

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C3299

Received: 2022/05/06, 19:38

Sample Matrix: Water
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum	1	N/A	2022/05/12	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	1	N/A	2022/05/11		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/05/11	2022/05/11	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	1	N/A	2022/05/10	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	1	2022/05/11	2022/05/12	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	1	N/A	2022/05/10	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.



Your P.O. #: 0138-001.02
Your Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your C.O.C. #: n/a

Attention: Oshin Gharabegian

BLUEFROG ENVIRONMENTAL CONSULTING INC.
SUITE 100-208 WYECROFT ROAD
OAKVILLE, ON
CANADA L6K 3T8

Report Date: 2022/05/12

Report #: R7122440

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2C3299

Received: 2022/05/06, 19:38

Encryption Key



Bureau Veritas

12 May 2022 17:33:48

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

Deepthi Shaji, Project Manager

Email: Deepthi.Shaji@bureauveritas.com

Phone# (905)817-5700 Ext:7065843

=====

This report has been generated and distributed using a secure automated process.

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For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 2

Page 2 of 18

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID		SOG315		
Sampling Date		2022/05/06 12:31		
COC Number		n/a		
	UNITS	MW105	RDL	QC Batch
Metals				
Dissolved Antimony (Sb)	ug/L	0.71	0.50	7984324
Dissolved Arsenic (As)	ug/L	1.4	1.0	7984324
Dissolved Barium (Ba)	ug/L	38	2.0	7984324
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7984324
Dissolved Boron (B)	ug/L	450	10	7984324
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7984324
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7984324
Dissolved Cobalt (Co)	ug/L	3.8	0.50	7984324
Dissolved Copper (Cu)	ug/L	2.9	0.90	7984324
Dissolved Lead (Pb)	ug/L	0.64	0.50	7984324
Dissolved Molybdenum (Mo)	ug/L	74	0.50	7984324
Dissolved Nickel (Ni)	ug/L	8.0	1.0	7984324
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7984324
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7984324
Dissolved Sodium (Na)	ug/L	550000	100	7984324
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7984324
Dissolved Uranium (U)	ug/L	18	0.10	7984324
Dissolved Vanadium (V)	ug/L	1.4	0.50	7984324
Dissolved Zinc (Zn)	ug/L	8.3	5.0	7984324
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C2C3299

Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

O.REG 153 PAHS (WATER)

Bureau Veritas ID		SOG315		
Sampling Date		2022/05/06 12:31		
COC Number		n/a		
	UNITS	MW105	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	7982563
Polyaromatic Hydrocarbons				
Acenaphthene	ug/L	<0.050	0.050	7989423
Acenaphthylene	ug/L	<0.050	0.050	7989423
Anthracene	ug/L	<0.050	0.050	7989423
Benzo(a)anthracene	ug/L	<0.050	0.050	7989423
Benzo(a)pyrene	ug/L	<0.0090	0.0090	7989423
Benzo(b/j)fluoranthene	ug/L	<0.050	0.050	7989423
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	7989423
Benzo(k)fluoranthene	ug/L	<0.050	0.050	7989423
Chrysene	ug/L	<0.050	0.050	7989423
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	7989423
Fluoranthene	ug/L	<0.050	0.050	7989423
Fluorene	ug/L	<0.050	0.050	7989423
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	7989423
1-Methylnaphthalene	ug/L	<0.050	0.050	7989423
2-Methylnaphthalene	ug/L	<0.050	0.050	7989423
Naphthalene	ug/L	<0.050	0.050	7989423
Phenanthrene	ug/L	<0.030	0.030	7989423
Pyrene	ug/L	<0.050	0.050	7989423
Surrogate Recovery (%)				
D10-Anthracene	%	90		7989423
D14-Terphenyl (FS)	%	78		7989423
D8-Acenaphthylene	%	89		7989423
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C2C3299

Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SOG315		
Sampling Date		2022/05/06 12:31		
COC Number		n/a		
	UNITS	MW105	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7982286
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7983949
Benzene	ug/L	<0.17	0.17	7983949
Bromodichloromethane	ug/L	<0.50	0.50	7983949
Bromoform	ug/L	<1.0	1.0	7983949
Bromomethane	ug/L	<0.50	0.50	7983949
Carbon Tetrachloride	ug/L	<0.20	0.20	7983949
Chlorobenzene	ug/L	<0.20	0.20	7983949
Chloroform	ug/L	<0.20	0.20	7983949
Dibromochloromethane	ug/L	<0.50	0.50	7983949
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7983949
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7983949
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7983949
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7983949
1,1-Dichloroethane	ug/L	<0.20	0.20	7983949
1,2-Dichloroethane	ug/L	<0.50	0.50	7983949
1,1-Dichloroethylene	ug/L	<0.20	0.20	7983949
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7983949
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7983949
1,2-Dichloropropane	ug/L	<0.20	0.20	7983949
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7983949
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7983949
Ethylbenzene	ug/L	<0.20	0.20	7983949
Ethylene Dibromide	ug/L	<0.20	0.20	7983949
Hexane	ug/L	<1.0	1.0	7983949
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7983949
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7983949
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7983949
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7983949
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C2C3299
Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		SOG315		
Sampling Date		2022/05/06 12:31		
COC Number		n/a		
	UNITS	MW105	RDL	QC Batch
Styrene	ug/L	<0.50	0.50	7983949
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7983949
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7983949
Tetrachloroethylene	ug/L	<0.20	0.20	7983949
Toluene	ug/L	<0.20	0.20	7983949
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7983949
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7983949
Trichloroethylene	ug/L	<0.20	0.20	7983949
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7983949
Vinyl Chloride	ug/L	<0.20	0.20	7983949
p+m-Xylene	ug/L	<0.20	0.20	7983949
o-Xylene	ug/L	<0.20	0.20	7983949
Total Xylenes	ug/L	<0.20	0.20	7983949
F1 (C6-C10)	ug/L	<25	25	7983949
F1 (C6-C10) - BTEX	ug/L	<25	25	7983949
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7989444
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7989444
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7989444
Reached Baseline at C50	ug/L	Yes		7989444
Surrogate Recovery (%)				
o-Terphenyl	%	96		7989444
4-Bromofluorobenzene	%	97		7983949
D4-1,2-Dichloroethane	%	105		7983949
D8-Toluene	%	98		7983949
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C2C3299

Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

TEST SUMMARY

Bureau Veritas ID: SOG315

Sample ID: MW105

Matrix: Water

Collected: 2022/05/06

Shipped:

Received: 2022/05/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7982563	N/A	2022/05/12	Automated Statchk
1,3-Dichloropropene Sum	CALC	7982286	N/A	2022/05/11	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7989444	2022/05/11	2022/05/11	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	7984324	N/A	2022/05/10	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7989423	2022/05/11	2022/05/12	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7983949	N/A	2022/05/10	Anna Gabrielyan



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.7°C
-----------	-------

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C2C3299
Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7983949	AYA	Matrix Spike		4-Bromofluorobenzene	2022/05/10		100	%	70 - 130
				D4-1,2-Dichloroethane	2022/05/10		103	%	70 - 130
				D8-Toluene	2022/05/10		102	%	70 - 130
				Acetone (2-Propanone)	2022/05/10		105	%	60 - 140
				Benzene	2022/05/10		113	%	70 - 130
				Bromodichloromethane	2022/05/10		114	%	70 - 130
				Bromoform	2022/05/10		106	%	70 - 130
				Bromomethane	2022/05/10		131	%	60 - 140
				Carbon Tetrachloride	2022/05/10		116	%	70 - 130
				Chlorobenzene	2022/05/10		115	%	70 - 130
				Chloroform	2022/05/10		114	%	70 - 130
				Dibromochloromethane	2022/05/10		102	%	70 - 130
				1,2-Dichlorobenzene	2022/05/10		109	%	70 - 130
				1,3-Dichlorobenzene	2022/05/10		111	%	70 - 130
				1,4-Dichlorobenzene	2022/05/10		126	%	70 - 130
				Dichlorodifluoromethane (FREON 12)	2022/05/10		121	%	60 - 140
				1,1-Dichloroethane	2022/05/10		118	%	70 - 130
				1,2-Dichloroethane	2022/05/10		111	%	70 - 130
				1,1-Dichloroethylene	2022/05/10		126	%	70 - 130
				cis-1,2-Dichloroethylene	2022/05/10		119	%	70 - 130
				trans-1,2-Dichloroethylene	2022/05/10		119	%	70 - 130
				1,2-Dichloropropane	2022/05/10		119	%	70 - 130
				cis-1,3-Dichloropropene	2022/05/10		108	%	70 - 130
				trans-1,3-Dichloropropene	2022/05/10		108	%	70 - 130
				Ethylbenzene	2022/05/10		106	%	70 - 130
				Ethylene Dibromide	2022/05/10		105	%	70 - 130
				Hexane	2022/05/10		131 (1)	%	70 - 130
				Methylene Chloride(Dichloromethane)	2022/05/10		117	%	70 - 130
				Methyl Ethyl Ketone (2-Butanone)	2022/05/10		104	%	60 - 140
				Methyl Isobutyl Ketone	2022/05/10		106	%	70 - 130
				Methyl t-butyl ether (MTBE)	2022/05/10		102	%	70 - 130
				Styrene	2022/05/10		113	%	70 - 130
				1,1,1,2-Tetrachloroethane	2022/05/10		114	%	70 - 130
				1,1,2,2-Tetrachloroethane	2022/05/10		103	%	70 - 130
				Tetrachloroethylene	2022/05/10		111	%	70 - 130
				Toluene	2022/05/10		108	%	70 - 130
				1,1,1-Trichloroethane	2022/05/10		115	%	70 - 130
				1,1,2-Trichloroethane	2022/05/10		118	%	70 - 130
				Trichloroethylene	2022/05/10		124	%	70 - 130
				Trichlorofluoromethane (FREON 11)	2022/05/10		126	%	70 - 130
				Vinyl Chloride	2022/05/10		134 (1)	%	70 - 130
				p+m-Xylene	2022/05/10		109	%	70 - 130
				o-Xylene	2022/05/10		108	%	70 - 130
				F1 (C6-C10)	2022/05/10		100	%	60 - 140
7983949	AYA	Spiked Blank		4-Bromofluorobenzene	2022/05/10		100	%	70 - 130
				D4-1,2-Dichloroethane	2022/05/10		102	%	70 - 130
				D8-Toluene	2022/05/10		103	%	70 - 130
				Acetone (2-Propanone)	2022/05/10		91	%	60 - 140
				Benzene	2022/05/10		99	%	70 - 130
				Bromodichloromethane	2022/05/10		100	%	70 - 130



BUREAU
VERITAS

Bureau Veritas Job #: C2C3299

Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Bromoform	2022/05/10		94	%	70 - 130
			Bromomethane	2022/05/10		114	%	60 - 140
			Carbon Tetrachloride	2022/05/10		102	%	70 - 130
			Chlorobenzene	2022/05/10		102	%	70 - 130
			Chloroform	2022/05/10		100	%	70 - 130
			Dibromochloromethane	2022/05/10		90	%	70 - 130
			1,2-Dichlorobenzene	2022/05/10		97	%	70 - 130
			1,3-Dichlorobenzene	2022/05/10		98	%	70 - 130
			1,4-Dichlorobenzene	2022/05/10		111	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/05/10		108	%	60 - 140
			1,1-Dichloroethane	2022/05/10		103	%	70 - 130
			1,2-Dichloroethane	2022/05/10		97	%	70 - 130
			1,1-Dichloroethylene	2022/05/10		111	%	70 - 130
			cis-1,2-Dichloroethylene	2022/05/10		104	%	70 - 130
			trans-1,2-Dichloroethylene	2022/05/10		105	%	70 - 130
			1,2-Dichloropropane	2022/05/10		104	%	70 - 130
			cis-1,3-Dichloropropene	2022/05/10		94	%	70 - 130
			trans-1,3-Dichloropropene	2022/05/10		94	%	70 - 130
			Ethylbenzene	2022/05/10		95	%	70 - 130
			Ethylene Dibromide	2022/05/10		92	%	70 - 130
			Hexane	2022/05/10		115	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/05/10		103	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/05/10		89	%	60 - 140
			Methyl Isobutyl Ketone	2022/05/10		93	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/05/10		89	%	70 - 130
			Styrene	2022/05/10		101	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/05/10		101	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/05/10		91	%	70 - 130
			Tetrachloroethylene	2022/05/10		99	%	70 - 130
			Toluene	2022/05/10		95	%	70 - 130
			1,1,1-Trichloroethane	2022/05/10		101	%	70 - 130
			1,1,2-Trichloroethane	2022/05/10		103	%	70 - 130
			Trichloroethylene	2022/05/10		109	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/05/10		111	%	70 - 130
			Vinyl Chloride	2022/05/10		119	%	70 - 130
			p+m-Xylene	2022/05/10		97	%	70 - 130
			o-Xylene	2022/05/10		95	%	70 - 130
			F1 (C6-C10)	2022/05/10		95	%	60 - 140
7983949	AYA	Method Blank	4-Bromofluorobenzene	2022/05/10		98	%	70 - 130
			D4-1,2-Dichloroethane	2022/05/10		101	%	70 - 130
			D8-Toluene	2022/05/10		100	%	70 - 130
			Acetone (2-Propanone)	2022/05/10	<10		ug/L	
			Benzene	2022/05/10	<0.17		ug/L	
			Bromodichloromethane	2022/05/10	<0.50		ug/L	
			Bromoform	2022/05/10	<1.0		ug/L	
			Bromomethane	2022/05/10	<0.50		ug/L	
			Carbon Tetrachloride	2022/05/10	<0.20		ug/L	
			Chlorobenzene	2022/05/10	<0.20		ug/L	
			Chloroform	2022/05/10	<0.20		ug/L	
			Dibromochloromethane	2022/05/10	<0.50		ug/L	



BUREAU
VERITAS

Bureau Veritas Job #: C2C3299

Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7983949	AYA	RPD	1,2-Dichlorobenzene	2022/05/10	<0.50		ug/L	
			1,3-Dichlorobenzene	2022/05/10	<0.50		ug/L	
			1,4-Dichlorobenzene	2022/05/10	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2022/05/10	<1.0		ug/L	
			1,1-Dichloroethane	2022/05/10	<0.20		ug/L	
			1,2-Dichloroethane	2022/05/10	<0.50		ug/L	
			1,1-Dichloroethylene	2022/05/10	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2022/05/10	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2022/05/10	<0.50		ug/L	
			1,2-Dichloropropane	2022/05/10	<0.20		ug/L	
			cis-1,3-Dichloropropene	2022/05/10	<0.30		ug/L	
			trans-1,3-Dichloropropene	2022/05/10	<0.40		ug/L	
			Ethylbenzene	2022/05/10	<0.20		ug/L	
			Ethylene Dibromide	2022/05/10	<0.20		ug/L	
			Hexane	2022/05/10	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2022/05/10	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2022/05/10	<10		ug/L	
			Methyl Isobutyl Ketone	2022/05/10	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2022/05/10	<0.50		ug/L	
			Styrene	2022/05/10	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2022/05/10	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2022/05/10	<0.50		ug/L	
			Tetrachloroethylene	2022/05/10	<0.20		ug/L	
			Toluene	2022/05/10	<0.20		ug/L	
			1,1,1-Trichloroethane	2022/05/10	<0.20		ug/L	
			1,1,2-Trichloroethane	2022/05/10	<0.50		ug/L	
			Trichloroethylene	2022/05/10	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2022/05/10	<0.50		ug/L	
			Vinyl Chloride	2022/05/10	<0.20		ug/L	
			p+m-Xylene	2022/05/10	<0.20		ug/L	
			o-Xylene	2022/05/10	<0.20		ug/L	
			Total Xylenes	2022/05/10	<0.20		ug/L	
			F1 (C6-C10)	2022/05/10	<25		ug/L	
			F1 (C6-C10) - BTEX	2022/05/10	<25		ug/L	
			Acetone (2-Propanone)	2022/05/10	NC		%	30
			Benzene	2022/05/10	NC		%	30
			Bromodichloromethane	2022/05/10	NC		%	30
			Bromoform	2022/05/10	NC		%	30
			Bromomethane	2022/05/10	NC		%	30
			Carbon Tetrachloride	2022/05/10	NC		%	30
			Chlorobenzene	2022/05/10	NC		%	30
			Chloroform	2022/05/10	NC		%	30
			Dibromochloromethane	2022/05/10	NC		%	30
			1,2-Dichlorobenzene	2022/05/10	NC		%	30
			1,3-Dichlorobenzene	2022/05/10	NC		%	30
			1,4-Dichlorobenzene	2022/05/10	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2022/05/10	NC		%	30
			1,1-Dichloroethane	2022/05/10	NC		%	30
			1,2-Dichloroethane	2022/05/10	NC		%	30
			1,1-Dichloroethylene	2022/05/10	NC		%	30



BUREAU
VERITAS

Bureau Veritas Job #: C2C3299

Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,2-Dichloroethylene	2022/05/10	NC		%	30
			trans-1,2-Dichloroethylene	2022/05/10	NC		%	30
			1,2-Dichloropropane	2022/05/10	NC		%	30
			cis-1,3-Dichloropropene	2022/05/10	NC		%	30
			trans-1,3-Dichloropropene	2022/05/10	NC		%	30
			Ethylbenzene	2022/05/10	NC		%	30
			Ethylene Dibromide	2022/05/10	NC		%	30
			Hexane	2022/05/10	NC		%	30
			Methylene Chloride(Dichloromethane)	2022/05/10	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2022/05/10	NC		%	30
			Methyl Isobutyl Ketone	2022/05/10	NC		%	30
			Methyl t-butyl ether (MTBE)	2022/05/10	NC		%	30
			Styrene	2022/05/10	NC		%	30
			1,1,1,2-Tetrachloroethane	2022/05/10	NC		%	30
			1,1,2,2-Tetrachloroethane	2022/05/10	NC		%	30
			Tetrachloroethylene	2022/05/10	NC		%	30
			Toluene	2022/05/10	NC		%	30
			1,1,1-Trichloroethane	2022/05/10	NC		%	30
			1,1,2-Trichloroethane	2022/05/10	NC		%	30
			Trichloroethylene	2022/05/10	NC		%	30
			Trichlorofluoromethane (FREON 11)	2022/05/10	NC		%	30
			Vinyl Chloride	2022/05/10	NC		%	30
			p+m-Xylene	2022/05/10	NC		%	30
			o-Xylene	2022/05/10	NC		%	30
			Total Xylenes	2022/05/10	NC		%	30
			F1 (C6-C10)	2022/05/10	NC		%	30
			F1 (C6-C10) - BTEX	2022/05/10	NC		%	30
7984324	PBA	Matrix Spike	Dissolved Antimony (Sb)	2022/05/10		104	%	80 - 120
			Dissolved Arsenic (As)	2022/05/10		96	%	80 - 120
			Dissolved Barium (Ba)	2022/05/10		98	%	80 - 120
			Dissolved Beryllium (Be)	2022/05/10		100	%	80 - 120
			Dissolved Boron (B)	2022/05/10		95	%	80 - 120
			Dissolved Cadmium (Cd)	2022/05/10		100	%	80 - 120
			Dissolved Chromium (Cr)	2022/05/10		91	%	80 - 120
			Dissolved Cobalt (Co)	2022/05/10		93	%	80 - 120
			Dissolved Copper (Cu)	2022/05/10		91	%	80 - 120
			Dissolved Lead (Pb)	2022/05/10		94	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/05/10		98	%	80 - 120
			Dissolved Nickel (Ni)	2022/05/10		90	%	80 - 120
			Dissolved Selenium (Se)	2022/05/10		98	%	80 - 120
			Dissolved Silver (Ag)	2022/05/10		97	%	80 - 120
			Dissolved Sodium (Na)	2022/05/10		NC	%	80 - 120
			Dissolved Thallium (Tl)	2022/05/10		100	%	80 - 120
			Dissolved Uranium (U)	2022/05/10		100	%	80 - 120
			Dissolved Vanadium (V)	2022/05/10		95	%	80 - 120
			Dissolved Zinc (Zn)	2022/05/10		93	%	80 - 120
7984324	PBA	Spiked Blank	Dissolved Antimony (Sb)	2022/05/10		101	%	80 - 120
			Dissolved Arsenic (As)	2022/05/10		97	%	80 - 120
			Dissolved Barium (Ba)	2022/05/10		99	%	80 - 120
			Dissolved Beryllium (Be)	2022/05/10		95	%	80 - 120



**BUREAU
VERITAS**

Bureau Veritas Job #: C2C3299
Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7984324	PBA	Method Blank	Dissolved Boron (B)	2022/05/10		92	%	80 - 120
			Dissolved Cadmium (Cd)	2022/05/10		100	%	80 - 120
			Dissolved Chromium (Cr)	2022/05/10		92	%	80 - 120
			Dissolved Cobalt (Co)	2022/05/10		94	%	80 - 120
			Dissolved Copper (Cu)	2022/05/10		92	%	80 - 120
			Dissolved Lead (Pb)	2022/05/10		95	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/05/10		97	%	80 - 120
			Dissolved Nickel (Ni)	2022/05/10		91	%	80 - 120
			Dissolved Selenium (Se)	2022/05/10		101	%	80 - 120
			Dissolved Silver (Ag)	2022/05/10		99	%	80 - 120
			Dissolved Sodium (Na)	2022/05/10		92	%	80 - 120
			Dissolved Thallium (Tl)	2022/05/10		101	%	80 - 120
			Dissolved Uranium (U)	2022/05/10		103	%	80 - 120
			Dissolved Vanadium (V)	2022/05/10		94	%	80 - 120
			Dissolved Zinc (Zn)	2022/05/10		94	%	80 - 120
			Dissolved Antimony (Sb)	2022/05/10	<0.50		ug/L	
			Dissolved Arsenic (As)	2022/05/10	<1.0		ug/L	
			Dissolved Barium (Ba)	2022/05/10	<2.0		ug/L	
			Dissolved Beryllium (Be)	2022/05/10	<0.40		ug/L	
			Dissolved Boron (B)	2022/05/10	<10		ug/L	
7984324	PBA	RPD	Dissolved Cadmium (Cd)	2022/05/10	<0.090		ug/L	
			Dissolved Chromium (Cr)	2022/05/10	<5.0		ug/L	
			Dissolved Cobalt (Co)	2022/05/10	<0.50		ug/L	
			Dissolved Copper (Cu)	2022/05/10	<0.90		ug/L	
			Dissolved Lead (Pb)	2022/05/10	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2022/05/10	<0.50		ug/L	
			Dissolved Nickel (Ni)	2022/05/10	<1.0		ug/L	
			Dissolved Selenium (Se)	2022/05/10	<2.0		ug/L	
			Dissolved Silver (Ag)	2022/05/10	<0.090		ug/L	
			Dissolved Sodium (Na)	2022/05/10	<100		ug/L	
			Dissolved Thallium (Tl)	2022/05/10	<0.050		ug/L	
			Dissolved Uranium (U)	2022/05/10	<0.10		ug/L	
			Dissolved Vanadium (V)	2022/05/10	<0.50		ug/L	
			Dissolved Zinc (Zn)	2022/05/10	<5.0		ug/L	
7989423	JYO	Matrix Spike	Dissolved Arsenic (As)	2022/05/10	2.7		%	20
			Dissolved Chromium (Cr)	2022/05/10	NC		%	20
			Dissolved Copper (Cu)	2022/05/10	2.0		%	20
			D10-Anthracene	2022/05/12		104	%	50 - 130
			D14-Terphenyl (FS)	2022/05/12		89	%	50 - 130
			D8-Acenaphthylene	2022/05/12		95	%	50 - 130
			Acenaphthene	2022/05/12		100	%	50 - 130
			Acenaphthylene	2022/05/12		100	%	50 - 130
			Anthracene	2022/05/12		98	%	50 - 130
			Benzo(a)anthracene	2022/05/12		101	%	50 - 130
			Benzo(a)pyrene	2022/05/12		101	%	50 - 130
			Benzo(b,j)fluoranthene	2022/05/12		93	%	50 - 130
			Benzo(g,h,i)perylene	2022/05/12		98	%	50 - 130
			Benzo(k)fluoranthene	2022/05/12		109	%	50 - 130
			Chrysene	2022/05/12		102	%	50 - 130
			Dibenzo(a,h)anthracene	2022/05/12		109	%	50 - 130



**BUREAU
VERITAS**

Bureau Veritas Job #: C2C3299
Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.
Client Project #: 0138-001.02
Site Location: 1310 SOUTH SERVICE RD
Your P.O. #: 0138-001.02
Sampler Initials: CFM

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7989423	JYO	Spiked Blank	Fluoranthene	2022/05/12		92	%	50 - 130
			Fluorene	2022/05/12		95	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/05/12		99	%	50 - 130
			1-Methylnaphthalene	2022/05/12		93	%	50 - 130
			2-Methylnaphthalene	2022/05/12		99	%	50 - 130
			Naphthalene	2022/05/12		97	%	50 - 130
			Phenanthrene	2022/05/12		100	%	50 - 130
			Pyrene	2022/05/12		92	%	50 - 130
			D10-Anthracene	2022/05/12		99	%	50 - 130
			D14-Terphenyl (FS)	2022/05/12		94	%	50 - 130
			D8-Acenaphthylene	2022/05/12		88	%	50 - 130
			Acenaphthene	2022/05/12		88	%	50 - 130
			Acenaphthylene	2022/05/12		88	%	50 - 130
			Anthracene	2022/05/12		88	%	50 - 130
			Benzo(a)anthracene	2022/05/12		86	%	50 - 130
			Benzo(a)pyrene	2022/05/12		86	%	50 - 130
			Benzo(b/j)fluoranthene	2022/05/12		85	%	50 - 130
			Benzo(g,h,i)perylene	2022/05/12		85	%	50 - 130
			Benzo(k)fluoranthene	2022/05/12		86	%	50 - 130
			Chrysene	2022/05/12		87	%	50 - 130
			Dibenzo(a,h)anthracene	2022/05/12		92	%	50 - 130
			Fluoranthene	2022/05/12		90	%	50 - 130
			Fluorene	2022/05/12		87	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/05/12		86	%	50 - 130
			1-Methylnaphthalene	2022/05/12		83	%	50 - 130
			2-Methylnaphthalene	2022/05/12		87	%	50 - 130
			Naphthalene	2022/05/12		87	%	50 - 130
			Phenanthrene	2022/05/12		89	%	50 - 130
			Pyrene	2022/05/12		92	%	50 - 130
7989423	JYO	Method Blank	D10-Anthracene	2022/05/12		114	%	50 - 130
			D14-Terphenyl (FS)	2022/05/12		91	%	50 - 130
			D8-Acenaphthylene	2022/05/12		90	%	50 - 130
			Acenaphthene	2022/05/12	<0.050		ug/L	
			Acenaphthylene	2022/05/12	<0.050		ug/L	
			Anthracene	2022/05/12	<0.050		ug/L	
			Benzo(a)anthracene	2022/05/12	<0.050		ug/L	
			Benzo(a)pyrene	2022/05/12	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2022/05/12	<0.050		ug/L	
			Benzo(g,h,i)perylene	2022/05/12	<0.050		ug/L	
			Benzo(k)fluoranthene	2022/05/12	<0.050		ug/L	
			Chrysene	2022/05/12	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2022/05/12	<0.050		ug/L	
			Fluoranthene	2022/05/12	<0.050		ug/L	
			Fluorene	2022/05/12	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2022/05/12	<0.050		ug/L	
			1-Methylnaphthalene	2022/05/12	<0.050		ug/L	
			2-Methylnaphthalene	2022/05/12	<0.050		ug/L	
			Naphthalene	2022/05/12	<0.050		ug/L	
			Phenanthrene	2022/05/12	<0.030		ug/L	
			Pyrene	2022/05/12	<0.050		ug/L	



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7989423	JYO	RPD	Acenaphthene	2022/05/12	NC		%	30
			Acenaphthylene	2022/05/12	NC		%	30
			Anthracene	2022/05/12	NC		%	30
			Benzo(a)anthracene	2022/05/12	NC		%	30
			Benzo(a)pyrene	2022/05/12	NC		%	30
			Benzo(b/j)fluoranthene	2022/05/12	NC		%	30
			Benzo(g,h,i)perylene	2022/05/12	NC		%	30
			Benzo(k)fluoranthene	2022/05/12	NC		%	30
			Chrysene	2022/05/12	NC		%	30
			Dibenzo(a,h)anthracene	2022/05/12	NC		%	30
			Fluoranthene	2022/05/12	NC		%	30
			Fluorene	2022/05/12	NC		%	30
			Indeno(1,2,3-cd)pyrene	2022/05/12	NC		%	30
			1-Methylnaphthalene	2022/05/12	NC		%	30
			2-Methylnaphthalene	2022/05/12	NC		%	30
			Naphthalene	2022/05/12	NC		%	30
			Phenanthrene	2022/05/12	NC		%	30
			Pyrene	2022/05/12	NC		%	30
7989444	AS2	Matrix Spike	o-Terphenyl	2022/05/11		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/05/11		95	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/05/11		106	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/05/11		105	%	60 - 130
7989444	AS2	Spiked Blank	o-Terphenyl	2022/05/11		95	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/05/11		96	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/05/11		109	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/05/11		106	%	60 - 130
7989444	AS2	Method Blank	o-Terphenyl	2022/05/11		95	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/05/11	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2022/05/11	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2022/05/11	<200		ug/L	
7989444	AS2	RPD	F2 (C10-C16 Hydrocarbons)	2022/05/11	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/05/11	3.0		%	30
			F4 (C34-C50 Hydrocarbons)	2022/05/11	NC		%	30

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.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

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 (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).

(1) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.



BUREAU
VERITAS

Bureau Veritas Job #: C2C3299

Report Date: 2022/05/12

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0138-001.02

Site Location: 1310 SOUTH SERVICE RD

Your P.O. #: 0138-001.02

Sampler Initials: CFM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

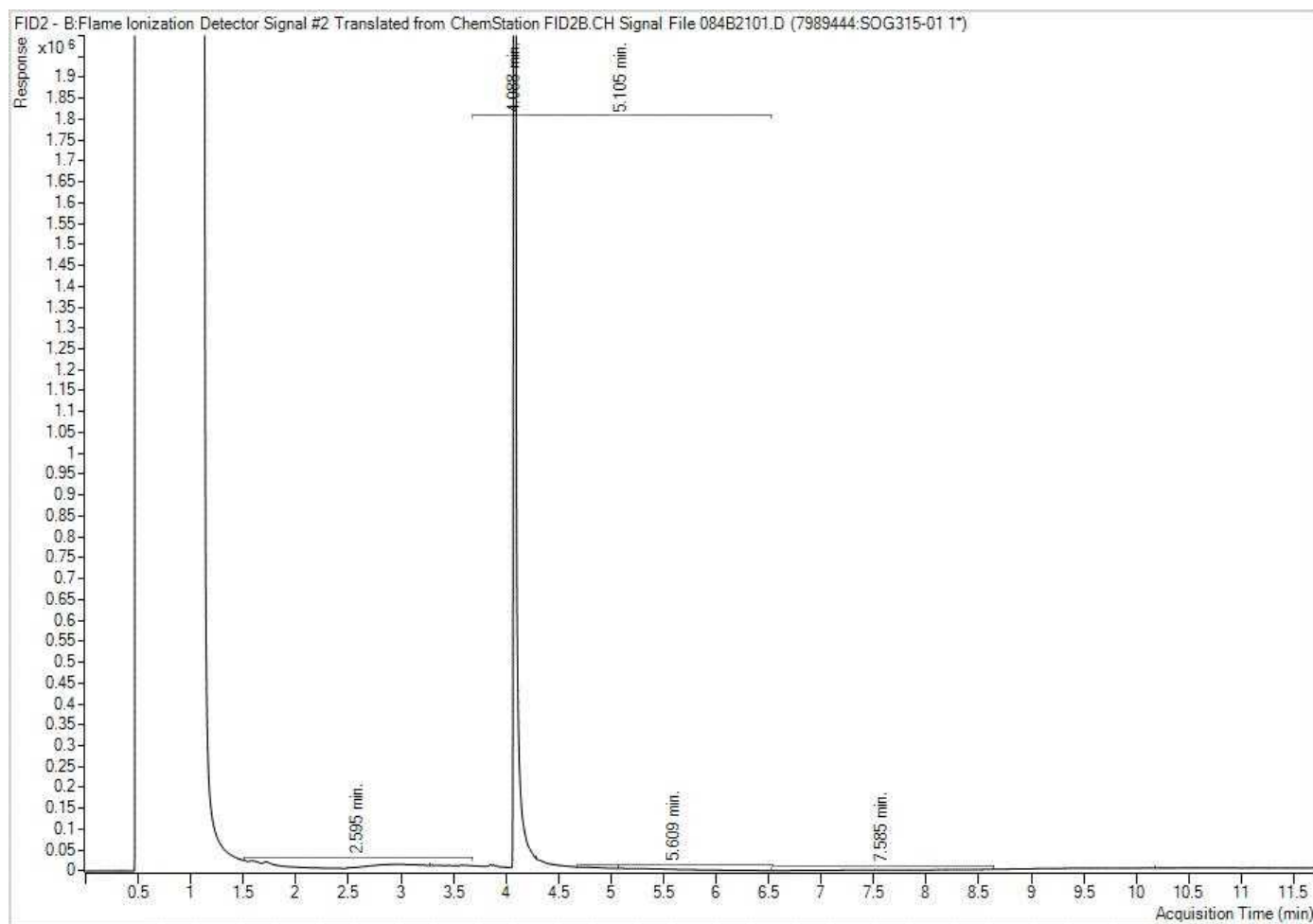
CHAIN OF CUSTODY RECORD

ENV COC - 00014v2

Page 1 of 1

Invoice Information			Report Information (if differs from Invoice)			Project Information		
Company: BlueTree Environmental Consulting			Company:			Quotation #:		
Contact Name: Oshin Ahaebegian			Contact:			P.O. #/ AFER: 0138-001-02		
Street Address: Suite 108-708 W. Hurst			Street Address:			Project #:		
City: Oakville			City:			Site #:		
Prov: ON			Prov:			Site Location: 130 South Service Rd		
Postal Code: L6L 3T6			Postal Code:			Site Location Province: ON		
Phone: 416 579 2545			Phone:			Sampled By: CFM		
Email: oahabegian@bluetreeconsulting.ca			Email:					
Copies:			Copies:					
Regulatory Criteria			Regulatory Criteria			Regulatory Criteria		
Table 1: Res/Park			Table 2: Ind/Comm			Table 3: Agri/other		
Table 4: Res/Park			Table 5: Ind/Comm			Table 6: Agri/other		
Table 7: Res/Park			Table 8: Ind/Comm			Table 9: Agri/other		
Table 10: Res/Park			Table 11: Ind/Comm			Table 12: Agri/other		
Table 13: Res/Park			Table 14: Ind/Comm			Table 15: Agri/other		
Table 16: Res/Park			Table 17: Ind/Comm			Table 18: Agri/other		
Table 19: Res/Park			Table 20: Ind/Comm			Table 21: Agri/other		
Table 22: Res/Park			Table 23: Ind/Comm			Table 24: Agri/other		
Table 25: Res/Park			Table 26: Ind/Comm			Table 27: Agri/other		
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Table 34: Res/Park			Table 35: Ind/Comm			Table 36: Agri/other		
Table 37: Res/Park			Table 38: Ind/Comm			Table 39: Agri/other		
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Table 193: Res/Park			Table 194: Ind/Comm			Table 195: Agri/other		
Table 196: Res/Park			Table 197: Ind/Comm			Table 198: Agri/other		
Table 199: Res/P								

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.