



# Limited Phase II Environmental Site Assessment PROPOSED CHICK-FIL-A RESTAURANT #30042; ORLEANS INNES RD FSU 4270 Innes Road, Orleans, Ontario

Project No. 0208-001.02

August 14, 2023

# Prepared for:

Chick-fil-A Canada ULC 5200 Buffington Road Atlanta, GA 30349 Attn: Austin Whitley

#### Prepared by:





# **Executive Summary**

Chick-fil-A Canada ULC (Chick-fil-A) retained BlueFrog Environmental Consulting Inc. (BlueFrog) to complete a Limited Phase II Environmental Site Assessment (ESA) of the subject property located at 4270 Innes Road, Orleans, Ontario (hereinafter referred to as the Site). The assessment was completed for due diligence purposes pertaining to property lease and construction of a retail commercial building.

The objective of the Limited Phase II ESA was to assess contaminants of concern (COCs) in groundwater related to potentially contaminating activities (PCAs) conducted at the adjacent property to the west (a retail fuel outlet (RFO) that has been present since 2005) identified during a Phase I ESA completed by BlueFrog in May 2023.

A Limited Phase II ESA was completed and is summarized below.

Field work dates	May 10 to 12, 2023
Total number of assessment locations advanced	1
Assessment locations completed as boreholes	None
Assessment locations completed as monitoring wells	MW7
Other	Existing monitoring well BH 4 (installed by others, 2017)
Site Condition Standard	Ministry of The Environment, Conservation and Parks (MECP) full depth generic site condition standards in a non-potable groundwater condition (Table 3) for industrial/commercial/community property use, medium and fine textured soils
Maximum assessment depth	5.2 m below ground surface (bgs)
Soil Stratigraphy	Sand fill to 0.6 mbgs overlying silty clay to the maximum depth of assessment of 5.2 m bgs. Asphalt was observed above the sand silt.
Depth to groundwater; inferred flow direction	3.27 mbgs (BH 4); site-specific groundwater flow direction was not measured due to limited data (i.e., at least three data points are needed to triangulate when contouring groundwater flow). Monitoring well MW7 was dry.
Evidence of free product	Soil: None Groundwater: none.
Subsurface vapour concentration - Combustible	Soil: 5 parts per million by volume (ppmv) to 50 ppmv Groundwater: Not detected (0 ppmv)
Subsurface vapour concentration – Organic	Soil: Not detected (0 ppmv) to 2 ppmv Groundwater: Not detected
Soil Exceedances	Not analyzed
Groundwater Exceedances	None (BH 4)

Based on the findings, the soil and groundwater conditions appear to be adequately characterized for purposes of a potential lease. No further assessment work is warranted at this time.



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

Chick-fil-A Canada ULC (Chick-fil-A) retained BlueFrog Environmental Consulting Inc. (BlueFrog) to complete a Limited Phase II Environmental Site Assessment (ESA) of the subject property located at 4270 Innes Road, Orleans, Ontario (the Site). A site map is provided as **Figure 1**.

The objective of the Limited Phase II ESA was to assess contaminants of concern (COCs) in groundwater related to potentially contaminating activities (PCAs) conducted at the adjacent property to the west (a retail fuel outlet (RFO)) identified during a Phase I ESA completed by BlueFrog in May 2023.

The subject work was performed in accordance with the *General Agreement for Professional Services* between BlueFrog Environmental Consulting Inc. and Chick-fil-A, dated November 18, 2022. This report has been prepared based on fieldwork and/or review of information conducted by BlueFrog and others, for the sole benefit and use by Chick-fil-A. 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 Chick-fil-A's objectives and the applicable guidelines, regulations, and legislation existing at the time the report was produced.

# 1.1 Background and Site Description

A Site plan is presented as Figure 2.

4270 Innes Road is a 6.44-hectare retail commercial property, developed circa 2005 from agricultural land, and occupied by Real Canadian Superstore on the southern portion and a Mobil RFO on the northwest corner. The proposed Chick-fil-A Site is approximately 4400 m², located on the northeast portion of the Site and is currently utilized as an asphalt parking surface for the adjacent retail commercial stores.

The surrounding area of the Site is commercial and residential.

#### 1.2 Proposed Development

Chick-fil-A is considering developing the northeast portion of 4270 Innes Road. The development is proposed to include the construction of a single-storey, slab-on-grade commercial restaurant building with a total area of 452.4 m<sup>2</sup> with a drive thru, outdoor dining area, garbage storage area and associated parking.



# 2.0 Scope of Work

The Limited Phase II ESA involved the following main activities:

- Advance one borehole and install a monitoring well (MW7) in the area shown on Figure 2.
- Monitor the newly installed and existing monitoring well (BH 4) 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).
- Collect a groundwater sample from the new monitoring well for laboratory analysis of:
  - benzene, toluene, ethylbenzene, and total xylenes (BTEX) and petroleum hydrocarbon (PHC) fractions F1 to F4.
- Prepare a factual report documenting the field activities and results.

Note, MW7 was dry. Therefore, a water sample was collected from BH 4 instead.

# 3.0 Methodology

This Limited 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.

#### 3.1 Drilling

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

BlueFrog staff supervised the drilling of the borehole. The assessment locations are presented on **Figure 2** and a summary of the drilling is provided in **Table i**.

Table i Drilling Details

Field work dates	Drilling and monitoring well installation (MW7): 2023/05/10
	Monitoring well development (BH 4): 2023/05/11
	Groundwater monitoring and sampling (BH 4): 2023/05/12
Drilling contractor; drill rig	George Downing Estate Drilling Ltd.: Truck mount drill rig (CME 75) equipped with hollow-stem augers and split spoon samplers
Maximum assessment depth	5.2 m
Assessment locations completed as boreholes	None
Assessment locations completed as monitoring wells	MW7

During borehole advancement, the borehole was logged for textural classification and visual observations. Hollow stem augers were used to drill through the overburden soil. Field methodology is further discussed in the following subsections. The assessment locations are presented on **Figure 2**. Borehole log detailing soil observations and monitoring well installation are presented on **Appendix A**. Well record is presented in **Appendix B**.



Drill cuttings were collected in steel drums for disposal at a MECP licensed waste receiver. Soil drums were removed by a waste hauler and disposed to a MECP approved waste receiving facility on June 12, 2023.

#### 3.2 Monitoring Well Installation

BlueFrog staff supervised the installation of a monitoring well. The monitoring well assessment location is shown on **Figure 2**.

One monitoring well, consisting of a 51 mm diameter polyvinyl chloride (PVC) 10 slot screen, measuring 3.0 m in length, and an un-slotted riser, were installed in BH7. Sand pack was placed in the annulus between the slotted PVC pipe and borehole walls to a maximum of 0.40 m above the well screen. Hydrated bentonite chips were placed in the annulus between the solid PVC pipe and borehole walls on top of the sand pack to ground surface. The monitoring well was completed with a J-plug and flush mount casing set in concrete grout to protect the well from damage. Details are presented on the Record of Borehole sheets in **Appendix A** and in **Table 1**. The well record is presented in **Appendix B**.

#### 3.3 Monitoring Well Development

Following installation of the monitoring well, it is BlueFrog's policy to develop the well by purging a minimum of three casing volumes or until the well was considered dry three times. The newly installed monitoring well could not be developed as this well was dry. However, BlueFrog developed existing monitoring well BH4 installed by others (see **Figure 2**) and removed three casing volumes of water prior to sampling.

The well was purged using dedicated tubing, and the purge water was placed in a sealed drum on-Site for temporary storage.

#### 3.4 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.

The samples were collected using a stainless-steel trowel and nitrile gloves. Each soil sample was placed in a clean plastic bag for vapour screening.

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.

No soil sample was submitted for analysis because the media of concern was groundwater considering that the assessment location was located approximately 30 m from the RFO.

#### 3.5 Groundwater Monitoring

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



Immediately after removing the well caps, the maximum combustible vapour (CV) and organic vapour (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 napl 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.

#### 3.6 Groundwater Sampling

Monitoring well MW7 was dry. Therefore, one groundwater sample was collected from existing monitoring well BH 4 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, REDOX, and turbidity 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%
рН	± 0.1 pH Units
Electrical Conductivity	± 3%
Dissolved Oxygen	± 10%
REDOX	± 10 mV
Turbidity	± 10%

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

A groundwater sample was not collected from the newly installed monitoring well as the well was dry. However, BlueFrog collected groundwater sample from the existing monitoring well BH4.

Samples were collected into sample bottles supplied by the laboratory:

- For analysis of BTEX, and PHC fraction F1, in septum topped 40 mL clear glass vials (with zero headspace), pre-charged with sodium bisulphate preservative; and
- For analysis of PHC fractions F2 to F4, in 100 mL amber glass bottles, pre-charged with sodium bisulphate preservative.

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

Developed and purged groundwater was placed in a sealed drum at the Site for storage and disposed at a MECP licensed waste receiving facility on June 12, 2023.



# 3.7 Surveying

The existing and newly installed monitoring wells were vertically and horizontally surveyed by BlueFrog on May 11, 2023 and tied into a permanent and recoverable benchmark.

# 3.8 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, and using chain of custody records.

#### 4.0 Selected Site Condition Standards

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

• Full depth generic site condition standards (SCSs) in non-potable groundwater condition (MECP 2011, Table 3) for industrial/commercial/community property use in medium and fine textured soils.

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	No part of Site is on or within 30 m of an area of natural significance.
areas	Based on previous assessments completed by BlueFrog in Ottawa, pH values for surface soil samples (< 1.5 mbgs) and subsurface soil samples (> 1.5 mbgs) were not less than 5 or greater than 9, and not less than 5 or greater than 11, respectively.
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 metres 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 commercial. There is no proposed change.
Soil texture	Fine textured soils, as determined by the borehole logs and grain size analysis completed as part of the geotechnical assessment (this was completed concurrent with the Limited Phase II ESA), 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 were 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 borehole generally consisted of sand fill to 0.6 mbgs overlying silty clay to the maximum depth of assessment of 5.2 m bgs. Asphalt was observed above the sand silt.					
Soil vapour concentrations	CV: 5 ppmv to 50 ppmv					
	OV: not detected (0 ppmv) to 2 ppmv					
Visual evidence of impact (e.g., staining or free product)	None observed					

#### 5.2 Groundwater

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

Groundwater levels	3.27 mbgs in BH 4; MW7 was dry.							
Inferred groundwater direction	The site-specific groundwater flow direction was not measured due to limited data (i.e., at least three data points are needed to triangulate when contouring groundwater flow).							
	Based on the Site topography, the local groundwater flow direction is presumed to be to the north/northeast, towards Ottawa River.							
Subsurface vapour	CV: Not detected (0 ppmv)							
concentrations measured in monitoring wells	OV: not detected (0 ppmv)							
Free product (LNAPL and DNAPL)	Not detected.							

It should be noted that the groundwater table fluctuates seasonally, and groundwater depths are based on short term monitoring. The reported water level applies on the date of monitoring. Water levels can change with the passage of time due to various factors including precipitation, surface runoff, seasonal variability, variation in aquifer recharge or discharge, and changes made to surface or subsurface features.

# 6.0 Analytical Results

The groundwater analytical results are presented and compared to the applicable MECP Table 3 SCSs in **Table 2**. The laboratory certificates of analysis are present as **Appendix C**.

#### 6.1 Groundwater

The groundwater laboratory results met the applicable MECP Table 3 SCSs.

# 6.2 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 C**. The analyses included extraction surrogate recovery, method blanks, matrix duplicates, spiked blank, relative percentage difference (RPD), 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 groundwater monitoring and sampling assessment findings presented in this report.



# 7.0 Findings

During the limited Phase II ESA, one borehole was advanced and one monitoring well was installed in the borehole. At the time of sampling, the well was dry. Therefore, a groundwater sample was collected from an existing well and submitted for laboratory analysis of BTEX, and PHC fractions F1 to F4.

The results of the assessment are summarized as follows:

- Stratigraphy and soil observations: The stratigraphic profile encountered with increasing depth in the borehole generally consisted of sand fill to 0.6 mbgs overlying silty clay to the maximum depth of assessment of 5.2 mbgs.
- **Groundwater depth and flow direction:** 3.27 mbgs. The inferred groundwater flow direction was not measured due to limited data.
- Free product (LNAPL and DNAPL): was not detected during monitoring of the well.
- **Site Condition Standards:** The MECP full depth generic site condition standards in a non-potable groundwater condition (Table 3) for industrial/commercial/community property use, medium and fine textured soils, were selected for comparison with the groundwater analytical results.
  - Groundwater analytical results: met the applicable Table 3 SCSs.

#### 8.0 Discussion

The objective of this Limited ESA was to assess groundwater in one area of the Site for PCOCs related to the adjacent RFO.

The groundwater laboratory results met the applicable MECP Table 3 SCSs. Based on the data, in our opinion, no further assessment work is warranted at this time.



# 9.0 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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Report Reviewed by:

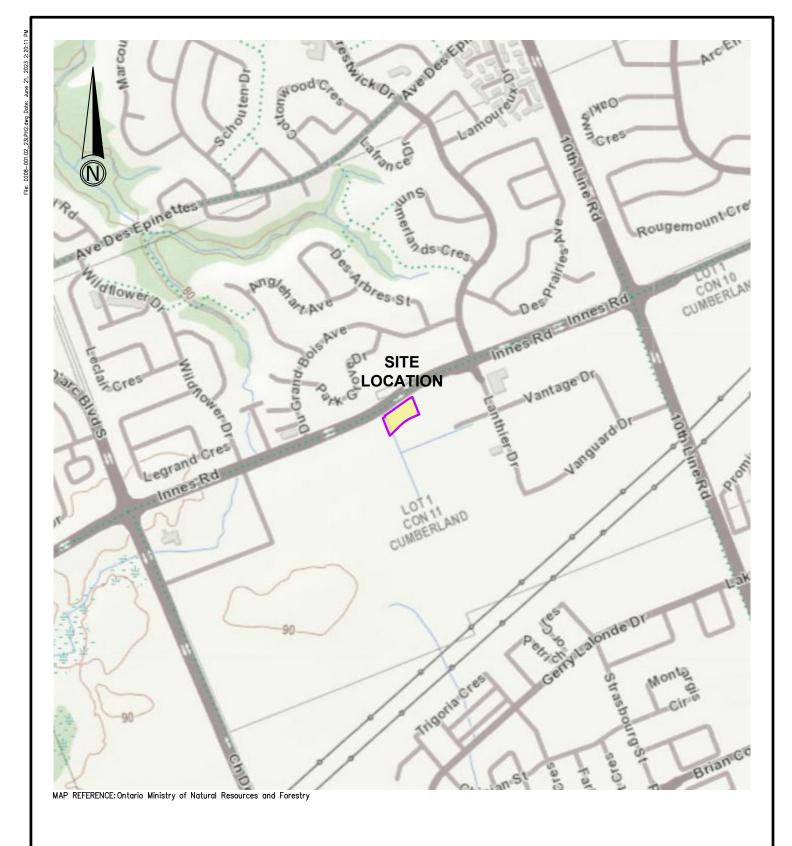
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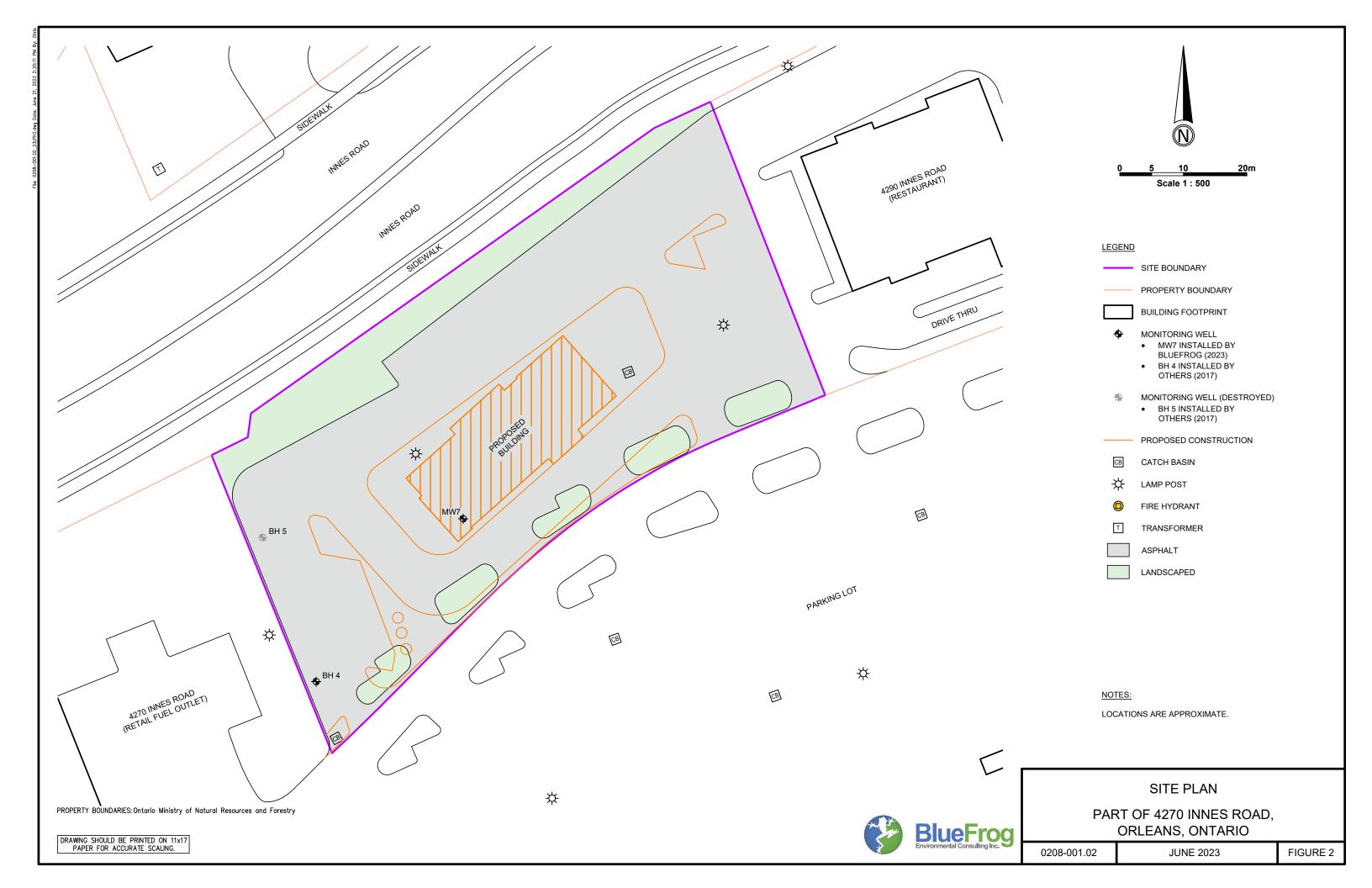
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SITE LOCATION MAP

PART OF 4270 INNES ROAD, ORLEANS, ONTARIO

0208-001.02 JUNE 2023 FIGURE 1





**Table 1: Groundwater Monitoring Well Details and Results** 

Assessment Location	Top of Pipe Elevation <sup>1</sup> (m)	Ground Surface Elevation <sup>1</sup> (m)	Screen Interval (mbgs)	Date (yyyy/mm/dd)	Vap	urface oour atration <sup>2</sup>	Free Product Thickness <sup>3</sup> (mm)	Potentiometric Depth (mbgs)	Potentiometric Elevation <sup>1</sup> (m)	
	, ,				(CV)	(OV)	, ,		. ,	
BH4	99.19	99.24	4.6 - 6.1	2023-05-12	ND	ND	ND	3.27	95.97 *	
BH7/MW7	99.38	99.47	2.1 - 5.2	2023-05-12	ND	ND	DRY	DRY	DRY	

#### Notes:

1 - Elevation relative to a local benchmark, fire hydrant on Innes Road, of 100 m

2 - ppmv unless otherwise indicated

mbgs- metres below ground surface

mm - millimetres

ND - Not detected

CV - Combustible vapours

OV - Organic Vapours



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**Table 2: Groundwater Analytical Results** 

	<i>,</i> ,	
Sample Location:	MECP <sup>1</sup>	BH4
Sample ID:		BH4
Sampling Date (yyyy-mm-dd):	Table 3 <sup>2</sup>	2023-05-12
BTEX		
Benzene	430	<0.20
Toluene	18000	<0.20
Ethylbenzene	2300	<0.20
Total Xylenes	4200	<0.20
Petroleum Hydrocarbons (PHCs)		
F1 (C6-C10) - BTEX	750	<25
F2 (C10-C16)	150	<100
F3 (C16-C34)	500	<200
F4 (C34-C50)	500	<200
Reached Baseline at C50	-	Yes
BOLD	Deput to a verse a disease the second	- l' l- l 4 l l -

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 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for All Types of Property Use in Medium and Fine Textured Soils.

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



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Appendix A
Borehole Logs

# **BOREHOLE LOG**

PRO	OJECT: Limited Phase II Environmental Si	te As	sse			OKEN' nt		Т			IO.:	0208	3-00	1.02			ВС	REHOLE NO: MV	V7	
	CATION:4270 Innes Road, Orleans, Ontar											/.:99.						ART DATE:5/10/23		
CLI	ENT: Chick-fil-a							$\perp$	GR	ADI	ΕE	LEV.	:99.	47m			СО	MPLETION DATE:5	/10/2	3
BEN	NCHMARK:Local benchmark, top of fire hy	drar	nt o	n lı	nne	s Road.											PA	GE 1 OF 1		
Depth (m) Water Level	DESCRIPTION STRATIGRAPHY	SYMBOL	NUMBER	SAMPLE TYPE	"N" VALUE	SAMPLING  SAMPLE  LAB ANA	NAME /	CON	MBUS	NIC V CENTF (ppmv TIBLE ENTF (ppmv	RATIC /) E VAF RATIC /)	ON POUR ON		CON	STIBLE CENTR. (% LEL	ATION .)	١	COMMENTS AND MONITORING WELL NOTES	MONITORING WELL	Depth (ft) Water Level
	ASPHALT		1					ΤĬ	1				Ħ				<u>,                                    </u>			E
- - - -	damp ) i	0000	1 5	ss :	28 3	7	2		 											1 2
- - 1 - -	CLAY - brown, silty, moist		2 \$	SS ·	12 6	7	2	15	++		 						+			3
- - - - - - -	- grey below 1.5m		3 5	SS	8 5	4	ND P										<u>-                                    </u>			5 
- - - - -			4 5	SS	3 6	7	ND T	       40   -   —     	   											8 9
-3 -    			5 \$	6S	0 10	000	ND P	50		L L 							<del> </del>	Monitoring well dry on May 11, 2023.	. 🗀.	10 10 10 10 10 10 10 11 11 11 11 11 11 1
- -4 - - - -			6	SS	0 10	00	ND ND				 							Monitoring Well Installed, Screened from 2.1 to 5.2m		13
- - - - - 5	END OF PODELIOLE AT 5.2m		7 5	SS	0 10	000	2													15
	END OF BOREHOLE AT 5.2m																			
						BY: BR	EQUIPME											IGHTING: n/a		
	Blue Frog Environmental Consulting Inc.					ED BY: NM D BY: AD		METHOD: Hollow Stem Augering GAS METER TYPE: RKI Eagle 2						WELL DIAMETER: 51mm BOREHOLE DIAMETER: 210mm						

Appendix B Well Record

Ontario 🕅 Ministry of the Environment, Well Record Well Tag No. (Place Sticker and/or Print Below) Conservation and Parks Regulation 903 Ontario Water Resources Act A370815 Measurements recorded in: Metric | Imperial Page Well Owner's Information Last Name/Organization E-mail Address ▼ Well Constructed PATRICK MCNAMARA / CHOICE PROPERTIES REIT Patrick, McNamara @choice reitra Province Postal Code Telephone by Well Owner Mailing Address (Street Number/Name) Telephone No. (inc. area code) M417215156474117116012 700-22 ST CLAIR AVE. E. ON TORONTO **Well Location** Concession Address of Well Location (Street Number/Name) Township Lot 4270 INNES ROAD County/District/Municipality City/Town/Village Postal Code Province Ontario ORLEANS
Municipal Plan and Sublot Number Other UTM Coordinates Zone , Easting Northing NAD 8 3 1 8 4 6 1 3 5 4 5 0 3 4 2 5 9 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Description Most Common Material Other Materials CLAY 5.18 0 **Results of Well Yield Testing Annular Space** Type of Sealant Used (Material and Type) Volume Placed After test of well yield, water was Draw Down Recovery Depth Set at (m/ft) From To Time (m3/ft3) Water Level ☐ Clear and sand free Water Level Time Other, specify 1.83 BENTONITE Statio If pumping discontinued, give reason: 1 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (I/min / GPM) Method of Construction Well Use 4 ☐ Public Commercia ☐ Not used **Duration of pumping** Rotary (Conventional) ☐ Jetting □ Domestic Municipal Dewatering 5 5 hrs + ☐ Driving Livestock Test Hole Rotary (Reverse) Monitoring ☐ Irrigation □ Digging ☐ Cooling & Air Conditioning Final water level end of pumping (m/ft) Boring 10 10 Air percussion Industrial H SA Other, specify Other, specify 15 15 If flowing give rate (I/min/GPM) Construction Record - Casing Status of Well 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Inside Diamete (cm/in) Wall Depth (m/ft) Recommended pump depth (m/ft) Replacement Well 25 25 To From (cm/in) Test Hole Recommended pump rate (I/min/GPM) 30 30 Recharge Well 5.08 0,1 PVC SCHED 40 ☐ Dewatering Well 40 40 Observation and/or Monitoring Hole Well production (I/min/GPM) 50 50 ☐ Alteration Disinfected? (Construction) 60 60 Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Water Quality Outside Material (Plastic, Galvanized, Steel) Diamete (cm/in) Slot No. Abandoned, other, From specify 5.18 5.88 2.13 PVC 10 Other, specify **Water Details Hole Diameter** Water found at Depth Kind of Water: ☐ Fresh ☐ Untested Depth (m/ft) Diameter DRY (m/ft) Gas Other, specify 5-18 20.3 Water found at Depth Kind of Water: Fresh Untested 0 (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested Other, specify (m/ft) Gas Well Contractor and Well Technician Information uperstor Business Name of Well Contractor Well Contractor's Licence No GEORGE DOWNING ESTATE DRILLING LTD Business Address (Street Number/Name) 410 RVE PRINCIPALE GRENVILLE 1 8 Municipality Comments 410 RVE GRENVILLE-SUR-LA-ROUGE Business E-mail Address Province Postal Code QC JØVIB nto forege downing drilling. com Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) Ministry Use Only Date Package Delivered Well owner's information Audit No. **Z415599** package delivered Y Y Y Y M M D D 8192426469 ST ONGE, MARC Date Work Completed Yes X No 2023050

2176

20230810

# Appendix C Laboratory Certificates of Analysis



Your P.O. #: 0208-001.02 Your Project #: 0208-001.02 Site Location: 4270 INNER ROAD

Your C.O.C. #: N/A

**Attention: Nawshad Mohsin** 

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

Report Date: 2023/05/23

Report #: R7640313 Version: 1 - Final

#### **CERTIFICATE OF ANALYSIS**

BUREAU VERITAS JOB #: C3D9058 Received: 2023/05/16, 13:24

Sample Matrix: Water # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	<b>Laboratory Method</b>	Analytical Method
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2023/05/22	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2023/05/18	2023/05/18	CAM SOP-00316	CCME PHC-CWS 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, MELCCFP, 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. #: 0208-001.02 Your Project #: 0208-001.02

Your C.O.C. #: N/A

Site Location: 4270 INNER ROAD

**Attention: Nawshad Mohsin** 

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

Report Date: 2023/05/23

Report #: R7640313 Version: 1 - Final

# **CERTIFICATE OF ANALYSIS**

BUREAU VERITAS JOB #: C3D9058 Received: 2023/05/16, 13:24

**Encryption Key** 

Please direct all questions regarding this Certificate of Analysis to:

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.

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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Client Project #: 0208-001.02 Site Location: 4270 INNER ROAD

Your P.O. #: 0208-001.02 Sampler Initials: BR

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

Bureau Veritas ID		VVB537			VVB537		
Sampling Date		2023/05/12 08:05			2023/05/12 08:05		
COC Number		N/A			N/A		
	UNITS	BH4	RDL	QC Batch	BH4 Lab-Dup	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/L	<0.20	0.20	8677916	<0.20	0.20	8677916
Toluene	ug/L	<0.20	0.20	8677916	<0.20	0.20	8677916
Ethylbenzene	ug/L	<0.20	0.20	8677916	<0.20	0.20	8677916
o-Xylene	ug/L	<0.20	0.20	8677916	<0.20	0.20	8677916
p+m-Xylene	ug/L	<0.40	0.40	8677916	<0.40	0.40	8677916
Total Xylenes	ug/L	<0.40	0.40	8677916	<0.40	0.40	8677916
F1 (C6-C10)	ug/L	<25	25	8677916	<25	25	8677916
F1 (C6-C10) - BTEX	ug/L	<25	25	8677916	<25	25	8677916
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	8672071			
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	8672071			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	8672071			
Reached Baseline at C50	ug/L	Yes		8672071			
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	105		8677916	104		8677916
4-Bromofluorobenzene	%	93		8677916	96		8677916
D10-o-Xylene	%	100		8677916	98		8677916
D4-1,2-Dichloroethane	%	107		8677916	107		8677916
o-Terphenyl	%	93		8672071			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



Client Project #: 0208-001.02 Site Location: 4270 INNER ROAD

Your P.O. #: 0208-001.02 Sampler Initials: BR

#### **TEST SUMMARY**

Bureau Veritas ID: VVB537

Collected: 2023/

2023/05/12

Sample ID: BH4 Matrix: Water Shipped:

**Received:** 2023/05/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8677916	N/A	2023/05/22	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8672071	2023/05/18	2023/05/18	Ksenia Trofimova

Bureau Veritas ID: VVB537 Dup Sample ID: BH4

Matrix: Water

**Collected:** 2023/05/12

Shipped:

**Received:** 2023/05/16

 Test Description
 Instrumentation
 Batch
 Extracted
 Date Analyzed
 Analyst

 Petroleum Hydro. CCME F1 & BTEX in Water
 HSGC/MSFD
 8677916
 N/A
 2023/05/22
 Lincoln Ramdahin



Client Project #: 0208-001.02 Site Location: 4270 INNER ROAD

Your P.O. #: 0208-001.02 Sampler Initials: BR

#### **GENERAL COMMENTS**

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

Package 1 0.3°C

Results relate only to the items tested.



Client Project #: 0208-001.02 Site Location: 4270 INNER ROAD

Your P.O. #: 0208-001.02 Sampler Initials: BR

# **QUALITY ASSURANCE REPORT**

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8672071	KTR	Matrix Spike	o-Terphenyl	2023/05/18		100	%	60 - 130
		•	F2 (C10-C16 Hydrocarbons)	2023/05/18		103	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2023/05/18		105	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2023/05/18		105	%	60 - 130
8672071	KTR	Spiked Blank	o-Terphenyl	2023/05/18		105	%	60 - 130
0072072		opined sidim	F2 (C10-C16 Hydrocarbons)	2023/05/18		112	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2023/05/18		119	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2023/05/18		116	%	60 - 130
8672071	KTR	Method Blank	o-Terphenyl	2023/05/18		100	%	60 - 130
0072071		Wiceriou Blank	F2 (C10-C16 Hydrocarbons)	2023/05/18	<100	100	ug/L	00 130
			F3 (C16-C34 Hydrocarbons)	2023/05/18	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2023/05/18	<200		ug/L	
8672071	KTR	RPD	F2 (C10-C16 Hydrocarbons)	2023/05/18	NC		%	30
0072071	KII	NI D	F3 (C16-C34 Hydrocarbons)	2023/05/18	3.9		%	30
			F4 (C34-C50 Hydrocarbons)	2023/05/18	NC		%	30
8677916	LRA	Matrix Spike [VVB537-02]	1,4-Difluorobenzene	2023/05/22	140	101	%	70 - <b>1</b> 30
0077310	LIVA	Width Spike [VVD557-02]	4-Bromofluorobenzene	2023/05/22		101	%	70 - 130
			D10-o-Xylene	2023/05/22		106	%	70 - 130
			D4-1,2-Dichloroethane	2023/05/22		108	%	70 - 130
			Benzene	2023/05/22		103	%	50 - 140
			Toluene	2023/05/22		96	%	50 - 140
			Ethylbenzene	2023/05/22		108	%	50 - 140
			o-Xylene	2023/05/22		108	%	50 - 140
			p+m-Xylene	2023/05/22		104	%	50 - 140
			F1 (C6-C10)	2023/05/22		113	%	60 - 140
8677916	LRA	Spiked Blank	1,4-Difluorobenzene	2023/05/22		98	% %	70 - 130
8077310	LIVA	эрікей Біатік	4-Bromofluorobenzene	2023/05/22		103	%	70 - 130
			D10-o-Xylene	2023/05/22		100	% %	70 - 130
			D4-1,2-Dichloroethane	2023/05/22		99	% %	70 - 130 70 - 130
			·	2023/05/22		96	% %	
			Benzene Toluene			96 89	% %	50 - 140
				2023/05/22 2023/05/22				50 - 140 50 - 140
			Ethylbenzene			104	%	
			o-Xylene	2023/05/22		100	%	50 - 140
			p+m-Xylene	2023/05/22		97 104	%	50 - 140
0.67701.6	104	Mathad Dlaul	F1 (C6-C10)	2023/05/22		104	%	60 - 140
8677916	LRA	Method Blank	1,4-Difluorobenzene	2023/05/22		104	%	70 - 130
			4-Bromofluorobenzene	2023/05/22		94	%	70 - 130
			D10-o-Xylene	2023/05/22		99	%	70 - 130
			D4-1,2-Dichloroethane	2023/05/22	.0.20	101	%	70 - 130
			Benzene	2023/05/22	<0.20		ug/L	
			Toluene	2023/05/22	<0.20		ug/L	
			Ethylbenzene	2023/05/22	<0.20		ug/L	
			o-Xylene	2023/05/22	<0.20		ug/L	
			p+m-Xylene	2023/05/22	<0.40		ug/L	
			Total Xylenes	2023/05/22	<0.40		ug/L	
			F1 (C6-C10)	2023/05/22	<25		ug/L	
			F1 (C6-C10) - BTEX	2023/05/22	<25		ug/L	
8677916	LRA	RPD [VVB537-02]	Benzene	2023/05/22	NC		%	30
			Toluene	2023/05/22	NC		%	30
			Ethylbenzene	2023/05/22	NC		%	30



Client Project #: 0208-001.02

Site Location: 4270 INNER ROAD

Your P.O. #: 0208-001.02 Sampler Initials: BR

# QUALITY ASSURANCE REPORT(CONT'D)

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			o-Xylene	2023/05/22	NC		%	30
			p+m-Xylene	2023/05/22	NC		%	30
			Total Xylenes	2023/05/22	NC		%	30
			F1 (C6-C10)	2023/05/22	NC		%	30
			F1 (C6-C10) - BTEX	2023/05/22	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).



Client Project #: 0208-001.02 Site Location: 4270 INNER ROAD

Your P.O. #: 0208-001.02 Sampler Initials: BR

#### **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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

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 - 00014v3

Page \_\_1\_\_ of \_\_1\_\_

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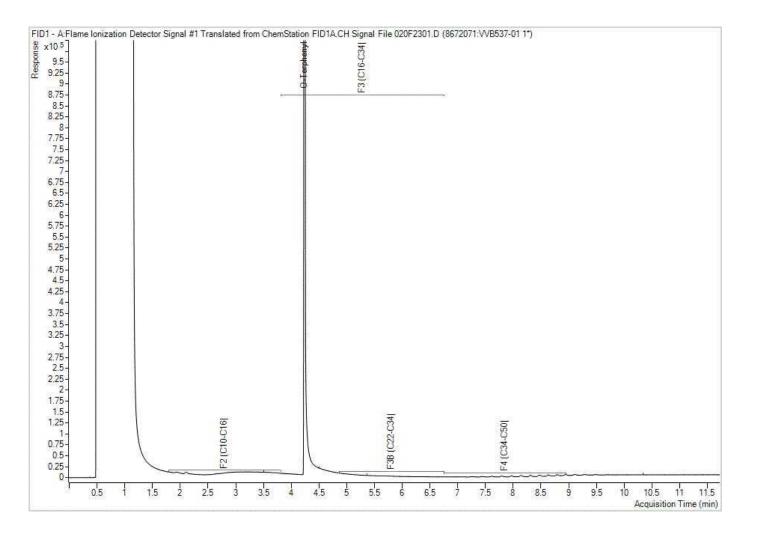
Bureau Veritas Job #: C3D9058 Report Date: 2023/05/23 Bureau Veritas Sample: VVB537

BLUEFROG ENVIRONMENTAL CONSULTING INC.

Client Project #: 0208-001.02 Project name: 4270 INNER ROAD

Client ID: BH4

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.