August 21, 2024

Mr. Jean-Philippe Wilkins

Harnois Groupe immobilier inc. Director, Operations and Real Estate Development 80, route 153 Saint-Thomas (QC) J0K 3L0

Subject: Phase II Environmental Site Assessment (ESA)

Property located at 1660 Merivale Road, Nepean, Ottawa, ON

Reference Number: HARN1660P2

Mr. Wilkins,

We are pleased to present this Phase II Environmental Site Assessment report, conducted for the property located at 1660 Merivale Road, Nepean, Ottawa, Ontario.

We trust this report meets your expectations. Should you have any questions or require further information, please feel free to contact our team, who will be more than pleased to assist you.

Sincerely,

Mathieu Bélisle, eng., M. Sc.A., P.Eng Project Manager Groupe C. Laganière (1995) inc. 514.452.5718.





PHASE II ENVIRONMENTAL SITE ASSESSMENT



PHASE II ENVIRONMENTAL SITE ASSESSMENT

Property located at 1660 Merivale Road, Nepean, Ottawa, Ontario.

Part of Lot 30, Concession 1 of Rideau Front

Privileged and Confidential Document presented to:

Harnois Groupe Immobilier inc.

Prepared and verified by:

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Gestionnaire de projets

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Approved by:

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Executive Director – CEME Groupe C. Laganière (1995) inc.

Reference Number: HARN1660P2

REVISIONS FOLLOW-UP								
Revision	Date	Description	Prepared by Verified by					

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EXECUTIVE SUMMARY

The property under study is occupied by a gas station with a convenience store and a car wash. As part of a project to be submitted to the City, Phase I and II Environmental Site Assessments (ESAs) are required. The intent of these assessments is not to register a Record of Site Condition.

Groupe C. Laganière (1995) inc. (hereafter "GCL") has been commissioned by Harnois Groupe Immobilier inc. (hereafter "Harnois"), the owner of the Site, to conduct a Phase II ESA on the property located at 1660, Merivale Road, Nepean, Ottawa, Ontario (hereafter "the Site"). This report is in accordance with the service proposal dated June 6, 2024. (Reference Number: 2024-126-CE-REV2).

The objective of the mandate is to verify the risks of potential or actual contamination at the site that were identified by the Phase I ESA.

This mandate follows up on the recommendations issued in the Phase I ESA conducted by GCL (Reference Number: HARN1660P1) between June and August 2024, which identified the following environmental risk areas:

Risk #	Risk Identification	Area (m²)	Analytical Parameters
1	Underground storage tanks in the northeast corner of the site probably since the 1960s	150	BTEX, PH F1 to F4, Ha, Pb
2	Pump islands north of the store since 1984	250	BTEX, PH F1 to F4, Ha, Pb
3	Underground pipes connecting the pump islands and the underground tanks	200	BTEX, PH F1 to F4, Ha, Pb
4	Former pump islands north and east of the store from the 1960s to 1984	2x 50	BTEX, PH F1 to F4, Ha, Pb
5	Former mechanical garage west of the store from the 1960s to 1984	175	BTEX, PH F1 to F4, Ha, PAH, MTX
6	Carwash in the south section since 1984	125	BTEX, PH F1 to F4, Ha, PAH, MTX
7	BTEX, PH F1-F4, Ha and locally Pb contamination in groundwater	-	BTEX, PH F1-F4, Ha and/or Pb



Fieldwork was conducted from July 8 to July 11, 2024, under the supervision of a GCL certified technician. This work included drilling eight boreholes and sampling groundwater from the wells found on site in good condition.

The Phase II ESA highlights that:

- + All soil samples analysis results were below Table 3 Standards.
- + Groundwater sample analysis results were below Table 3 Standards in wells MW15-01, MW15-02, TH3 and TH7.
- + One groundwater sample result (F2, 590 ppb) was above Table 3 Standards in well 23F01. This concentration represents a decrease compared to TH5's last (2022) analytical results (3500 ppb), located in the vicinity of this well.
- + Other existing wells could not be sampled due to their poor condition (e.g. presence of sediments, or blocked). Some of these wells had contamination levels exceeding Table 3 Standards in previous groundwater monitoring reports.

Based on the results obtained, the environmental quality of the soils at the sample locations meets the Table 3 Standards.

However, given that petroleum equipment is still present on the site, it is recommended to conduct an additional environmental characterization campaign for the soils found at the bottom and on the walls of the excavation, upon the removal of these equipment.

Additionally, groundwater contamination is present both on and off the Site according to previous reports. It is recommended to continue the annual groundwater monitoring program along with the TSSA, using both existing and new wells. The damaged wells should be replaced to ensure a complete and accurate TSSA groundwater monitoring program. New wells should be constructed to intercept the groundwater interface to effectively capture LNAPL, if applicable.



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LIST OF ACRONYMS

APEC Areas of Potential Environmental Concern ANSI Areas of Natural and Scientific Interest BTEX Benzene, Toluene, Ethylbenzene, Xylenes **CMP Contamination Management Plans CSA** Canadian Standard Association EPA **Environmental Protection Act** ESA **Environmental Site Assessment** F1 to F4 Petroleum Hydrocarbons F1 to F4 GCL Groupe C. Laganière (1995) inc.

Ha Hexane

NRC Natural Resources of Canada

MAH Monocyclic Aromatic Hydrocarbons

MECP Ministry of the Environment, Conservation and Parks of Ontario

MM Ministry of Mines of Ontario

MTX Metals and Metalloids

O.Reg 153/04 Ontario Regulation 153/04 – Records of Site Conditions

PAH Polycyclic Aromatic Hydrocarbons

Pb Lead

PCA Potentially Contaminating Activities

TSSA Technical Standards and Safety Authority

VOC Volatile Organic Compounds



1. INTRODUCTION

1.1 Context

The property is occupied by a gas station with a convenience store and a car wash. As part of a project to be submitted to the City, the conduction of Phase I and II Environmental Site Assessments (ESAs) is required. These assessments are not intended to register a Record of Site Condition.

1.2 Mandate and Objective

Groupe C. Laganière (1995) inc. (hereafter "GCL") has been commissioned by Harnois Groupe Immobilier inc. (hereafter "Harnois"), the owner of the Site, to conduct a Phase II ESA on the property located at 1660, Merivale Road, Nepean, Ottawa, Ontario (hereafter "the Site"). This is in accordance with the service proposal dated June 6, 2024, (Ref No: 2024-126-CE-REV2).

The objective of the mandate is to verify the risks of potential or actual contamination at the site that were identified by the Phase I ESA.

The Phase II ESA was conducted following the standard methodologies outlined in Ontario Regulation 153/04 (O.Reg. 153/04) – Record of Site Condition – Part XV.I of the Environmental Protection Act (EPA) and in the Canadian Standard CSA-Z769-00 – Phase II Environmental Site Assessment.

Appendix 8 outlines the limitations and general conditions related to the completed study.

1.3 Site Description

Table 1 below provides a general description of the site. The general location of the site is illustrated in Figure 1 of Appendix 1. For the purposes of this study, Merivale Road is oriented in a north-south axis.

Table 1 : Description of the Property

Site Address	1660 Merivale Road, Nepean, Ottawa, Ontario (hereafter the site)					
Geographical Coordinates of the Land	Lat.: 45,343350					
ocographical coordinates of the Earla	Long.: -75,729600					
Lot Number	Part of Lot 30, concession 1 of Rideau Front					
Land Area (m²)	1 968,10 m ²					
Landowner	Harnois Groupe immobilier Inc. (hereafter Harnois)					
	+ Commercial:					
Land Occupants	 Proxy 					
	Esso Gas Station					
Current Use	+ Commercial (Gas station, convenience store, carwash)					
Projected Future Use	+ Commercial (Gas station, convenience store, carwash)					
Municipal Zoning	AM10 (Arterial Mainstreet Zone)					
Permitted Uses	+ Commercial					
Permitted Oses	+ Residentials					



Description of the Land	 Convenience store in the middle Carwash in the south section Gas pump to the north of the store Underground storage tanks in the northeast corner
	 Paved parking and circulation areas around the buildings
	South and west limits: fenced
Site boundaries	South section trees
	North and east: open area
Building Construction Date	1984
Building Modification Date	No major modification
Current and Previous Heating Methods	Electric and natural gas
Drinking Water Supply	Aqueduct
Wastewater Treatment System	Municipal sewer

1.4 Adjacent Properties

The site is located at the southwest corner of the intersection of Merivale Road and Viewmount Drive. It is surrounded by a mix of commercial, residential and public sites. The adjacent properties are as follows:

- + North: Viewmount Drive followed by a parking lot and a commercial mall;
- + South: Residential buildings;
- + East: Merivale Road followed by a school:
- + West: Glenmanor Drive followed by residential buildings.

The zoning by-laws for the adjacent properties are as follows:

- + Residential to the west (R2M) and southwest (R1FF);
- + Mixt commercial and residential to the southeast (AM10[2205]) and to the north (AM10[2676]);
- + Institutional to the east (I1A[409]).



2. SITE CONDITION STANDARD

The information obtained from previous studies and from the Phase II ESA fieldwork was reviewed to determine the applicable standard based on the criteria defined by O.Reg. 153/04. The main decisive points for defining the applicable standard are as follows:

2.1 Site Sensitivity

- + The site and the area within 30 meters of the site are not part of an area of natural significance.
- + The surface soil of the property has a pH within the range of 5-9, and the sub-surface soil has a pH within the range of 5-11.
- + No qualified person considers the site to be a sensitive area.

2.2 Water Body

No water bodies are present within a 30-meter radius of the site.

2.3 Groundwater

- + The area within a 250-meter radius of the site is serviced by the Ottawa municipal water supply.
- + The site is not located within a groundwater protection area.
- + The site is situated in a non-potable groundwater condition.

2.4 Shallow soil

+ Based on the borehole logs from various studies on site, at least two/thirds of the site has soil depth of over 2 meters before reaching the bedrock.

2.5 Soil texture

+ Based on the borehole logs from various studies on site, the majority of the soils are finetextured.

2.6 Property use

- + The site is currently used for commercial purpose.
- + According to information from the owner, the site is planned to continue being used commercially in the future.

2.7 Applicable Standard

Based on these observations and the criteria from O.Reg 153/04, Table 3 Standards for industrial/commercial/community property use and medium to fine-textured soils are appropriate for the site.



3 PREVIOUS STUDIES

The Phase I ESA identified additional studies conducted on site between 2011 and 2024, which are detailed in the Phase I report. A summary of the main observations is provided here.

3.1 Topography, Geology, Hydrogeology

The site is situated in an area with a general slope descending from north to south, then southeast towards Nepean Creek, which is located approximately 360 meters southeast of the site. This creek eventually joins the Rideau Canal to the east.

According to a topographic plan by VRSB Arpenteurs-Géomètres (VRSB), there is a slight elevation change from the northeast corner, at an elevation of approximately 87.8 meters, descending to the southwest corner of the pavement at an elevation of 86.5 meters. A more pronounced slope is observed south of the carwash, where the elevation drops from 86.5 meters to 85.3 meters.

The bedrock on site is composed of limestone, encountered at depths ranging from 2.7 meters to more than 5.49 meters below ground surface (BGS). The surficial deposits consist of sand and gravel, likely backfill material, from 1 to 2 meters BGS, followed by brown to grey silt till.

Groundwater flow on site generally moves from northeast to southwest. The groundwater level is typically around the interface of the bedrock and the surface soils or within the bedrock, at depths varying between 2.3 meters and 5.0 meters BGS.

3.2 Soil and Groundwater Environmental Quality on Site

In summary, according to the previous studies listed, no soil contamination above Table 3 Standards for the parameters BTEX, PH F1 to F4, Ha, MTX and/or PAH was detected. Historical groundwater quality exceeded Table 3 standards in the following wells:

- + TH1 (2020): F2 to F4
- + TH3 (2011 to 2014 and 2021): F1 and F2
- + TH4 (all years): BTEX, Ha, F1 to F3, Pb (2018 only), light non aqueous liquid phase (LNAPL) in 2021
- + TH5 (all years): BTEX, Ha, F1 to F4, Pb (2020 an 2021 only), LNAPL in 2022
- + TH7 (2014 to 2017): BTEX, F1 and F2
- + MW15-02 (2015 and 2016): BTEX, F1 and F2

No concentrations above Table 3 Standards were detected in wells TH2, TH6, MW16-01, MW21-01 and MW21-02.

Additionally, soil vapor monitoring probes were sampled for BTEX/VOC measurements, with all results being below the selected standards. Sampling points were located at the east, west and south limits of the Site.



4 SCOPE OF THE INVESTIGATION

4.1 Overview of the site investigation

The objective of this Phase II ESA was to evaluate subsurface environmental conditions in the risk areas identified in the Phase I ESA. The site investigation included the following activities:

- + Drilling of eight boreholes in or around the risk zones
- + Continuous soil sampling in the boreholes
- + Inspection of the existing wells
- + Monitoring of groundwater levels
- + Sampling groundwater from the wells in good conditions

No wells were installed during this study.

4.2 Phase I Conceptual Model

The Phase I conceptual model identified the following potential sources of contamination

- Underground storage tanks in the northeast corner of the site since the 1960s
- + Pump islands north of the store since 1984
- + Underground pipes connecting the pump islands and the underground tanks
- Former pump islands north and east of the store from the 1960s to 1984
- + Former mechanical garage west of the store from the 1960s to 1984
- + Carwash in the south area since 1984
- BTEX, PH F1-F4, Ha and locally Pb contamination in groundwater

The potential contaminants of concern identified were:

- BTEX
- + F1 to F4
- + Ha
- + PAH and/or
- + MTX



5. INVESTIGATION METHOD

The site investigation was conducted between July 8, 2024 and July 11, 2024 by a GCL certified environmental technician. It involved drilling eight boreholes for soil sampling, inspecting the existing wells and sampling groundwater from wells in good condition. No groundwater samples were collected from damaged wells, and no new groundwater wells were installed. Private underground infrastructure location work was carried out by *Softex*, while drilling operations were performed by *George Downing Estate Drilling Limited* using a Geoprobe 6622 drilling machine.

A photographic report is included in Appendix 5.

5.1 Underground Infrastructures

A detection request for the location of underground public services (electricity, natural gas, telecom, sewer, aqueduct, etc.) was made on June 6, 2024. This request confirmed the presence of a natural gas line southwest of the carwash and electrical infrastructure northwest of the site, south of the store, and east of the carwash.

In addition, *Softex* conducted further investigations on July 8, 2024, to locate private underground infrastructure. These investigations identified underground electrical wires and potential water and sewer pipes in various sections of the site.

These results were compared with infrastructure site plans from 1984 provided in the previous studies. Boreholes were positioned at a safe distance from any detected infrastructure and from those shown on the site plans.

5.2 Drilling Investigation

The drilling investigation was performed on July 9, 2024, using a Geoprobe 6622 equipped with 1.2-meter long single-use plastic sample tubes for environmental sampling. The boreholes were drilled until refusal on possible bedrock at depths ranging from 3.0 to 3.6 meters. The boreholes were backfilled with sand or gravel, and the surface was finished with cold asphalt in paved areas.

The location of each drilling was measured relative to existing infrastructure. Figure 2 of Appendix 1 shows the locations of the drilled boreholes.

5.3 Soil Characterization and Sampling

Before sampling, all sampling equipment was decontaminated using Alconox soap and deionized water spray between each sample.

Soil samples were collected directly from the single-use sampling tubes of the Geoprobe. A continuous sampling was conducted for each borehole. Composite soil samples were collected from each stratigraphic layer encountered, up to a maximum length of 0.6 meters. Stratigraphic and physical evidence of contamination descriptions were noted from the sampling tubes. A total of 57 soil samples and 7 field duplicates were collected.

Except for samples taken for volatile organic compound (VOC) analysis, composite soil samples were collected manually using single-use nitrile gloves, which were changed between samples. Soil samples for VOC analysis were collected punctually using a Terra Core syringe and transferred directly into laboratory-prepared methanol-containing vials.



The samples were examined to describe the nature and composition of the different layers encountered, the nature of the debris present in the backfill (when applicable), and any relevant additional information (e.g. color, odor, water content, compaction). The stratigraphic description for each borehole is presented in Appendix 4. Note that this description is based solely on visual observations made on site in the for an environmental characterization and does not correspond to a geotechnical interpretation.

After sampling, VOC field measurements were performed on each sample using an Eagle 2 gas monitor. The results are presented in the borehole logs in Appendix 4.

5.4 Groundwater Sampling

5.4.1 Well Condition Inspection

A visual inspection of the wells installed on site during previous studies was conducted on July 8, 2024. It was noted that some wells had the cap removed (TH6) and/or were partially filled with sediments due to a poor surface sealing (TH1, TH2, TH4, TH5, TH6). One well had the cap blocked (MW1-22).

Therefore, groundwater characterization was conducted for existing wells considered to be in good condition and containing sufficient groundwater for sampling. Only TH3, TH7, MW15-01 and MW15-02 could be sampled during this campaign, along with a well physically identified on site as 23F01 (likely installed in 2023), located near TH5. The bottom of this well was at a depth of 3.05 meters, likely above the bedrock.

5.4.2 Groundwater Level Measurement

Groundwater levels were measured on July 8, 2024, in all accessible wells, including some considered in poor condition. Measurements were made using a Heron handheld interface probe, which measures water depth and detects and measures the LNAPL thickness, if applicable. Some LNAPL, less than 0.001 meters thick, was noted in wells TH2 and TH4. Most well elevations were obtained from the topographic plan of *VRSB* dated April 6, 2023, presented in Appendix 7, while some others were calculated from elevation differences noted in previous studies. The collected data are presented in Table 2.



Well	Condition	Elevation	Water Depth (m)	Product Depth(m)	Product Thickness (m)	Water Table Elevation (m)	
TH1	Sediments, dry	87.00	Not available (NA)	NA	NA	NA	
TH2	Sediments	87.02	3.370	3.369	<0.001	83.65	
TH3	Good	87.28	3.310	(NO)		83.97	
TH4	Sediments	87.28	3.051	3.050	<0.001	84.23	
TH5	Sediments	87.09	NA	NA	NA	NA	
TH6	Sediments, no cap, dry	86.43	NA	NA	0	NA	
TH7	Good	86.55	3.790	NO	0	82.76	
MW15- 01	Good			NO	0	82.84	
MW15- 02	Good	84.97	2.440	NO	0	82.53	
MW1-22	Blocked	87.03	NA	NA	NA	NA	
23F01	Good	87.12	2.530	NO	0	84.59	

Table 2: Groundwater Level

5.4.3 Groundwater Sampling

Groundwater sampling was conducted using the low-flow and low-drawdown purge method. A peristaltic pump with ¼" diameter HDPE tubing was employed for this purpose. A Hanna Instruments multi-parameter probe was used to measure key parameters, including temperature, pH, conductivity, dissolved oxygen, and oxidation-reduction potential. Groundwater samples were collected only when these parameters were stable, using dedicated tubing for each well. A total of five groundwater samples and one duplicate were collected. The purging water was collected in 5-gallon plastic pails and disposed of offsite at an authorized contaminated water treatment facility.

5.5 Analytical Program

The analytical program was designed based on the potential sources of contamination identified in the Phase I ESA, including current and former petroleum installations at a gas station, a former mechanical garage, and known site contamination described in Sections 3.2 and 4.2.

Thus, the selected soil samples were analyzed for a combination of the following parameters: BTEX, PH F1-F4, Ha, MTX, and/or PAH.

A total of ten (10) soil samples taken from the boreholes were analyzed. Additionally, five (5) groundwater samples were retrieved from the existing wells for analysis. The samples were analyzed by *Bureau Veritas*, a laboratory authorized by the MECP for the selected analytical parameters.



5.6 Quality Assurance/Quality Control Program

A Quality Assurance/Quality Control (QA/QC) program was implemented to minimize and verify the impact of sample collection and analytical methods on the results. This program included the analysis of control samples prepared in the field by GCL personnel and the review of the laboratory's internal quality control results.

All soil samples were placed in amber glass containers prepared by the contracted analytical laboratory, Bureau Veritas. Water samples were placed in amber glass or plastic containers with preservatives provided by the laboratory for each type of analysis requested.

Field quality control involved sampling and analyzing duplicate soil samples taken simultaneously with regular samples at a 10% ratio. For the ten soil samples submitted for analysis, one duplicate was analyzed for BTEX, F1-F4, Ha, PAH, and MTX parameters. Similarly, for the five groundwater samples submitted for analysis, one duplicate was analyzed for BTEX, F1-F4, Ha, PAH, and MTX parameters.

The laboratory implemented its own internal quality program by analyzing laboratory blanks, certified reference standards, and internal duplicates.

Selected samples taken from the site were duly identified, protected from light, and kept cool at approximately 4°C until delivery to the laboratory. Remaining samples were stored in a refrigerator and will be retained for 30 days in case further analysis is required.



6. REVIEW AND EVALUATION

6.1 Geology

The stratigraphy generally observed under the pavement consists of a 0.1 to 0.4-meter thick crushed stone layer, followed by a sand and gravel backfill material extending to depths of 1.2 to 2.0 meters BGS. This backfill material is underlain by a sandy or clayey silt with traces of gravel till, extending down to the bedrock. Boreholes were terminated upon refusal on possible bedrock at depths ranging from 3.0 to 3.6 meters BGS. Borehole logs are presented in Appendix 4 and show the stratigraphy observed at each borehole location.

6.2 Field Screening

As mentioned in Section 5.3, soil samples were screened on site for visual and olfactory impacts, and VOC field measurements were conducted. Petroleum odors were detected in boreholes BH-04, located west of the pump islands, and BH-06, located southeast of the pump islands. VOC concentrations up to 84 ppm were measured in BH-06, just above the bedrock refusal. No significant values were observed in the other boreholes.

6.3 Soil Analytical Results

Soil chemical analysis results were compared to Table 3 standards for commercial use in medium/fine textured soil. Figure 2 of Appendix 1 provides a summary of the analytical results for each category of analysis. Table A of Appendix 2 shows the analytical results compared to the standards for each parameter. The analytical certificates provided by the laboratory are presented in Appendix 6.

The analytical results indicated that all analyzed soil samples showed concentrations below the Table 3 Standards for commercial use for the selected parameters.

6.4 Ground Water Flow

Groundwater levels were measured on site, and groundwater elevation was calculated using the topographic data plan and other relative elevation data from previous studies. Groundwater levels range from 84.59 meters at well 23F01 (near TH5) to 82.53 meters at MW15-02. The general flow direction is towards the southwest. However, the highest groundwater level appears to be near well 23F01, located in the middle east of the site, with a local gradient northwest of this point. The general flow gradient towards the southwest is estimated at 0.069.

6.5 Groundwater Analytical Results

Groundwater samples were collected from wells in good condition, as mentioned in Section 5.4. These wells include TH3, TH7, MW15-01, MW15-02, and 23F01. Figure 4 of Appendix 1 shows the general classification of the analyzed groundwater samples compared to Table 3 standards. Table B of Appendix 2 displays all groundwater analytical results compared to Table 3 standards. The analytical certificates from Bureau Veritas are presented in Appendix 6.



Most of the analytical results from the collected groundwater samples were below Table 3 standards. However, the F2 concentration (590 ppb) in well 23F01 was above Table 3 standards. This concentration represents a decrease compared to TH5's last 2022 analytical results (3500 ppb), located in the vicinity of this well.

It should be noted that no groundwater samples were taken from wells considered in poor condition, and some of these wells had historically non-compliant groundwater concentrations (> Table 3 standards). These wells should be replaced to ensure a complete and accurate TSSA groundwater monitoring program.

6.6 Quality Assurance/Quality Control Results

As part of the QA/QC program, one field duplicate was analyzed for the ten soil samples tested for all parameters, and one groundwater duplicate was analyzed for the five groundwater samples. As indicated in Tables A and B of Appendix 2, the relative percentage differences (RPD) were calculated for soil samples with concentrations at least five times the reported detection limit. All RPDs are below 30% for both soil and groundwater samples, which is considered within normal variation.

Additionally, the detection limits provided by Bureau Veritas are lower than the selected standards. The laboratory's QA/QC program results indicate that the provided results are reliable. The laboratory control results are presented in the analytical certificates provided in Appendix 6.

6.7 Conceptual Model

The conceptual model from the Phase I ESA was revised based on the results of the Phase II ESA. The potential contamination sources identified in the Phase I ESA were:

- Underground storage tanks in the northeast corner of the site since the 1960s
- Pump islands north of the store since 1984
- Underground pipes connecting the pump islands and the underground tanks
- Former pump islands north and east of the store from the 1960s to 1984
- + Former mechanical garage west of the store from the 1960s to 1984
- + Carwash in the south area since 1984
- + BTEX, PH F1-F4, Ha and locally Pb contamination in groundwater

The Phase II ESA highlights that:

- + All soil samples analysis results were below Table 3 standards.
- Groundwater sample analysis results were below Table 3 standards in wells MW15-01, MW15-02, TH3 and TH7.
- + One groundwater sample result (F2, 590 ppb) was above Table 3 standards in well 23F01. This concentration represents a decrease compared to TH5's last 2022 analytical results (3500 ppb), located in the vicinity of this well.
- + Other existing wells could not be sampled due to their poor condition (e.g. presence of sediments, blocked). These wells should be replaced to ensure a complete and accurate TSSA groundwater monitoring program.



Considering these results, the following image schematically presents the real and potential contamination sources on site.



Table 3 summarizes information related to the site description, main receptors, and the actual and potential contamination sources that need be validated in future work.

Table 3: Summary of Information

Site Address	1660 Merivale Road, Nepean, Ottawa, Ontario					
Geographical Coordinates of the	Lat.: 45,343350					
Land	Long.: -75,729600					
Lot number	Part of Lot 30, concession 1 of Rideau Front					
Land Area (m²)	1 968,10 m ²					
Landowner	Harnois Groupe immobilier Inc.					
	+ Commercial:					
Land Occupants	 Proxy convenience store with carwash 					
	 Esso Service-Station 					
	+ Commercial:					
	 Convenience store since 1984 with or without restaura 					
Former land occupants	 Carwash since 1984 					
	 Service station since 1968 					
	 Mechanical garage from 1968 to 1984 					
Current Use	Commercial					
Projected Future Use	Commercial					
Municipal Zoning	AM10 (Arterial Mainstreet Zone)					
Permitted Uses	+ Commercial					
Permitted Uses	+ Residential					
Neighbours	+ North: Viewmount Drive followed by a parking and a mall					



	+ South: Residential buildings
	+ East: Merivale Road followed by a school
	+ West: Glenmanor Drive followed by residential buildings
Site description	+ Two buildings: Convenience store and car wash
	+ Convenience store: one story without a basement, featuring
	sales, office and storage areas, as well as a cold room and washroom.
	+ Carwash: one story without a basement, with a washing area and mechanical room and storage room.
Topography and Surface	+ Light descending slope to the southwest, more pronounced south of the carwash.
	 Convenience store (195 m²): concrete slab primarily with ceramic cover, generally in good condition.
	+ Carwash (110 m ²): concrete slab.
	+ Pump island: concrete slab generally in good condition
	 Circulation area: asphalt pavement in poor condition, with numerous cracks.
	 Grass and tree cover along the west and south limits of the site, in the northeast corner, site entrances and northwest of the carwash.
Betweentententen	 Underground storage tanks in the northeast corner since 1984, possibly since 1968 at this location
Potential contamination sources for future works	+ Pump islands north of the store since 1984
Sources for future works	 Underground pipes between the underground tanks and the pump islands
Real contamination identified	Groundwater: BTEX, PH F1-F4, Ha and Pb contamination in some wells since 2011, mostly in the east side of the site
Potential receptors and	Sewer on site and under neighboring streets;
exposure pathways	+ Buildings on site and south neighboring buildings
Selected standards	 On. Reg 153/04, Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition / Fine textured soils
Geology	+ Sand and gravel backfill material up to 1 or 2 meters thick
	+ Brown to grey silt till up to 3 to 5 m BGS
	+ Bedrock at depths of 2,7 m to more than 5,49 m BGS
Hydrogeology	 Groundwater flows to the southwest with local northwest gradient from high point around 23F01.
	 Groundwater level is around the interface of the bedrock and the surface soils or in the bedrock, at depths varying between 2.3 m and 5.0 m BGS.
Potential contamination substances when removing petroleum equipment	+ Gasoline BTEX, PH F1 to F4, Hexane, Pb
Potential Light Non-Aqueous	+ Gasoline: BTEX, PH F1 to F4
phase Liquids (LNAPL)	• Gasonine. DTLA, FITT 1 to 14



7. CONCLUSION AND RECOMMANDATION

7.1 Conclusion

The property is occupied by a gas station with a convenience store and a car wash. As part of a project to be submitted to the City, Phase I and II Environmental Site Assessments (ESAs) are required. These assessments are not intended to register a Record of Site Condition.

Groupe C. Laganière (1995) inc. has been commissioned by Harnois Groupe Immobilier inc., the owner of the site, to conduct a Phase II ESA on the property located at 1660, Merivale Road, Nepean, Ottawa, Ontario. This is in accordance with the service proposal dated June 6, 2024. (Reference Number: 2024-126-CE-REV2).

The objective of the mandate is to verify the risks of potential or actual contamination at the site that were identified by the Phase I ESA.

Fieldwork was conducted from July 8-11, 2024, under the supervision of a GCL certified technician. The work included drilling eight boreholes and sampling groundwater from wells in good condition on site.

The Phase II ESA highlights that:

- All soil samples analysis results were below Table 3 Standards.
- Groundwater sample analysis results were below Table 3 standards in wells MW15-01, MW15-02, TH3 and TH7.
- + One groundwater sample result (F2, 590 ppb) was above Table 3 Standards in well 23F01. This concentration represents a decrease compared to TH5's last 2022 analytical results (3500 ppb), located in the vicinity of this well.
- + Other existing wells could not be sampled due to their poor condition (e.g. presence of sediments, blocked).
- + The other existing wells could not be sampled because of their bad condition, (presence of sediments, blocked, etc.). Some of these wells had contamination levels exceeding Table 3 standards in previous groundwater monitoring reports.

7.2 Recommandation

Based on the results obtained, the environmental quality of the soils at the sample locations meets the Table 3 standards.

However, given that petroleum equipment is still present on the site, it is recommended to conduct an additional environmental characterization campaign for the soils found at the bottom and on the walls of the excavation, upon the removal of these equipment.

Additionally, groundwater contamination is present both on and off the site according to previous reports. It is recommended to continue the annual groundwater monitoring program with the TSSA using both existing and new wells. The damaged wells should be replaced to ensure a complete and accurate TSSA groundwater monitoring program. New wells should be constructed to intercept the groundwater interface to effectively capture LNAPL, if applicable.



8. REFERENCES

CSA, 2022. Z769-00 Évaluation environnementale de site, Phase 2, Association canadienne de normalisation, 32 pages.

GCL, 2024. Environmental Site Assessment, 1660, Merivale Road, Nepean, Ottawa, Ontario. Reference Number: Harn1660P1.

Gelogical Survey of Canada, 1982. Surfical Geology - Ottawa, Map 1506A (31G5).

Groupe VRBS, April 6, 2023. Plan Topographique. Archive: 79-30, Dossier: 230454, minute: 4390.

MECP, Guide for completing phase two environmental site assessments under Ontario Regulation 153/04, 2004 consulted in July 2024.

MECP, Map Well Records, consulted in July 2024.

MNRF, Make a Map: Natural Heritage Areas, consulted in July 2024.

MNRO, 1984. Paleozoic Geology Ottawa Area, Map P.2176.

NRC, 1925 to 1998. Topographic Map – Ottawa Area, Sheet N ° 31G05.

Ontario Regulation 153/04 (as amended by Regulation 362/23) from Part XV.1 of the Environmental Protection Act, December 2023.

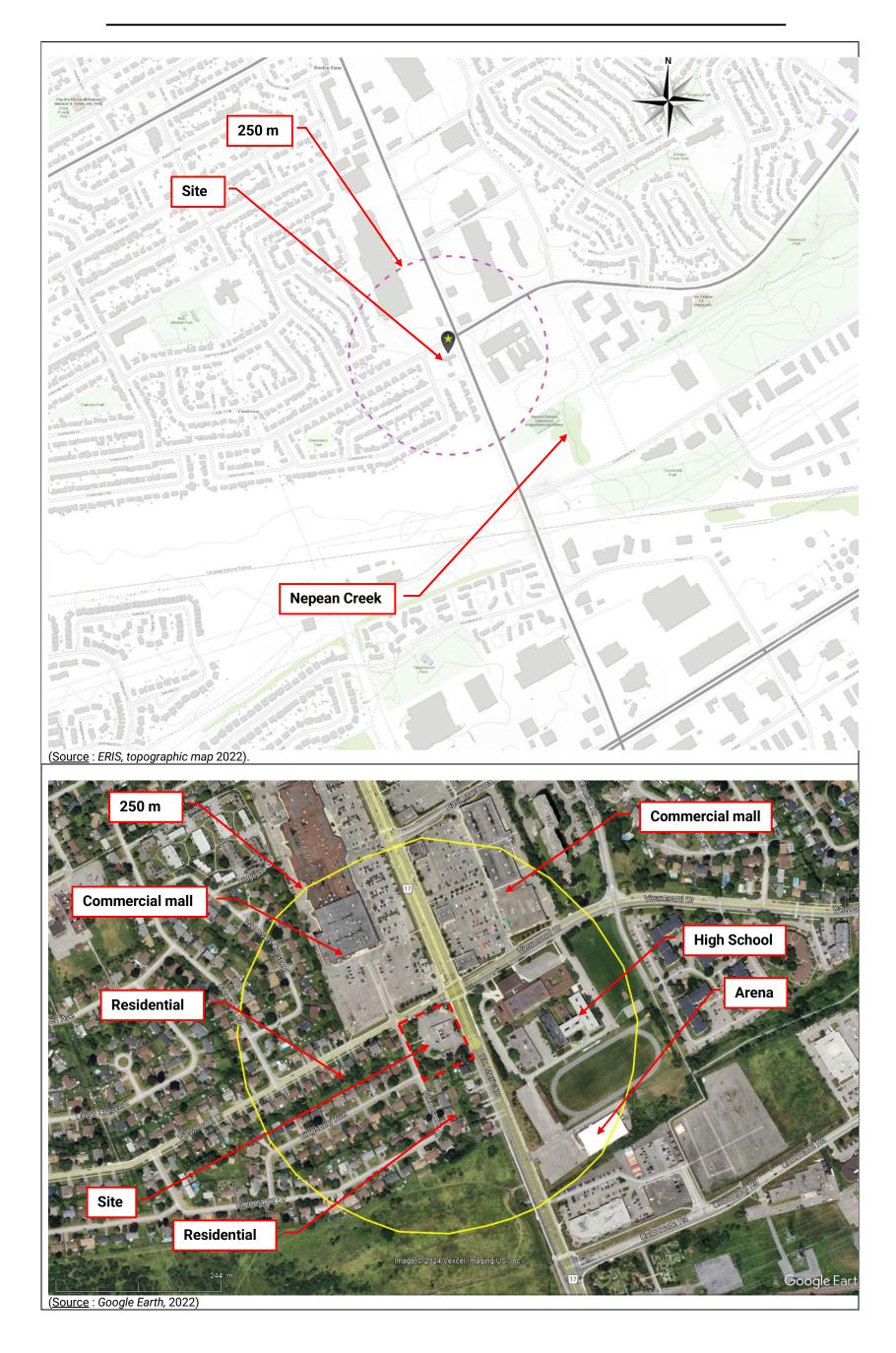
VRSB Arpenteurs-Géomètres, 6 avril 2023. Plan Topographique. Dossier 230454, Minute 4390.



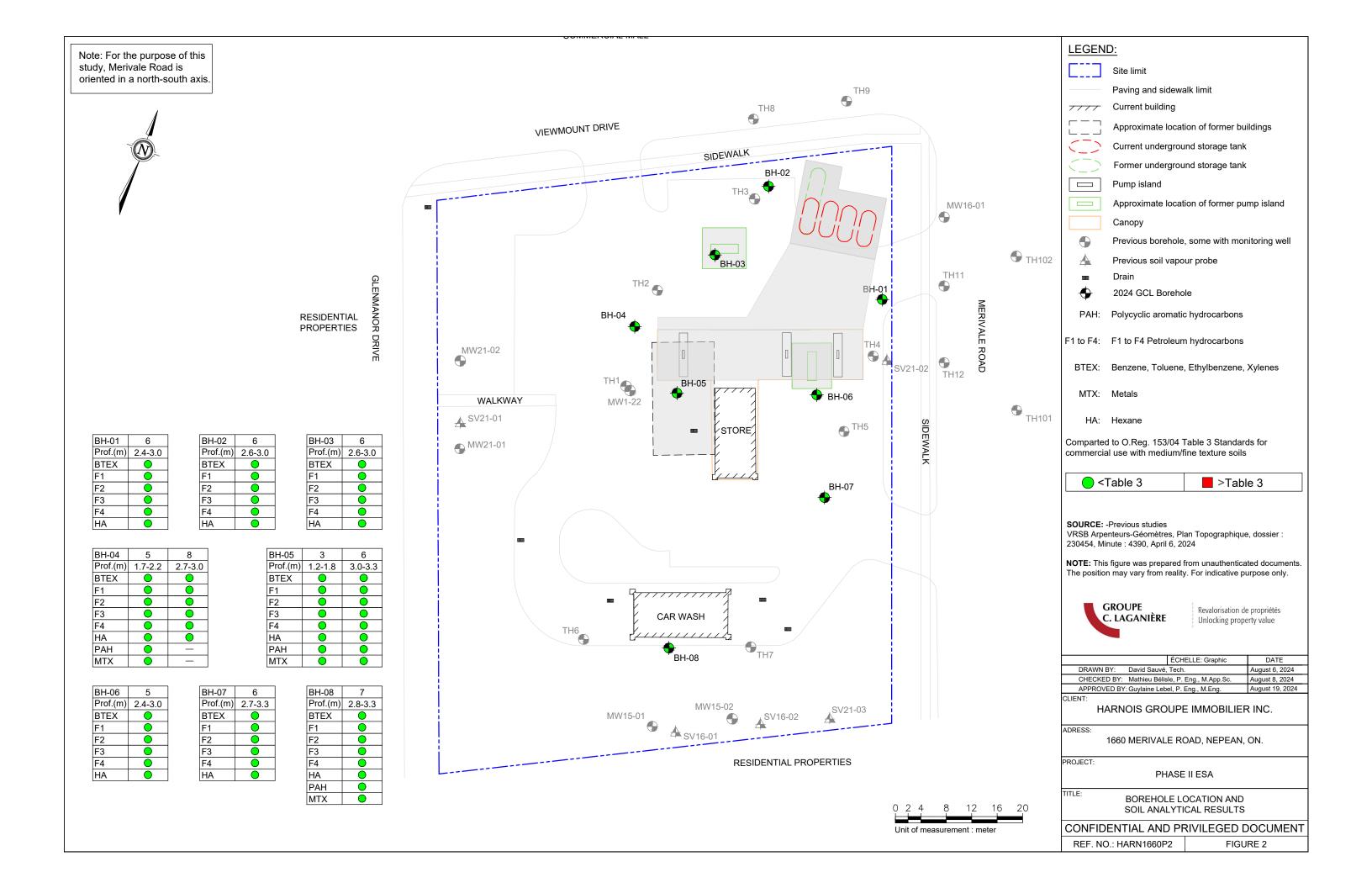
APPENDIX 1 Figures

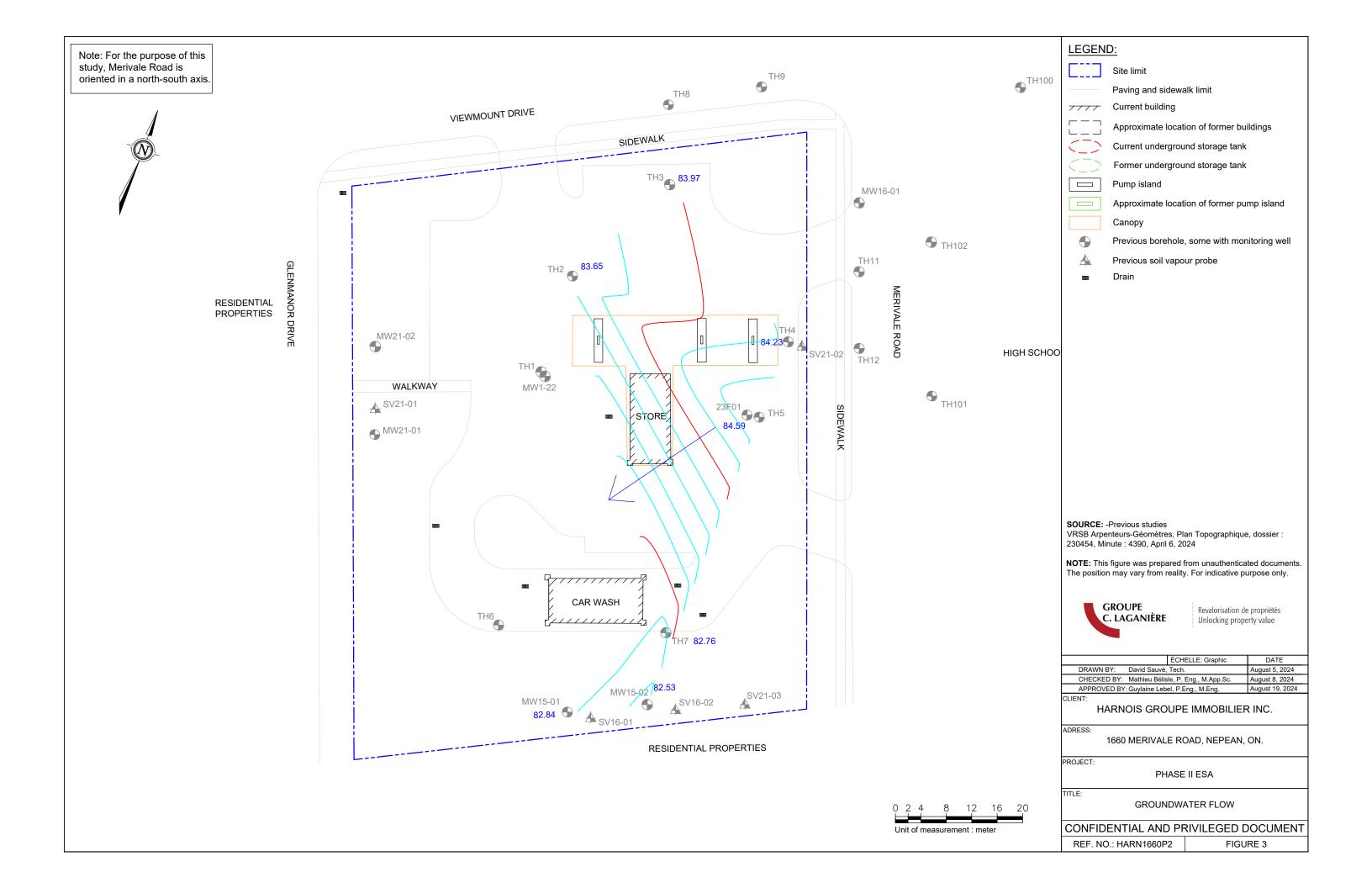


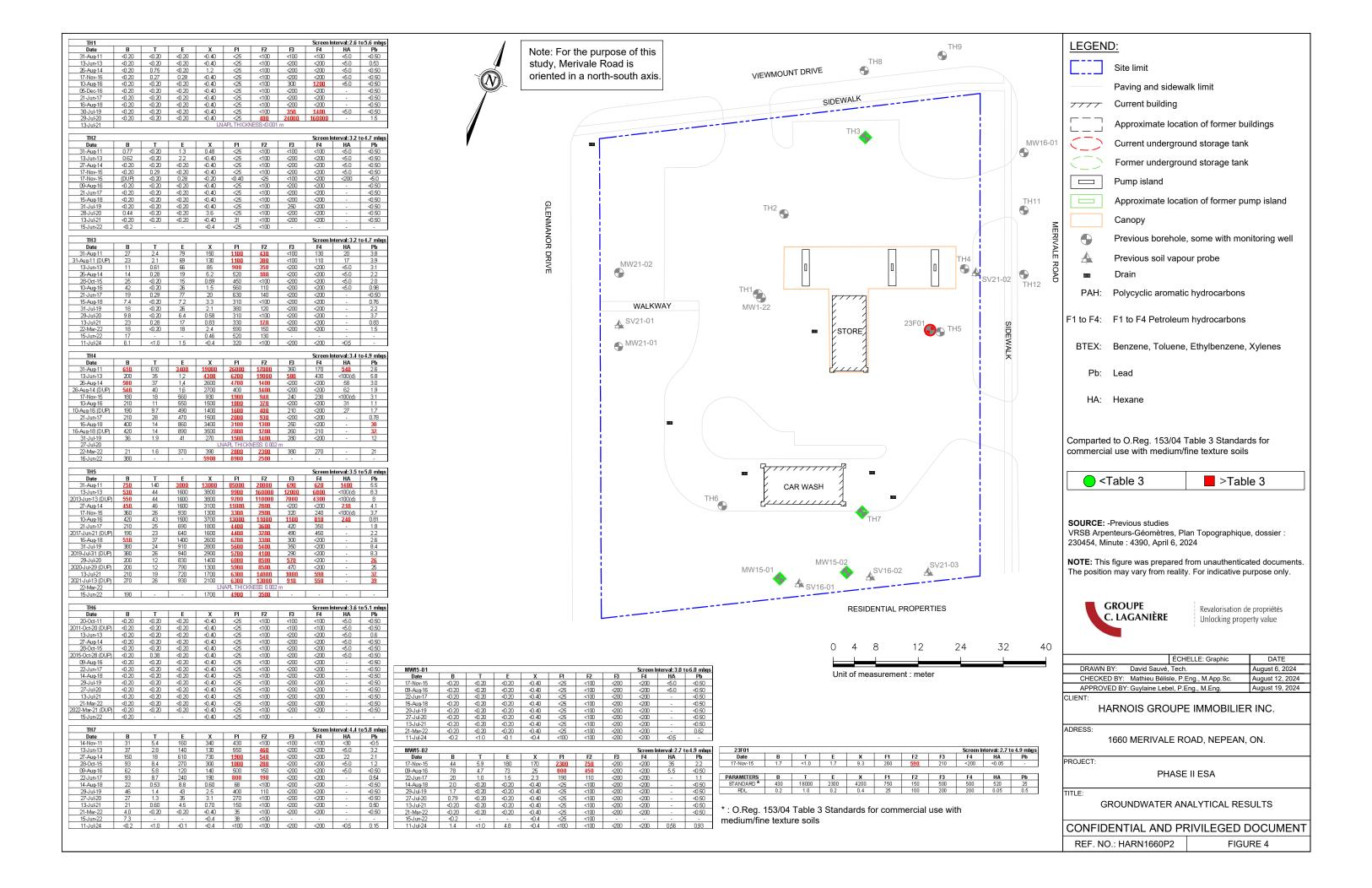




GENERAL SITE	LOCATION		Figure 1
Client :	Harnois Groupe Immobilier Inc.	Site :	1660 Merivale Road, Nepean, Ottawa, Ontario
Project :	Phase II ESA	Produced by:	Mathieu Bélisle, ing., M.Sc.A., P. Eng
File:	HARN1660P2	Verified by :	Guylaine Lebel, Ing., M.Ing., P.Eng.

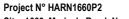






APPENDIX 2 Tables





Site: 1660, Merivale Road, Nepoean, Ottawa, Ontario

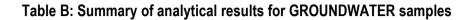




Parameters	Units	O.Reg 153/04 ¹ Industrial/Commercial/	Analytical results												
		Community Property Use ² Sample	BH-01-6	BH-02-8	BH-03-6	BH-04-5	DUP#2		BH-04-8	BH-05-3	BH-05-6	BH-06-5	BH-07-6(REPRISE 2)	BH-08-7	
	Sa	mpling date (year-month-day)				2024-07-09		RPD			2024-07-09		(2024-07-09	RDL
		Depth (m)	0,21 - 0,9	20210100	20210100	0.17 - 0.9	20210100	1412	0.9 - 1.15	1,15 - 1,8	0,09 - 0,9	0.9 - 1.8	0,22 - 0,9	2,7 - 3,6	""
POLYCYCLIC AROMATIC HYDROC	ARBONS (1 ()	0,21 0,0			0,11 0,0			0,0 1,10	1,10 1,0	0,00 0,0	0,0 1,0	0,22 0,0	2,1 0,0	
Acenaphthene	mg/kg	96	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Acenaphthylene	mg/kg	0.17	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Anthracene	mg/kg	0.74	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Benzo(a)anthracene	mg/kg	0.96	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Benzo(a)pyrene	mg/kg	0.3	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Benzo(b)fluoranthene	mg/kg	0.96	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Benzo(j)fluoranthene	mg/kg	NC	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Benzo(k)fluoranthene	mg/kg	0.96	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Benzo(c)phenanthrene	mg/kg	NC	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Benzo(ghi)perylene	mg/kg	9,6	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Chrysene	mg/kg	9,6	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Dibenzo(a,h)anthracene	mg/kg	0,1	-	-	-	<0.10	<0.10	RDNC	-	<0.10	<0.10	-	-	<0.10	0.1
Dibenzo(a,i)pyrene	mg/kg	NC NC		_		<0.10	<0.10	RDNC	<u> </u>	<0.10	<0.10	_	_	<0.10	0.1
Dibenzo(a,h)pyrene	mg/kg	NC		_	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	_	<0.10	0.1
Dibenzo(a,l)pyrene	mg/kg	NC NC			_	<0.10	<0.10	RDNC	<u> </u>	<0.10	<0.10		_	<0.10	0.1
7,12-Dimethylbenzanthracene	mg/kg	NC NC	_	-	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	-	<0.10	0.1
Fluoranthene	mg/kg	9.6		-	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	-	<0.10	0.1
Fluorene	mg/kg	69	_	-	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	-	<0.10	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.95	_	-	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	-	<0.10	0.1
3-Methylcholanthrene	mg/kg	NC NC	_	_	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	_	<0.10	0.1
Naphthalene	mg/kg	28		_		<0.10	<0.10	RDNC	_	<0.10	<0.10		_	<0.10	0.1
Phenanthrene	mg/kg	16				<0.10	<0.10	RDNC	_	<0.10	<0.10		_	<0.10	0.1
Pyrene	mg/kg	96	_	_	_	<0.10	<0.10	RDNC	_	<0.10	<0.10	_	_	<0.10	0.1
2-Methylnaphthalene	mg/kg	85	_	-	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	-	<0.10	0.1
1-Methylnaphthalene	mg/kg	85	_	_	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	-	<0.10	0.1
1,3-Dimethylnaphthalene	mg/kg	NC NC	_	_	_	<0.10	<0.10	RDNC	-	<0.10	<0.10	_	-	<0.10	0.1
2,3,5-Trimethylnaphthalene	mg/kg	NC NC	_	_	_	<0.10	<0.10	RDNC	_	<0.10	<0.10	_	_	<0.10	0.1
PETROLEUM HYDROCARBONS (C		NO				-0.10	-0.10	TUDITO		-0.10	-0.10			-0:10	0.1
Petroleum Hydrocarbons F1 3	mg/kg	65	<10	<10	<10	<10	<10	RDNC	<10	<10	<10	24	<10	<10	10
Petroleum Hydrocarbons F2	mg/kg	250	<10	<10	<10	<10	<10	RDNC	<10	<10	<10	680	<10	<10	10
Petroleum Hydrocarbons F3	mg/kg	2500	<50	<50	<50	<50	<50	RDNC	<50	<50	<50	140	<50	<50	50
Petroleum Hydrocarbons F4	mg/kg	6600	<50	<50	<50	<50	<50	RDNC	<50	<50	<50	<50	<50	<50	50
VOLATILE ORGANIC COMPOUNDS								115110							
Benzene	mg/kg	0.4	<0.0050	<0.0050	< 0.0050	0.0066	<0.0050	RDNC	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005
Ethylbenzene	mg/kg	19	<0.050	<0.050	<0.050	<0.050	<0.050	RDNC	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Toluene	mg/kg	78	<0.010	<0.010	<0.010	<0.010	<0.010	RDNC	<0.010	<0.010	<0.010	1.3	<0.010	<0.010	0.01
Xvlene Mixture	mg/kg	30	<0.040	<0.040	<0.040	<0.040	<0.040	RDNC	<0.040	<0.040	<0.040	5.2	<0.040	<0.040	0.04
Hexane (n)	mg/kg	88	<0.50	<0.50	<0.50	<0.50	<0.50	RDNC	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.5
METALS (MET)					0.00					0.00		0.00			
Arsenic (As)	mg/kg	18	-	-	-	<5.0	<5.0	RDNC	-	<5.0	<5.0	-	-	<5.0	5
Cadmium (Cd)	mg/kg	1.9	-	-	-	<0.50	<0.50	RDNC	-	<0.50	<0.50	-	-	<0.50	0.5
Chromium (Cr)	mg/kg	160	-	-	-	55	55	0%	-	4	9.7	-	-	34	2
Cobalt (Co)	mg/kg	100	-		-	12	12	0%	-	3.1	6.4		-	7.7	2
Copper (Cu)	mg/kg	300	-	-	-	26	24	8%	-	8.4	11	-	-	18	2
Nickel (Ni)	mg/kg	340	-	-	-	29	28	4%	-	4.9	13	-	-	19	1
Lead (Pb)	mg/kg	120	5.3	6.8	7	8.9	7.1	RDNC	9.5	<5.0	7	8.2	6.1	<5.0	5
Thallium (TI)	mg/kg	3.3	<2.0	<2.0	<2.0	-	-	-	<2.0	-	-	<2.0	<2.0	-	2
Zinc (Zn)	mg/kg	340	-	-	-	71	66	7%	-	11	14	-	-	44	10

Notes:

- (1) : Ontario Regulation 153/04 : Records of Site Conditions
- (2) : Table 3 standard for industrial/commercial/community proporty with fine textured soils
 - : F1 fraction standard does not include BTEX
- (3) : F1 fraction standard does not include RDL : Laboratory Reported Detection Limit.
- NC : No available criteria for this parameter
- RPD : Relative difference in percentage. Considered acceptable up to 30%
- RDNC : Relative diffrence not calculable becauses concetrations are lower than 5x the RDL.
 - : Not analyzed
- : Concentration lower than Table 3 standard for industrial/commercial/community proporty with medium/fine textured soils
- : Concentration above than Table 3 standard for industrial/commercial/community proporty with medium/fine textured soils





Project N° HARN1660P2

Site: 1660, Merivale Road, Nepoean, Ottawa, Ontario

Bureau Veritas File Nº: C437803V2	,									
		O.Reg 153/04 ¹								
Parameters	Units	Industrial/Commercial/								
		Community Property Use ²								
	-	Sample		MW15-02	DUP-MW15-02		TH3	TH7	23F01	
	Sa	mpling date (year-month-day)			2024-07-11	RPD	2024-07-11	2024-07-11	2024-07-11	RDL
		Water Table Elevation (m)	82.84	82.53	82.53		83.97	82.76	84.59	
POLYCYCLIC AROMATIC HYDROC	CARBONS (<u> </u>								
Acenaphthene	ug/L	1700	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.030
Anthracene	ug/L	2.4	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.030
Benzo(a)anthracene	ug/L	4.7	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.030
Benzo(a)pyrene	ug/L	0.81	<0.0080	<0.0080	<0.0080	RDNC	-	<0.0080	-	0.0080
Benzo(b)fluoranthene	ug/L	0.75	<0.060	<0.060	<0.060	RDNC	-	<0.060	-	0.06
Benzo(j)fluoranthene	ug/L	NC	<0.060	<0.060	<0.060	RDNC	-	<0.060	-	0.06
Benzo(k)fluoranthene	ug/L	0.4	<0.060	<0.060	<0.060	RDNC	-	<0.060	-	0.06
Chrysene	ug/L	1	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.03
Dibenzo(a,h)anthracene	ug/L	0.52	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.03
Fluoranthene	ug/L	130	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.03
Fluorene	ug/L	400	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.03
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.03
Naphthalene	ug/L	6400	<0.030	0.033	<0.030	RDNC	-	<0.030	-	0.03
Phenanthrene	ug/L	580	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.03
Pyrene	ug/L	68	<0.030	<0.030	<0.030	RDNC	-	<0.030	-	0.030
PETROLEUM HYDROCARBONS	, ,									
Petroleum Hydrocarbons F1 ³	ug/L	750	<100	100	<100	RDNC	320	<100	260	100
Petroleum Hydrocarbons F2	ug/L	150	<100	<100	<100	RDNC	<100	<100	590	100
Petroleum Hydrocarbons F3	ug/L	500	<200	<200	<200	RDNC	<200	<200	210	200
Petroleum Hydrocarbons F4	ug/L	500	<200	<200	<200	RDNC	<200	<200	<200	200
VOLATILE ORGANIC COMPOUNDS	•									
Benzene	ug/L	430	<0.2	1.4	1.4	0%	6.1	<0.2	1.7	0.2
Ethylbenzene	ug/L	2300	<0.1	4.8	4.6	4%	1.5	<0.1	1.7	0.1
Toluene	ug/L	18000	<1.0	<1.0	<1.0	RDNC	<1.0	<1.0	<1.0	1.0
Xylene Mixture	ug/L	4200	<0.4	<0.4	<0.4	RDNC	<0.4	<0.4	9,3	0.4
Hexane (n)	ug/L	520	<0.50	0.56	<0.50	RDNC	<0.50	<0.50	<0.5	0.50
METALS (MTX)	J									
Arsenic (As)	ug/L	1900	-	<0.30	<0.30	RDNC	-	<0.30	-	0.30
Cadmium (Cd)	ug/L	2.7	-	<0.20	<0.20	RDNC	-	<0.20	-	0.20
Chromium (Cr)	ug/L	810	-	<0.50	0.52	RDNC	-	<0.50	-	0.50
Cobalt (Co)	ug/L	66	-	0.54	0.58	RDNC	-	<0.50	-	0.50
Copper (Cu)	ug/L	87	-	2.5	2.5	0%	-	1.2	-	0.50
Nickel (Ni)	ug/L	490	-	6.0	6.7	11%	-	5.3	-	1.0
Lead (Pb)	ug/L	25	-	0.93	0.85	9%	-	0.15	-	0.10
Zinc (Zn)	ug/L	1100	-	17	57	RDNC	-	<5.0	-	5.0

Notes:

: Ontario Regulation 153/04 : Records of Site Conditions

(2) : Table 3 standard for industrial/commercial/community proporty with fine textured soils

(3) : F1 fraction standard does not include BTEX RDL :Laboratory Reported Detection Limit.

NC : No available criteria for this parameter

: Relative difference in percentage. Considered acceptable up to 30% RPD

RDNC : Relative diffrence not calculable becauses concetrations are lower than 5x the RDL.

: Not analyzed

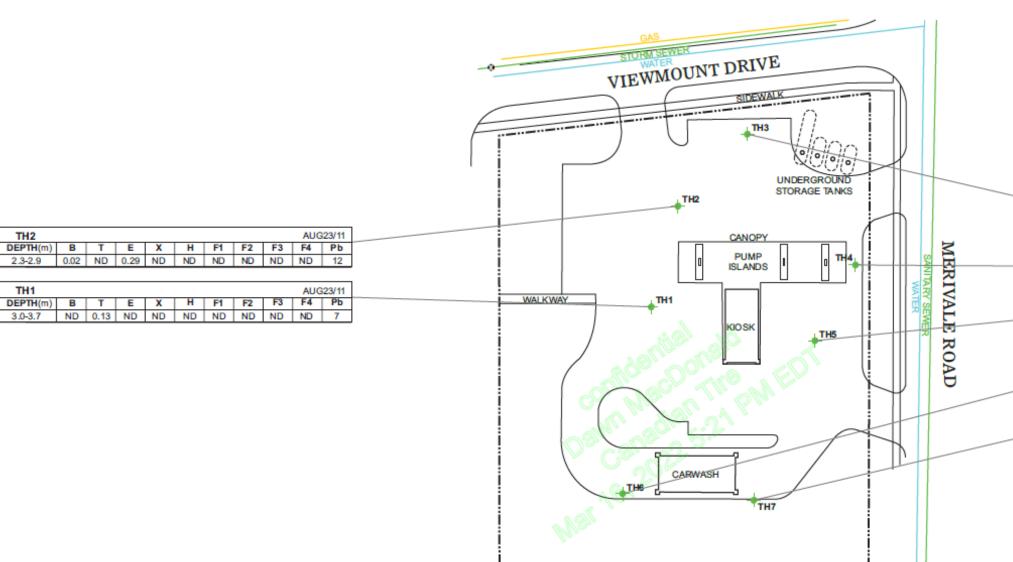
: Concentration lower than Table 3 standard for industrial/commercial/community proporty with medium/fine textured soils : Concentration above than Table 3 standard for industrial/commercial/community proporty with medium/fine textured soils

0,7

300

APPENDIX 3 Previous Studies Site Plans





TH3									AUG	23/11
DEPTH(m)	В	T	E	X	Н	F1	F2	F3	F4	Pb
2.3-2.9	ND	7								
2.3-2.9(DUP)	ND	8								

TH4									AUG	24/11
DEPTH(m)	В	T	E	X	Н	F1	F2	F3	F4	Pb
2.4-3.0	ND	4								

TH5									AUG	24/11
DEPTH(m)	В	T	E	X	н	F1	F2	F3	F4	Pb
2.3-2.9	ND	ND	0.05	ND	ND	ND	ND	ND	ND	7
2.3-2.9(DUP)	ND	ND	0.06	ND	ND	ND	ND	ND	ND	7

TH6									OCT	18/11
DEPTH(mbgs)	В	T	E	X	н	F1	F2	F3	F4	Pb
4.3-4.9	ND	7.1								

TH7									OCT	19/11
DEPTH(mbgs)	В	T	E	X	н	F1	F2	F3	F4	Pb
2.1-2.7	ND	4.8								
3.4-4.0	ND	8.0								
3.4-4.0(DUP)	ND	7.5								



TH2

TH1

3.0-3.7

SCALE: (APPROXIMATE) DRAWN BY CHECKED BY BARENCO

C.N.

D.K.S.

SOURCE:

BASED ON 'SITE PLAN' BY IMPERIAL OIL A0765 **DATED JAN. 16, 1984 AND** FIELD OBSERVATIONS BY BARENCO STAFF

---- PROPERTY BOUNDARY

LEGEND:

MANHOLE TEST HOLE WITH MONITOR LOCATION WHERE ALL SOIL SAMPLES MEET REG 153/04 (2011) TABLE 3 STANDARDS FOR ALL PARAMETERS THAT WERE ANALYSED SHOWN AS GREEN

LOCATION WHEREAT LEAST ONE SOIL SAMPLE EXCEEDS REG 153/04 (2011) TABLE 3 STANDARDS FOR AT LEAST ONE PARAMETER SHOWN AS RED

EXCEEDANCES OF REG 153/04 (2011) TABLE 3 STANDARDS SHOWN IN TEXT AS RED BOLD

* STANDARDS SHOWN ARE FOR AN INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE AND MEDIUM AND FINE TEXTURED SOILS IN A NON-POTABLE GROUND WATER CONDITION

ALL ANALYTICAL RESULTS ARE IN µg/g, DRY WEIGHT BASIS 'DEPTH(mbgs)' MEANS DEPTH IN METRES BELOW GROUND SURFACE 'ND' MEANS NOT DETECTED 'RDL' MEANS LABORATORY REPORTING DETECTION LIMIT

ABBREVIATION PARAMETER RDL STANDARDS BENZENE 0.4 TOLUENE 19 0.02 ETHYLBENZENE 78 0.02 XYLENES 30 0.04 n-HEXANE 88 0.5 F1 (C_e-C_e) - BTEX F1 65 F2 (C,-C,) 250 F2 F3 (C_w-C₃₄) F3 2500 F4 (C_x-C_x) F4 6600

SOIL ANALYTICAL RESULTS

BARENCO JOB #: 11010

FIGURE 3

DATE: MARCH 2012

IMPERIAL OIL 1660 MERIVALE ROAD OTTAWA, ONTARIO

11010-SOIL RESULTS-MAR12

MW15-01 Date Sampled - September 09/15														
Depth (mbgs)	В	T	E	X	F1	F2	F3	F4	Н	Pb				
0.30	<0.020	<0.020	<0.020	<0.040	<10	<10	<50	\$	<0.50	24				
1.80	<0.020	<0.020	<0.020	<0.040	<10	<10	<50	<50	<0.50	5.6				

MW15-02								Date Sar	mpled - Sept	ember 09/15
Depth (mbgs)	В	T	E	X	F1	F2	F3	F4	Н	Pb
0.20	<0.020	<0.020	<0.020	<0.040	<10	<10	<50	<50	<0.50	33
1.60	<0.020	< 0.020	<0.020	<0.040	<10	<10	<50	<50	<0.50	5.7

ONTARIO STANDARDS

PARAMETERS	В	Т	E	X	F1	F2	F3	F4	H	Pb
CRITERIA™	0.4	78	19	30	65	250	2,500	6,600	88	120
RDL	0.020	0.020	0.020	0.040	10	10	50	50	0.50	5.0

LEGEND

PROPERTY BOUNDARY



BOREHOLE LOCATION COMPLETED AS A MONITORING WELL

LIST OF APPLICABLE ABBREVIATIONS

O.REG 153 (2011) TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS FOR INDUSTRIAL/COMMERICAL/COMMUNITY PROPERTY USE FOR MEDIUM AND FINE TEXTURED SOIL IN A NON-POTABLE GROUNDWATER CONDITION.

REPORTABLE DETECTION LIMIT

LESS THAN n-HEXANE

MICROGRAMS PER GRAM mbgs METRES BELOW GROUND SURFACE

BENZENE O.REG ONTARIO REGULATION

TOLUENE

ETHYLBENZENE RDL

PETROLEUM HYDROCARBON FRACTION 1 ($C_6 - C_{10}$) MINUS BTEX

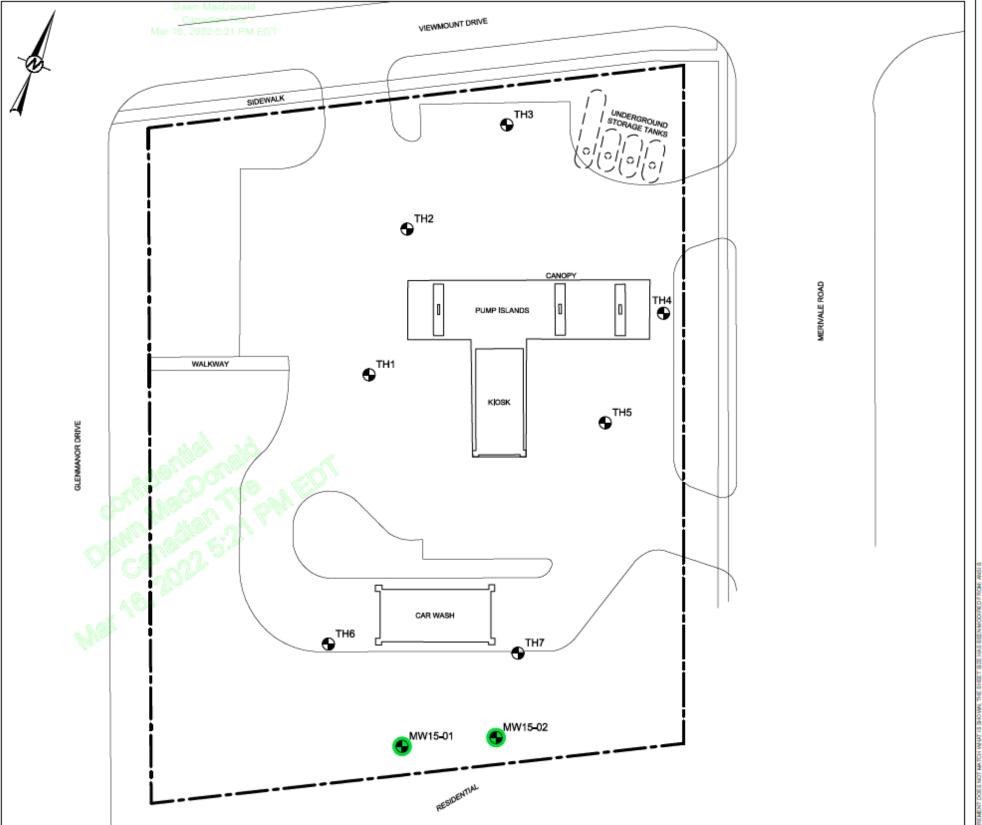
PETROLEUM HYDROCARBON FRACTION 4 (C_M-C₅₀)

PETROLEUM HYDROCARBON FRACTION 2 (C10°C16)

PETROLEUM HYDROCARBON FRACTION 3 (C_{16} - C_{34}) F3

NOTES

- 1. LOCATIONS WHERE ALL SOIL SAMPLES MEET APPLICABLE STANDARDS FOR ALL PARAMETERS ANALYZED SHOWN IN GREEN.
- LOCATIONS WHERE AT LEAST ONE SOIL SAMPLE EXCEEDS APPLICABLE STANDARDS FOR AT LEAST ONE OF THE PARAMETERS ANALYZED SHOWN IN RED.
- 3. EXCEEDANCES OF APPLICABLE CRITERIA IN TEXT ARE SHOWN IN RED.
- ALL RESULTS IN μg/g.



ORIGINAL DRAWING OBTAINED FROM BARENCO INC.; FILE No.: 11010-8ITE PLAN ONSITE-JUN14; SCALE: UNKNOWN; DATE: JUNE 2014.



CONSULTANT

IMPERIAL OIL LIMITED

YYYY-MM-DD	2016-05-04
DESIGNED	BMcParlan
PREPARED	SStoddart
REVIEWED	BMcParlan

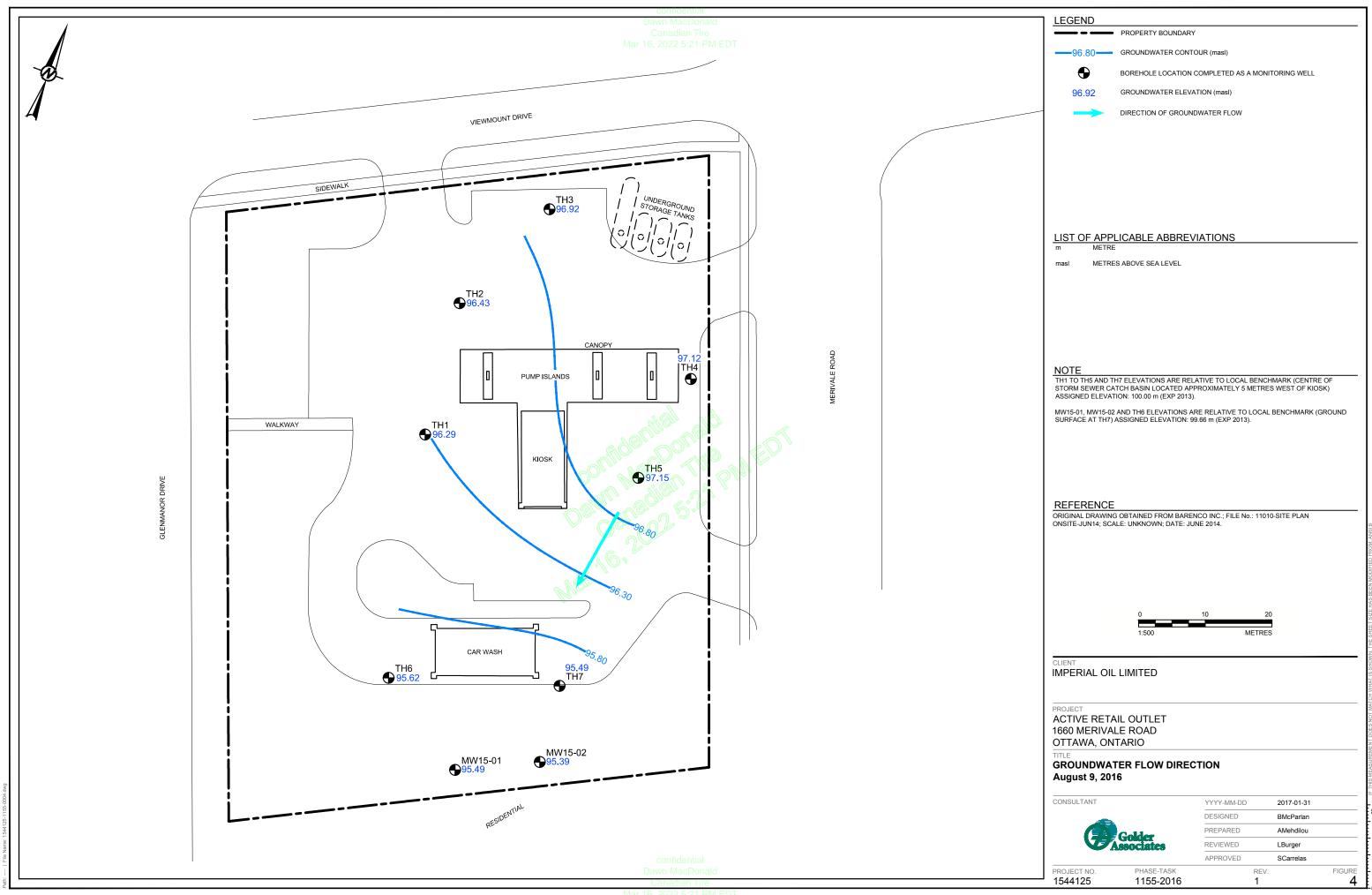
SCarrelas

APPROVED

PROJECT RETAIL FUEL OUTLET 1660 MERIVALE ROAD OTTAWA, ONTARIO

 SOIL ANALYTICAL RESULTS - BTEX, PHC FRACTIONS F1-F4, n-HEXANE AND LEAD

PROJECT NO. 1536518 1155-HS-0006 0



TH1							Scree	n Interva	l: 2.6 to 5	.6 mbgs
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb
31-Aug-11	<0.20	<0.20	<0.20	<0.40	<25	<100	<100	<100	<5.0	<0.50
13-Jun-13	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	0.53
26-Aug-14	<0.20	0.75	<0.20	1.2	<25	<100	<200	<200	<5.0	<0.50
17-Nov-15	<0.20	0.27	0.28	<0.40	<25	<100	<200	<200	<5.0	<0.50
10-Aug-16	<0.20	<0.20	<0.20	<0.40	<25	<100	300	1,200 ^(b)	<5.0	<0.50
5-Dec-16	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	na	<0.50

TH2	TH2 Screen Interval: 3.2 to 4.7 mbgs													
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb				
31-Aug-11	0.77	<0.20	1.3	0.48	<25	<100	<100	<100	<5.0	<0.50				
13-Jun-13	0.62	<0.20	2.2	<0.40	<25	<100	<200	<200	<5.0	<0.50				
27-Aug-14	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	<0.50				
17-Nov-15	<0.20	0.29	<0.20	<0.40	<25	<100	<200	<200	<5.0	<0.50				
9-Aug-16	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	<0.50				

TH3							Scree	n Interva	l: 3.2 to 4	.7 mbgs
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb
31-Aug-11	27	2.4	79	150	<u>1100</u>	<u>430</u>	<100	130	20	3.8
31-Aug-11 (DUP)	23	2.1	69	130	<u>1100</u>	<u>380</u>	<100	110	17	3.9
13-Jun-13	11	0.61	66	85	900	<u>350</u>	<200	<200	<5.0	3.1
26-Aug-14	14	0.28	19	5.2	520	<u>180</u>	<200	<200	<5.0	2.2
28-Oct-15	25	<0.20	15	0.89	450	<100	<100	<200	<5.0	2.0
10-Aug-16	42	<0.20	26	1.5	560	110	<200	<200	<5.0	0.98

TH4 Screen Interval: 3.4 to 4.9 m											
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb	
31-Aug-11	<u>610</u>	610	3,400	19,000	26,000	17,000	360	170	<u>540</u>	2.6	
13-Jun-13	200	35	1200	4,300	6,200	19,000	<u>580</u>	430	<100	5.8	
26-Aug-14	500	37	1400	2600	4,700	1400	<200	<200	58	3.0	
26-Aug-14 (DUP)	<u>540</u>	40	1600	2700	400	<u>1400</u>	<200	<200	62	1.9	
17-Nov-15	180	18	560	930	1,900	940	240	230	<100	3.1	
10-Aug-16 (DUP A)	190	9.7	490	1,400	1,600	<u>400</u>	210	<200	31	1.7	
10-Aug-16	210	11	550	1,500	<u>1,800</u>	<u>370</u>	<200	<200	27	1.1	

TH5 Screen Interval: 3.5 to 5.0 ml												
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb		
31-Aug-11	<u>750</u>	140	3,000	13,000	85,000	20,000	690	620	1,400	5.5		
13-Jun-13	<u>530</u>	44	1600	3800	9,900	160,000	12,000	6,800	<100	8.3		
13-Jun-13 (DUP)	<u>550</u>	44	1600	3800	9,200	110,000	7,000	4,300	<100	8		
27-Aug-14	<u>450</u>	46	1600	3100	11,000	2,800	<200	<200	210	4.1		
17-Nov-15	360	26	930	1,300	3,300	<u>2,900</u>	320	240	<100	3.7		
10-Aug-16	420	43	1,500	3,700	13,000	11,000	<u>1,100</u>	<u>810</u>	240	0.81		

TH6		Screen Interval: 3.6 to 5.1 mbgs								
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb
20-Oct-11	<0.20	<0.20	<0.20	<0.40	<25	<100	<100	<100	<5.0	<0.50
20-Oct-11 (DUP)	<0.20	<0.20	<0.20	<0.40	<25	<100	<100	<100	<5.0	<0.50
13-Jun-13	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	0.6
27-Aug-14	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	<0.50
28-Oct-15	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	<0.50
9-Aug-16	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	<0.50

TH7 Screen Interval:										
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb
14-Nov-11	31	5.4	160	340	430	<100	<100	<100	<30	<0.5
13-Jun-13	37	2.8	140	130	550	<u>460</u>	<200	<200	<5.0	3.2
27-Aug-14	150	18	610	730	<u>1,900</u>	<u>540</u>	<200	<200	22	2.1
28-Oct-15	93	8.4	270	300	1,000	280	<200	<200	<5.0	1.2
9-Aug-16	62	5.8	120	140	500	150	<200	<200	<5.0	<0.50

MW15-01 Screen Interval: 3.0 to 6.0 mbg											
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb	
17-Nov-15	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	<0.50	
9-Aug-16	<0.20	<0.20	<0.20	<0.40	<25	<100	<200	<200	<5.0	<0.50	

MW15-02 Screen Interval: 2.7 to 4.9 mbgs											
Date	В	Т	E	Х	F1	F2	F3	F4	HA	Pb	
17-Nov-15	44	5.9	180	170	2,300	<u>750</u>	<200	<200	35	2.2	
9-Aug-16	78	4.7	73	25	800	<u>450</u>	<200	<200	5.5	<0.50	

LEGEND

PROPERTY BOUNDARY



BOREHOLE LOCATION COMPLETED AS A MONITORING

LIST OF APPLICABLE ABBREVIATIONS

	LESS THAN
a/L	MICROGRAMS PER LITRE

BENZENE TOLUENE ETHYLBENZENE

XYLENES

DUPLICATE FIELD SAMPLE DUP

PETROLEUM HYDROCARBON FRACTION 1 (C_6 - C_{10}) MINUS BTEX

F2 PETROLEUM HYDROCARBON FRACTION 2 (C₁₀-C₁₆) F3 PETROLEUM HYDROCARBON FRACTION 3 (C₁₆-C₃₄) F4 PETROLEUM HYDROCARBON FRACTION 4 (C₃₄-C₅₀)

HA n-HEXANE

mbgs METRES BELOW GROUND SURFACE LEAD

Pb O.REG

ONTARIO REGULATION RDL REPORTABLE DETECTION LIMIT

- LOCATIONS WHERE MOST RECENT GROUNDWATER SAMPLE MEETS
 APPLICABLE STANDARDS FOR ALL PARAMETERS ANALYZED SHOWN
- LOCATIONS WHERE MOST RECENT GROUNDWATER SAMPLE EXCEEDS APPLICABLE STANDARDS FOR AT LEAST ONE OF THE PARAMETERS ANALYZED SHOWN IN RED.
- 3. EXCEEDANCES OF APPLICABLE STANDARDS IN TEXT ARE SHOWN IN
- LOCATION WHERE NO SAMPLES WERE TAKEN IN THE MOST RECENT SAMPLING EVENT SHOWN IN BLACK.
- ALL RESULTS IN μg/L.

REFERENCE

ORIGINAL DRAWING OBTAINED FROM BARENCO INC.; FILE No.: 11010-SITE PLAN ONSITE-JUN14; SCALE: UNKNOWN; DATE: JUNE 2014.

ONTARIO STANDARDS

PARAMETERS	В	Т	Е	Х	F1	F2	F3	F4	HA	Pb
STANDARDS(a)	430	18,000	2,300	4,200	750 ^(c)	150	500	500	520	25
RDL	0.20	0.20	0.20	0.40	25	100	200	200	10	0.50

O.REG 153 (2011) TABLE 3 FULL DEPTH GENERIC SITE CONDITION STANDARDS FOR ALL TYPES OF PROPERTY USE FOR GROUNDWATER IN MEDIUM AND FINE TEXTURED SOIL IN IN A NON-POTABLE GROUND WATER CONDITION.



IMPERIAL OIL LIMITED

YYYY-MM-DD 2017-01-31 DESIGNED BMcParlan PREPARED AMehdilou REVIEWED LBurger APPROVED SCarrelas

CAR WASH

VIEWMOUNT DRIVE

TH3

PUMP ISLANDS

KIOSK

SIDEWALK

WALKWAY

ACTIVE RETAIL OUTLET 1660 MERIVALE ROAD OTTAWA, ONTARIO

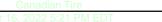
MW15-02

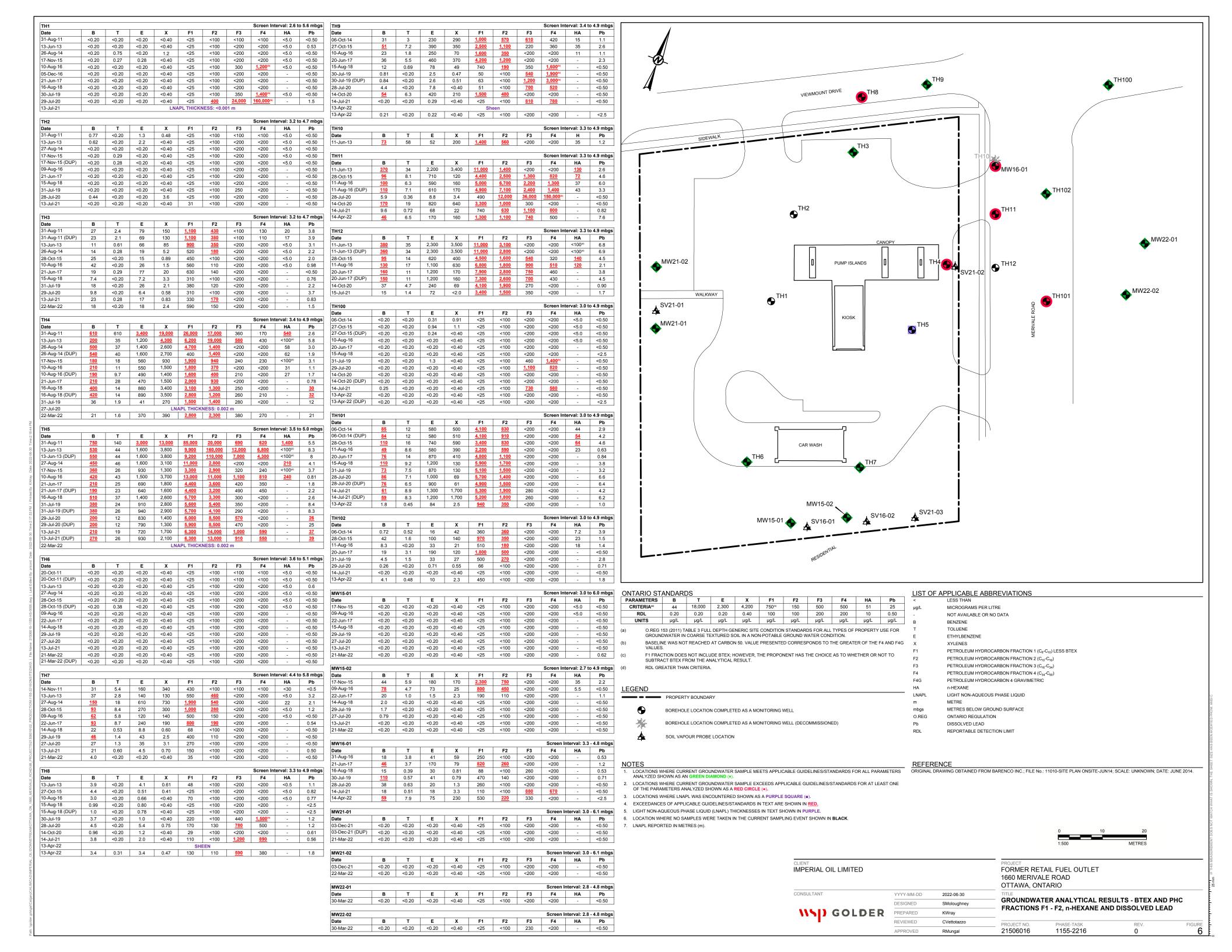
GROUNDWATER ANALYTICAL RESULTS - BTEX, PHC FRACTIONS F1 - F4, n-HEXANE AND LEAD

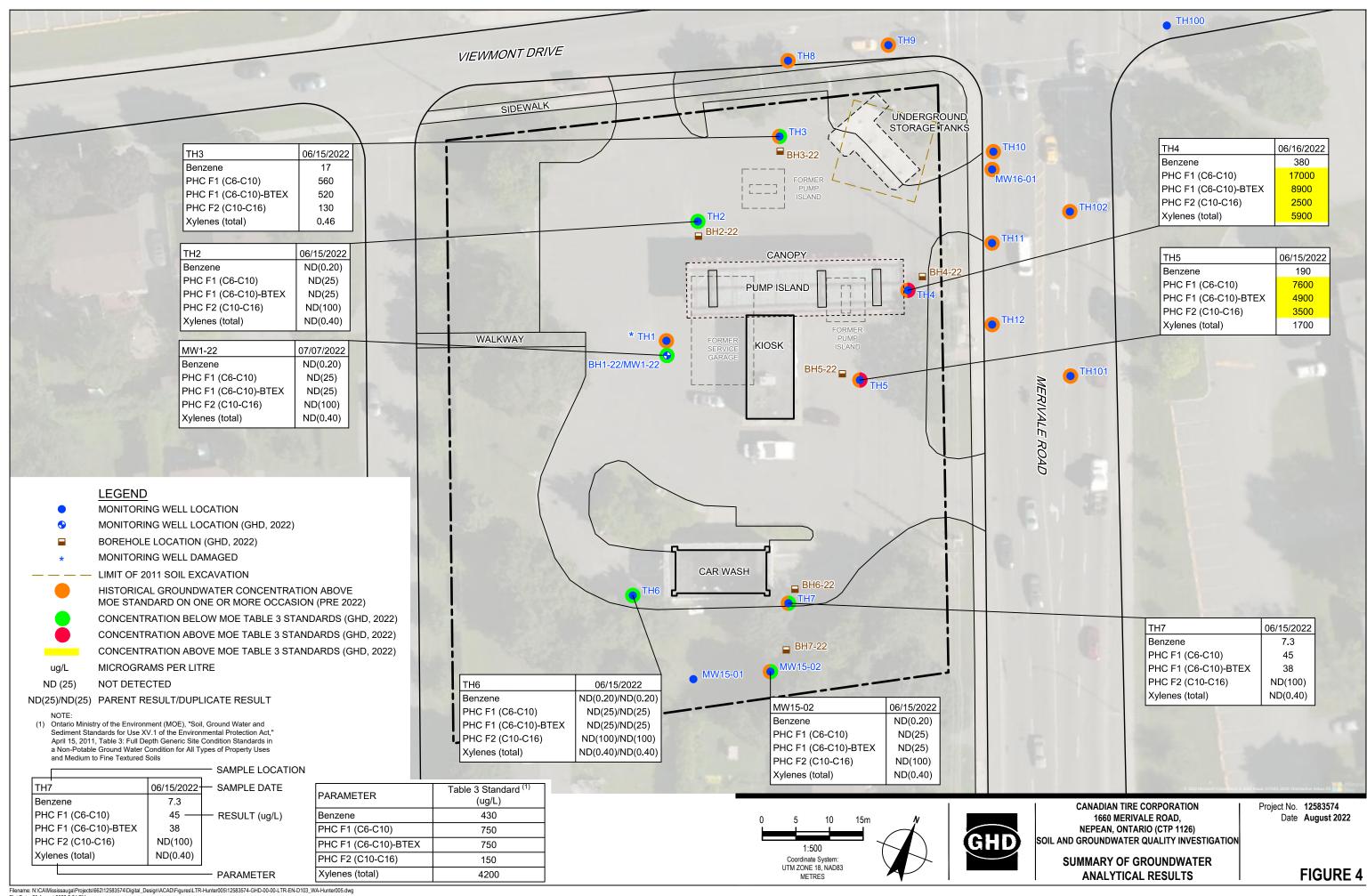
TH5

FIGURE 5 PHASE-TASK PROJECT NO REV. 1544125 1155-2016

CONSULTANT







APPENDIX 4 Borehole Logs



LOG INFORMATION DESCRIPTION



HARN1660 Project number:

Client: Harnois Groupe Immobilier inc.

Site: 1660, Merivale Road, Nepean, Ottawa, Ontario

SYMBOLS

Results

Analytical result below Table 3 Commercial

standard

Analytical result above Table 3 Commercial

standard

Groundwater

Water level

Free phase level

ABREVIATIONS

Analyzes

PAH = Polycyclic aromatic hydrocarbons

F1-F4 = F1 to F4 Petroleum hydrocarbon

MTX = Metals MT(6)

VOC = Volatil organic compounds

BTEX = Benzene, toluene, ethylbenzene, xylenes

MAH = Monocyclic aromatic hydrocarbons

Hn = Hexane

signs of contamination contamination

A = Absent

A = Absent

Visual

signs of

N = Noticeable

D = Disseminated

S = Strong

T = Saturated

Compactness condition

Olfactory

N = Standard penetration test index

TERMINOLOGY

"and" = Fraction greater than 35%

= Fraction between 20 et 35% Adjective

= Fraction between 10 et 20% "some"

= Fraction less than 10% "trace"

SOIL CLASSIFICATION

Clay = Particles < 0,002 mm

Silt = From 0,002 to 0,08 mm

= From 0,08 to 0,4 mm Sand: fine

> = From 0,4 to 1,0 mm medium

= From 1,0 to 5,0 mm coarse

Gravel: fine = From 5 to 10 mm

> = From 10 to 80 mm coarse

= From 80 to 300 mm Cobbles

Boulders = Particles > 300 mm

Backfill material

STATE

Symbol

 \times

Moved

Intact

Core

= Empty

NOTE:

Soil description is only based on visual observations realized for an environmental characterization. It can not be use for geotechnical interpretation.



Project: Phase II - E.S.A.

Ref. number: HARN1660

Client: Harnois Groupe Immobilier inc.
Site: 1660, Merivale Road,

Nepean, Ottawa, Ontario

Date:

9 July 2024

Survey effectued by:

Succession Forage

Borehole number: BH-01

Downing

	Stratigraphy	Samples Samples						\dashv								
	Changraphy		\dashv					_				atio	n T		\dashv	
					%	تِ				si						_
Depth (m)	Soil description		_			Identification	VOC (ppm)		Olfactive			a		<u>.</u>		Water level
)eptl			Symbol	Condition	Recovery	ntific	<u>ဒ</u>)Ifac			Visual		Analysis	Results	ter
0.00			Š	ဝိ	Re	Ide	8	Α	P	F	Α	D	Ι	An	Re	Ns Ns
<u>0.02</u> 0. <u>1</u> 0	Asphalt Gray gravel backfill material with some sand, compact and dry		X	\setminus		BH-01-1	2									_
	Dark beige sand backfill material, compact and dry		\boxtimes	VI												7
			XX/	\mathbb{N}		BH-01-2	0									4
-			▓	\	58				ļ							4
			\otimes													4
1.20			\otimes													=
1.40	Dark beige sand backfill material with some clay, steep and dry		\bigotimes			BH-01-3	0						• •			=
1.40	Dark green gray clayey silt with traces of sand, steep and dry		*** 	\backslash / \mid									• • •			ᆿ
		<u> </u>				BH-01-4	0									=
1.80	Dark beige marbled black silty sand, compact and dry			$/ \setminus$	67	BH-01-5	0									=
2—				\												\exists
																_
2.40	Beige clayey silt with some gravel and traces of sand, steep and dry		·····						ļ							_
		į		VI	100	BH-01-6	0							F1-F4 BTEX		\exists
			빏,	\bigwedge	100	DUP#7	ľ							Hn	$ $	-
3.00	Refusal at 3.00 meters		<u>!;;!</u> /	\ 					H				+		\dashv	
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Note: -	———— Stratigraphic unit limit		۱۸/۰	ritta	en l	nv: Da	vid	<u>ر</u>	سا	ــــا خ	ter	└── \h				\dashv
- -	Internal statigraphic unit change Survey limit					by: Ma							MC	CΔ D I	=na	
See the "lo	g information description" for symbols and nomenclature information.											ııy,	IVIC	,o,⊤ .[_119.	
		Date: 6 August 2024														



Project: Phase II - E.S.A.

Ref. number: HARN1660

Client: Harnois Groupe Immobilier inc.

Site: 1660, Merivale Road, Nepean, Ottawa, Ontario Date:

9 July 2024

Survey effectued by:

Succession Forage

Borehole number: BH-02

Downing

	Stratigraphy	Samples						\dashv							
							_		am	nina	atio	n		П	
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Depth (m)	Soil description	<u> </u>	lition	very	ificat	(ppr		activ			isua		/sis	lts	<u>r</u>
		Symbol	Condition	Recovery %	Identification	VOC (ppm)	_	9	_	Λ.	U Visual		Analysis	Results	Water level
0.00 _0.02		₩.		\vdash	BH-02-1		A		<u> </u>	Α		<u> </u>			_
<u> </u>	Dark beige sand backfill material, compact and dry	₩	$\backslash /$		Di 1-02-1	۱.Ÿ.									4
		\bigotimes	X		BH-02-2	0									₫
		\bigotimes	$/ \setminus$	75	DI 1-02-2										=
		\bigotimes													=
1.20		\bigotimes													\exists
	Dark beige sand backfill material, compact and dry	\bigotimes	\ /		BH-02-3	0									=
1.50	Brown beige clayey silt, steep and dry	$\bigotimes_{i:i}$	$ \rangle /$												\exists
-			I X	92	BH-02-4	0									=
2.00	Oppose hains sittle and appose to address id														\exists
- 2.10	Orange beige silty sand, compact and humid Beige clayey silt with traces of sand, steep and humid		$V \setminus$		BH-02-5 BH-02-6										=
2.40	Beige clayey silt with some sand, steep and saturated														=
2.60	Gray clayey slit with some sand, steep and saturated Gray clayey silt with traces of sand, steep and saturated		\mathbb{N}		BH-02-7	0									Ξ
	oray dayey an wan traces of same, steep and saturated	闘		100	BH-02-8	0							F1-F4 BTEX Hn		=
3 3.00	Refusal at 3.00 meters	<u> :i:</u>	<u>/ \</u>									\dashv		H	\exists
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Note: -	Stratigraphic unit limit	\	ritte	en I	bv: Da	ı ıvid	S	auv	∟ ∕é.	ter	ш :h.	!			
- -	Internal statigraphic unit change Survey limit	1			by: Ma							MS	3cA,P.I	Ξng.	
See the "lo	og information description" for symbols and nomenclature information.	1	ate:		-						٥,		,	J	
		Date: 6 August 2024													



BOREHOLE LOG

Project: Phase II - E.S.A.

Ref. number: HARN1660

Client: Harnois Groupe Immobilier inc.
Site: 1660, Merivale Road,

Nepean, Ottawa, Ontario

Date:

9 July 2024

Survey effectued by:

Succession Forage

Borehole number: BH-03

Downing

			 Stratigraphy		Samples Samples						П							
	ŀ		- Changraphy											itio	n T			
	ے						%	<u> </u>				sig			_			_
1	Depth (m)		Soil description		_	ion		catic	mdd		Olfactive			Visual		. <u>s</u>	S	leve
	Deb				Symbol	Condition	Recovery	Identification	VOC (ppm)		Offa					Analysis	Results	Water level
0.	.00 .02	Asphalt			χχ.	Ö	Ř	Ď	>	Α	Р	F	Α	D	1	⋖	Ř	>
1]	.30	Beige gray gravel back	kfill material, loose and dry		\bowtie	$\backslash /$		BH-03-1	0									
-	. <u>.</u>	Beige sand backfill ma	aterial, compact and dry		\bowtie	I X		BH-03-2							1			
					\bowtie	$/\!\!/$	75	DUP#1	0									
					\bowtie	/ \												
1—					\otimes													$\left \cdot \right $
1.	.20	Beige sand backfill ma	aterial, compact and saturated with water		\bowtie	\ /												
					\bowtie	$\mathbb{N}/$		BH-03-3	0									
11.	.60	Gray clayey silt with tra	aces of sand, steep and humid		$\stackrel{\times\!\!\times}{}$	X									- -			
-						$ \rangle $	92	BH-03-4	0									
2—						/ \												
	.40																	
	.60	Gray clayey silt with tr	races of sand, steep and humid			\ /		BH-03-5	0			• •			- -			
+=	. <u>.</u>	Gray clayey silt with tr	races of sand, steep and saturated			X.	100									F1-F4		
3.	.00					$/ \setminus$		BH-03-6	0							BTEX Hn	0	
3			Refusal at 3.00 meters															
_																		
4—																		
5 -																		
Note:	: <u>-</u>	Stratigraphic	c unit limit igraphic unit change		w	ritte	en l	by: Da	vid	Sa	auv	é, 1	tec	h.	_			
	_	Survey limit			CI	hek	ed	by: Ma	athi	eu	Bé	lisle	e,Ir	ng,l	MS	cA,P.I	Eng	ı.
See the	e "lo	g information description"	for symbols and nomenclature information.		Da	ate:		6 /	٩ug	jus	t 20)24	ļ					



Project: Phase II - E.S.A.

Ref. number: HARN1660

Client: Harnois Groupe Immobilier inc.
Site: 1660, Merivale Road,

ite: 1660, Merivale Road, Nepean, Ottawa, Ontario Date:

Survey effectued by: Succession Forage

Downing

9 July 2024

Borehole number: BH-04

Equipement: Geoprobe 6622DT Sampler type: 4' plastic liner

Sampled by: David Sauvé

			<u> </u> Stratigraphy		Samples Samples						П							
			Guangraphy		+					_				tior	T			
								_		Ľ	J110	sig		tioi				
	Depth (m)		Soil description			n	ry %	Identification	pm)		live			<u>a</u>		w		evel
	epth		'		Symbol	Condition	Recovery	ıtific	VOC (ppm)		Olfactive		:	Visual		Analysis	ults	Water level
	O.00				Syn	Con	Rec	lder	Š	A		F		D	+	Ana	Results	Wat
_	0.00	Asphalt	aterial, compact and dry		\boxtimes						•	•		<u>. </u>	' -			П
_			atorial, sompast and any		\boxtimes	\bigvee		BH-04-1	0									
_	<u>0.40</u>	Beige sand backfill ma	aterial, compact and dry		\boxtimes	\bigwedge								.	-			ᆸ
_					\bowtie	/ ∖	58	BH-04-2	0									
_					\aleph													
1—					\otimes													$ \exists$
_	1.20	Pale heige silty sand h	backfill material with some gravel, compact and dry		X									.	.			-
_	1.40		fill material with some gravel, compact and dry		X	1		BH-04-3	0						.			
_	4 70		illi materiai with some graver, compact and numid		\boxtimes	\bigvee		BH-04-4	0									
_	1.70		It with traces of sand, steep and dry		盥	X	83							.		 AH		
2—						$/ \setminus$		BH-04-5	0						В	1-F4 TEX	00	
_						\		DUP#2							H M	n ITX	0	-
_	2.40																	1
		Beige clayey silt with	traces of sand, steep and dry			\ /		BH-04-6	0						1			14
_	2.60 2.70	Gray clayey silt with tr	races of sand, steep and saturated with traces of sand and of dark brown stain, steep and		閉	X		BH-04-7	0							1-F4		
_		saturated	with traces of same and of dark blown stain, steep and			$/ \setminus$	60	BH-04-8	0							TEX	000	
3—	0.00													.	-	"		亅
_	3.20		Refusal at 3.20 meters		1;1;									+	+			Н
_																		
-																		-
_																		-
4—																		-
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5 																		님
Not	te: -	Stratigraphic	c unit limit		\^/	-:44	L	N# D=	اء:ري		<u></u>	ر ک	!o -	<u> </u>				닉
	-		igraphic unit change					•	avid									
See	the "lo		" for symbols and nomenclature information.					by: Ma						ıg,ſ\	VISC	A,P.I	=ng	-
				Date: 6 August 2024														



BOREHOLE LOG Borehole number: BH-05

Project: Phase II - E.S.A. Ref. number: HARN1660

Client: Harnois Groupe Immobilier inc.

Site: 1660, Merivale Road,

Nepean, Ottawa, Ontario

Date: 9 July 2024

Survey effectued by: Succession Forage

Downing

		Stratigraphy	Samples contamination													
	m)				%	ion	n)			siç	gn		n			<u>ө</u>
	Depth (m)	Soil description	Symbol	Condition	Recovery	dentification	VOC (ppm)		Olfactive			Visual		Analysis	Results	/ater lev
	0.00	Asphalt	ω ××	$\frac{\circ}{\Box}$	R	2	_	Α	Р	F	Α	D	1	_ <	<u>~</u>	_
	0.40	Beige gray sandy gravel backfill material, loose and dry	\bigotimes	\bigvee		BH-05-1										-
		Dark beige sand backfill material, loose and dry		$/ \setminus$	58	BH-05-2 DUP#3	0									
- 1 -	1.20															- - -
-		Dark beige sand backfill material, loose and dry		\bigvee		BH-05-3	0				•			PAH F1-F4 BTEX Hn MTX	00000	
2-	1.80	Pale brown clayey silt with traces of sand, steep and dry	X	$/ \setminus$	75	BH-05-4	0									
- - -	<u>2.4</u> 0_	Pale beige clayey silt with traces of sand, steep and humid		$\setminus /$		BH-05-5	0									
3—	3. <u>0</u> 0 3.30	Gray clayey silt with some sand, steep and saturated		\bigwedge	100									PAH F1-F4 BTEX		
7	0.00	Refusal at 3.30 meters						П					٦L	Hn MTX	00	
-)	-
4 																_
-																
-																
5—																
Note: Stratigraphic unit limit Internal statigraphic unit change Survey limit See the "log information description" for symbols and nomenclature information.					-							ИS	ScA,P.E	Eng		
See 1	ıne "IC	g illiorniation description for symbols and nomenclature information.	Date: 6 August 2024													



Project: Phase II - E.S.A.

Ref. number: HARN1660
Client: Harnois Groupe Immobilier inc.

Site: 1660, Merivale Road,

Nepean, Ottawa, Ontario

Date:

9 July 2024

Survey effectued by:

Succession Forage

Borehole number: BH-06

Downing

	Stratigraphy	Samples contamination													
Depth (m)	Soil description	Symbol	Condition	Recovery %	Identification	VOC (ppm)		Olfactive	sig	gn	Visual		Analysis	Results	Water level
0.00	Asphalt Gray gravel backfill material with some sand, loose and dry Dark beige clayey sand backfill material, compact and dry	S			BH-06-1	0	A 	P	F 	Α	D	1	∢		×
1.20	Dark beige sand backfill material, compact and dry		\bigvee	83	BH-06-3 DUP#6	0									
2.40			$\langle \cdot \rangle$		BH-06-4 BH-06-5								F1-F4 BTEX Hn		
3-3.30	Refusal at 3.30 meters		/ \												- - - - - - - -
4															
Note:															



Project: Phase II - E.S.A.

Ref. number: **HARN1660**

Client: Harnois Groupe Immobilier inc. Site: 1660, Merivale Road,

Nepean, Ottawa, Ontario

Date: 9 July 2024

Sampled by:

Survey effectued by: Succession Forage

Downing

Borehole number: BH-07 (reprise 2)

Equipement: Geoprobe 6622DT Sampler type: 4' plastic liner David Sauvé

Stratigraphy Samples contamination sign dentification Depth (m) Water level VOC (ppm) Olfactive Recovery Condition Visual Soil description Analysis Results Symbol AΙΡ FAD 0.00 0.02Gray gravel backfill material, compact and dry BH-07-1 (reprise 2) 0.30 Dark beige sand backfill material, compact and dry BH-07-2 (reprise 2) 0 DUP#5 1.20 Pale brown sandy and clayey silt, steep and humid BH-07-3 (reprise 2) 92 Dark green clayey silt with traces of sand, steep and dry BH-07-4 0 (reprise 2) 2.40 BH-07-5 Beige gray clayey silt with traces of sand, steep and saturated with water 0 000 F1-F4 BH-07-6 0 **BTEX** (reprise 2) 3 3.30 Refusal at 3.30 meters Note: Stratigraphic unit limit Written by: David Sauvé, tech. Internal statigraphic unit change Survey limit Cheked by: Mathieu Bélisle, Ing, MScA, P. Eng. See the "log information description" for symbols and nomenclature information. Date: 6 August 2024



Phase II - E.S.A. Project:

Ref. number: HARN1660

Client: Harnois Groupe Immobilier inc. Site: 1660, Merivale Road,

Nepean, Ottawa, Ontario

Date:

9 July 2024

Survey effectued by: Succession Forage

Downing

Borehole number: BH-08

Equipement: Geoprobe 6622DT 4' plastic liner Sampler type: Sampled by: David Sauvé

					Sampled by: David Sauvé Samples					Щ								
			Stratigraphy							Sa	ımp	ole	S					
	(%				ont	am siç		atio	n			
	S Depth (m)		Soil description		Symbol	Condition	Recovery 9	Identification	VOC (ppm)	A	П Olfactive	F		☐ Visual	I	Analysis	Results	Water level
	0.20	Gray gravel backfill ma	ackfill material with some clay, compact and dry aterial, compact and dry fill material, compact and dry		$\overset{\otimes}{\otimes}$	\bigvee		BH-08-1 BH-08-2	0									-
- - - 1-	1.20					/\	50	BH-08-3	0									
		Beige sand backfill ma	aterial with some gravel, compact and dry			\bigvee		BH-08-4										
2— 2— - -	2.40				$\overset{\otimes}{\overset{\otimes}{\overset{\otimes}{\overset{\otimes}{\overset{\otimes}{\overset{\otimes}{\overset{\otimes}{\overset{\otimes}$	/\	67	BH-08-5	0									- - - -
_	2.80	Pale brown clayey and	d sandy silt , steep and humid		X	$\setminus /$		BH-08-6 DUP#4	0									<u>-</u> - -
3—	3.30	Pale brown clayey silt	with some sand, steep and humid			$/\!\!/$	100	BH-08-7	0							PAH F1-F4 BTEX Hn MTX	00000	 - - -
_	0.00		Refusal at 3.30 meters												1			
-																		-
4												- - -						
- - - - 5—																		
	Note: Stratigraphic unit limit Internal statigraphic unit change Survey limit See the "log information description" for symbols and nomenclature information. Written by: David Sauvé, tech. Cheked by: Mathieu Bélisle,Ing,MScA,P.Eng. Date: 6 August 2024									J.								

APPENDIX 5 Photographic Report



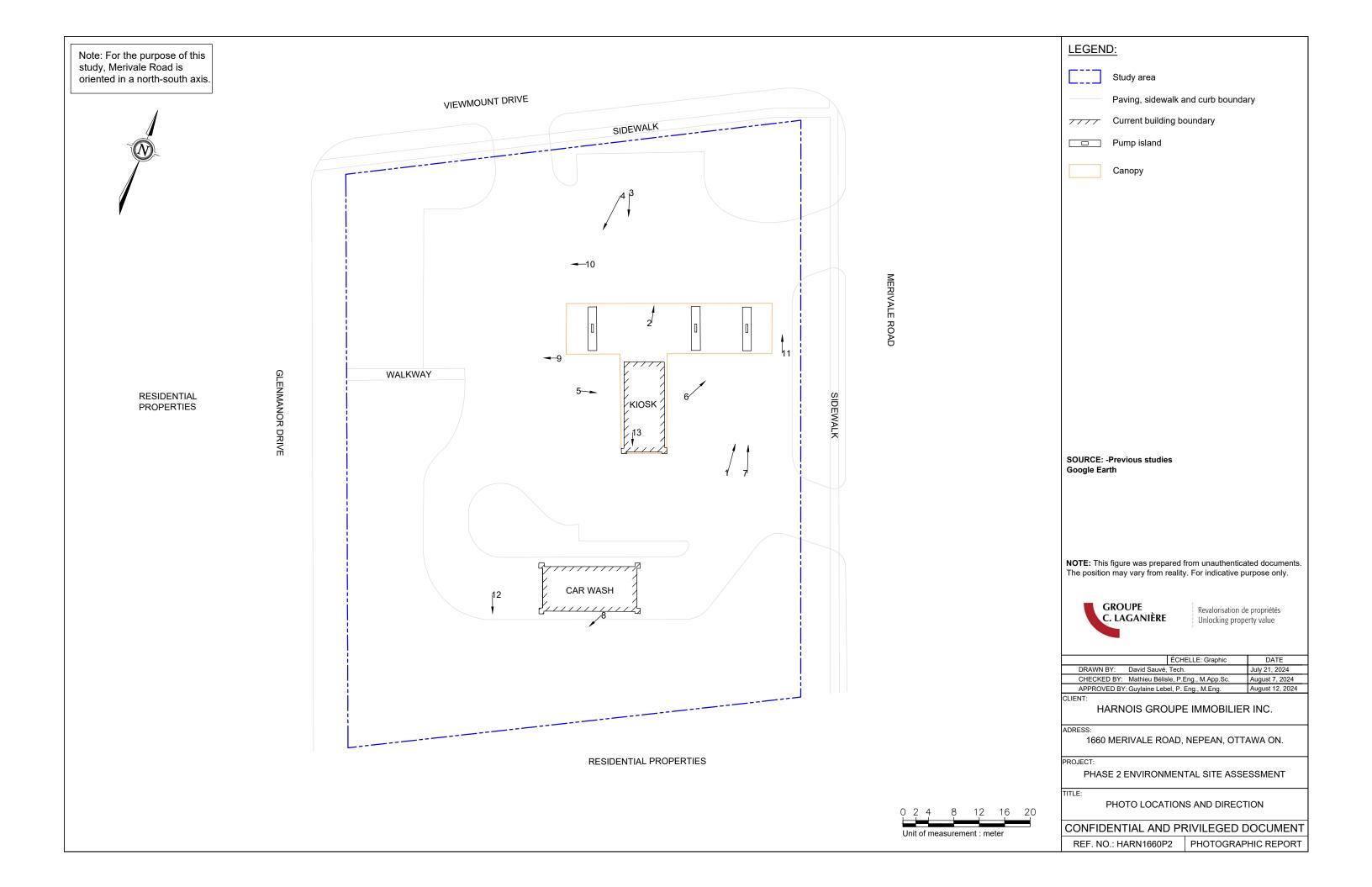




Photo 1: BH-01



Description: View of the realization of borehole BH-01, located northeast of the pump islands and southeast of the underground tanks.

Photo 2: BH-02



Description: View of the realization of borehole BH-02, located northwest of the underground tanks.

Photo 3: BH-03



Description: View of the realization of borehole BH-03 at the location of a former pump island, north of the actual ones.

Photo 4: BH-04



Description: View of the realization of borehole BH-04, located west of the pump islands.

PHOTOGRAPI	HIC REPORT		1/3
Project :	Phase II ESA	Site :	1660 Merivale Road, Nepean, Ottawa, Ontario
File:	HARN1660P2	Written by :	Mathieu Bélisle, P.Eng., M.App.Sc.
Fieldwork:	July 8, 2024	Verified by :	Guylaine Lebel, P.Eng, M.Eng.



Photo 5: BH-05



Description: View of BH-05 at the location of a former mechanical garage, southwest of the pump islands.

Photo 6 : BH-06



Description: View of the realization of borehole BH-06 at the location of a former pump island, southeast of the actual ones.

Photo 7: BH-07



Description: View of the realization of borehole BH-07, located southeast of the pump islands and south of borehole 23F01.

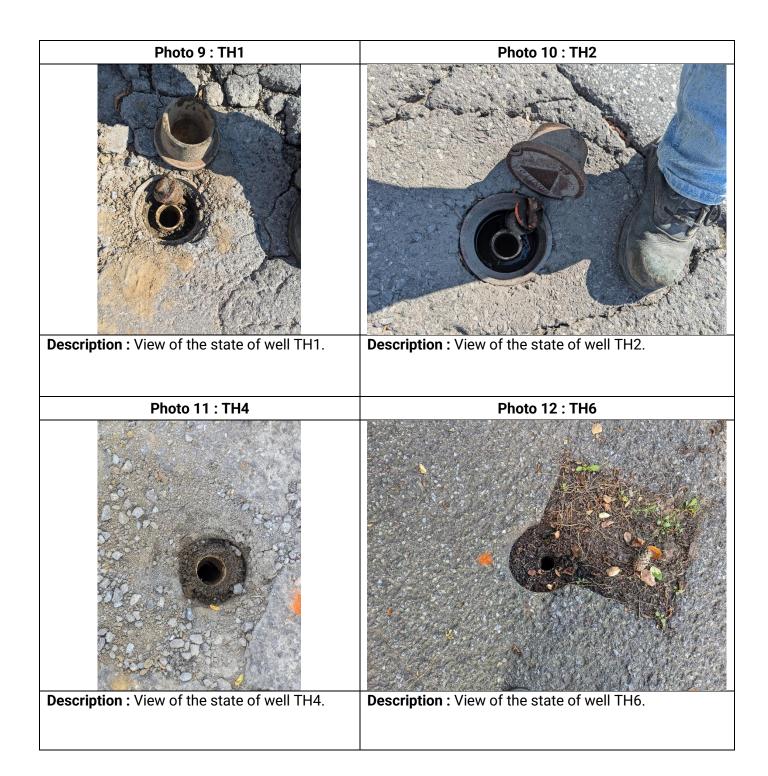
Photo 8: BH-08



Description : View of BH-08 located south of the carwash.

PHOTOGRAPI	HIC REPORT		2/3
Project :	Phase II ESA	Site :	1660 Merivale Road, Nepean, Ottawa, Ontario
File:	HARN1660P2	Written by :	Mathieu Bélisle, P.Eng., M.App.Sc.
Fieldwork:	July 8, 2024	Verified by :	Guylaine Lebel, P.Eng, M.Eng.





PHOTOGRAPI	HIC REPORT		3/3
Project :	Phase II ESA	Site :	1660 Merivale Road, Nepean, Ottawa, Ontario
File:	HARN1660P2	Written by:	Mathieu Bélisle, P.Eng., M.App.Sc.
Fieldwork:	July 8, 2024	Verified by :	Guylaine Lebel, P.Eng, M.Eng.

APPENDIX 6 Chemical Analysis Certificates





Your P.O. #: 01-14014 Your Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

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

Attention: Mathieu Bélisle
GROUPE C. LAGANIERE INC.
35 avenue Laganiere
Montréal-Est, QC
CANADA H1B 5T1

Report Date: 2024/08/08

Report #: R2967337 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C437803 Received: 2024/07/12, 12:30

Sample Matrix: Soil # Samples Received: 11

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
VOC in soils - Methanol Field Preserved (1)	11	N/A	2024/07/19	STL SOP-00145	MA.400-COV 2.0 R4 m
F1-BTEX (CCME)-Methanol Field Preserved (2)	11	N/A	2024/07/19	STL SOP-00131	CCME PHC-CWS m
Petroleum Hydrocarbons (F2-F4)-soil (3)	2	2024/07/19	2024/07/22	STL SOP-00170	CCME PHC-CWS m
Petroleum Hydrocarbons (F2-F4)-soil (3)	9	2024/07/19	2024/07/23	STL SOP-00170	CCME PHC-CWS m
Total Extractable Metals in soils	5	2024/07/20	2024/07/24	STL SOP-00062	MA.200–Mét. 1.2 R7 m
	_			STL SOP-00069	
Total Extractable Metals in soils	6	2024/08/06	2024/08/07	STL SOP-00062 STL SOP-00069	MA.200–Mét. 1.2 R7 m
PAH in soil	5	2024/07/20	2024/07/21	STL SOP-00178	MA.400-HAP 1.1 R5 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, EPA, APHA or the Quebec Ministry of Environment.

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.

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

- (1) No lab extraction date is given for F1/BTEX and VOC analyses for samples that are field preserved with methanol. Extraction date is date sampled unless otherwise stated.
- (2) All CCME 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



Your P.O. #: 01-14014

Your Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

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

Attention: Mathieu Bélisle

GROUPE C. LAGANIERE INC. 35 avenue Laganiere Montréal-Est, QC CANADA H1B 5T1

Report Date: 2024/08/08

Report #: R2967337 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C437803

Received: 2024/07/12, 12:30

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.

No lab extraction date is given for F1/BTEX and VOC analyses for samples that are field preserved with methanol. Extraction date is date sampled unless otherwise stated.

(3) All CCME 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.

Note: All parameters included in the present certificate are accredited by the Québec Ministry of the Environment, unless stated otherwise.

Encryption Key

Hafsa Zaki Project Manager 1 08 Aug 2024 16:37:08

Please direct all questions regarding this Certificate of Analysis to:

Hafsa Zaki, Project Manager 1
Email: hafsa.zaki@bureauveritas.com

Phone# (438)221-2672

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 Aglaia Yannakis, General Manager responsible for Quebec Environmental laboratory operations.



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

PETROLEUM HYDROCARBONS F1BTEX (SOIL)

Bureau Veritas ID					NF9604		NF9604		NF9605		NF9606			
Sampling Date					2024/07/09		2024/07/09		2024/07/09		2024/07/09			
	Units	А	В	С	BH-01-6	CR	BH-01-6 Lab-Dup	CR	BH-02-8	CR	BH-03-6	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	9.5		9.5		7.6		16		N/A	N/A
VOLATILES														
Benzene	mg/kg	0.2	0.5	5	<0.0050		<0.0050		<0.0050		<0.0050		0.0050	2546235
Toluene	mg/kg	0.2	3	30	<0.050		<0.050		<0.050		<0.050		0.050	2546235
Ethylbenzene	mg/kg	0.2	5	50	<0.010		<0.010		<0.010		<0.010		0.010	2546235
p+m-Xylene	mg/kg	-	-	-	<0.040		<0.040		<0.040		<0.040		0.040	2546235
o-Xylene	mg/kg	-	-	-	<0.020		<0.020		<0.020		<0.020		0.020	2546235
Total_Xylenes †	mg/kg	0.4	5	50	<0.040		<0.040		<0.040		<0.040		0.040	2546235
F1 (C6-C10) †	mg/kg	-	-	-	<10		<10		<10		<10		10	2546235
F1 (C6-C10) - BTEX †	mg/kg	1	ı	1	<10		<10		<10		<10		10	2546235
Surrogate Recovery (%)														
1,4-Difluorobenzene	%	-	-	-	99		98		98		98		N/A	2546235
4-Bromofluorobenzene	%	-	-	-	75		76		80		81		N/A	2546235
D10-Ethylbenzene	%	-	-	-	73		86		80		93		N/A	2546235
D4-1,2-Dichloroethane	%	-	-	-	106		105		104		103		N/A	2546235

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

PETROLEUM HYDROCARBONS F1BTEX (SOIL)

Bureau Veritas ID					NF9607		NF9608		NF9609		NF9610			
Sampling Date					2024/07/09		2024/07/09		2024/07/09		2024/07/09			
	Units	Α	В	С	BH-04-5	CR	DUP#2	CR	BH-04-8	CR	BH-05-3	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	20		19		33		7.2		N/A	N/A
VOLATILES	•												•	
Benzene	mg/kg	0.2	0.5	5	0.0066	<a< td=""><td><0.0050</td><td></td><td><0.0050</td><td></td><td><0.0050</td><td></td><td>0.0050</td><td>2546235</td></a<>	<0.0050		<0.0050		<0.0050		0.0050	2546235
Toluene	mg/kg	0.2	3	30	<0.050		<0.050		<0.050		<0.050		0.050	2546235
Ethylbenzene	mg/kg	0.2	5	50	<0.010		<0.010		<0.010		<0.010		0.010	2546235
p+m-Xylene	mg/kg	-	-	-	<0.040		<0.040		<0.040		<0.040		0.040	2546235
o-Xylene	mg/kg	-	-	-	<0.020		<0.020		<0.020		<0.020		0.020	2546235
Total_Xylenes †	mg/kg	0.4	5	50	<0.040		<0.040		<0.040		<0.040		0.040	2546235
F1 (C6-C10) †	mg/kg	-	-	-	<10		<10		<10		<10		10	2546235
F1 (C6-C10) - BTEX †	mg/kg	-	-	-	<10		<10		<10		<10		10	2546235
Surrogate Recovery (%)														
1,4-Difluorobenzene	%	-	-	-	99		100		98		98		N/A	2546235
4-Bromofluorobenzene	%	-	-	-	77		79		75		76		N/A	2546235
D10-Ethylbenzene	%	-	-	-	85		67		83		89		N/A	2546235
D4-1,2-Dichloroethane	%	-	-	-	105		107		106		104		N/A	2546235

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

PETROLEUM HYDROCARBONS F1BTEX (SOIL)

Bureau Veritas ID					NF9611		NF9612		NF9613			
Sampling Date					2024/07/09		2024/07/09		2024/07/09			
	Units	Α	В	С	BH-05-6	CR	BH-06-5	CR	BH-07-6(REPRISE 2)	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	7.5		23		9.5		N/A	N/A
VOLATILES												
Benzene	mg/kg	0.2	0.5	5	<0.0050		<0.0050		<0.0050		0.0050	2546235
Toluene	mg/kg	0.2	3	30	<0.050		<0.050		<0.050		0.050	2546235
Ethylbenzene	mg/kg	0.2	5	50	<0.010		1.3	A-B	<0.010		0.010	2546235
p+m-Xylene	mg/kg	-	-	-	<0.040		5.1		<0.040		0.040	2546235
o-Xylene	mg/kg	-	-	-	<0.020		0.17		<0.020		0.020	2546235
Total_Xylenes †	mg/kg	0.4	5	50	<0.040		5.2	В-С	<0.040		0.040	2546235
F1 (C6-C10) †	mg/kg	-	-	-	<10		30		<10		10	2546235
F1 (C6-C10) - BTEX †	mg/kg	-	-	-	<10		24		<10		10	2546235
Surrogate Recovery (%)												
1,4-Difluorobenzene	%	-	-	-	97		95		97		N/A	2546235
4-Bromofluorobenzene	%	-	-	-	82		105		78		N/A	2546235
D10-Ethylbenzene	%	-	-	-	84		89		89		N/A	2546235
D4-1,2-Dichloroethane	%	-	-	-	104		100		104		N/A	2546235

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

PETROLEUM HYDROCARBONS F1BTEX (SOIL)

Bureau Veritas ID					NF9614			
Sampling Date					2024/07/09			
	Units	Α	В	С	BH-08-7	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	27		N/A	N/A
VOLATILES								
Benzene	mg/kg	0.2	0.5	5	<0.0050		0.0050	2546235
Toluene	mg/kg	0.2	3	30	<0.050		0.050	2546235
Ethylbenzene	mg/kg	0.2	5	50	<0.010		0.010	2546235
p+m-Xylene	mg/kg	-	-	1	<0.040		0.040	2546235
o-Xylene	mg/kg	-	ı	ı	<0.020		0.020	2546235
Total_Xylenes †	mg/kg	0.4	5	50	<0.040		0.040	2546235
F1 (C6-C10) †	mg/kg	-	-	-	<10		10	2546235
F1 (C6-C10) - BTEX †	mg/kg	-	-	-	<10		10	2546235
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	-	-	-	99		N/A	2546235
4-Bromofluorobenzene	%	-	-	-	75		N/A	2546235
D10-Ethylbenzene	%	-	-	-	88		N/A	2546235
D4-1,2-Dichloroethane	%	-	-	1	103		N/A	2546235

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Report Date: 2024/08/08

GROUPE C. LAGANIERE INC. Client Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

PAH BY GCMS (SOIL)

Bureau Veritas ID					NF9607		NF9608		NF9610		NF9611			
Sampling Date					2024/07/09		2024/07/09		2024/07/09		2024/07/09			
	Units	Α	В	С	BH-04-5	CR	DUP#2	CR	BH-05-3	CR	BH-05-6	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	20		19		7.2		7.5		N/A	N/A
PAH	•								•					
Acenaphthene	mg/kg	0.1	10	100	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Acenaphthylene	mg/kg	0.1	10	100	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Anthracene	mg/kg	0.1	10	100	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Benzo(a)anthracene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Benzo(a)pyrene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Benzo(b)fluoranthene †	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Benzo(j)fluoranthene †	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Benzo(k)fluoranthene †	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Benzo(c)phenanthrene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Benzo(ghi)perylene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Chrysene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Dibenzo(a,h)anthracene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Dibenzo(a,i)pyrene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Dibenzo(a,h)pyrene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Dibenzo(a,l)pyrene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
7,12-Dimethylbenzanthracene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Fluoranthene	mg/kg	0.1	10	100	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Fluorene	mg/kg	0.1	10	100	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
3-Methylcholanthrene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Naphthalene	mg/kg	0.1	5	50	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Phenanthrene	mg/kg	0.1	5	50	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Pyrene	mg/kg	0.1	10	100	<0.10		<0.10		<0.10		<0.10		0.10	2546713
2-Methylnaphthalene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
1-Methylnaphthalene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
1,3-Dimethylnaphthalene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
2,3,5-Trimethylnaphthalene	mg/kg	0.1	1	10	<0.10		<0.10		<0.10		<0.10		0.10	2546713
Surrogate Recovery (%)									·		<u> </u>			
D10-Anthracene	%	-	_	-	76		75		74		75		N/A	2546713
D12-Benzo(a)pyrene	%	-	-	-	77		77		77		76		N/A	2546713
D14-Terphenyl	%	-	-	1	75		74		71		72		N/A	2546713
D8-Acenaphthylene	%	-	-	-	76		75		76		76		N/A	2546713

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Bureau Veritas Job #: C437803 Report Date: 2024/08/08 GROUPE C. LAGANIERE INC. Client Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

PAH BY GCMS (SOIL)

Bureau Veritas ID					NF9607		NF9608		NF9610		NF9611			
Sampling Date					2024/07/09		2024/07/09		2024/07/09		2024/07/09			
	Units	Α	В	С	BH-04-5	CR	DUP#2	CR	BH-05-3	CR	BH-05-6	CR	RDL	QC Batch
D8-Naphthalene	%				79		78		78		79		N1 / A	2546713

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Report Date: 2024/08/08

GROUPE C. LAGANIERE INC. Client Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

PAH BY GCMS (SOIL)

Bureau Veritas ID					NF9614			
Sampling Date					2024/07/09			
	Units	Α	В	С	BH-08-7	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	27		N/A	N/A
PAH								
Acenaphthene	mg/kg	0.1	10	100	<0.10		0.10	2546713
Acenaphthylene	mg/kg	0.1	10	100	<0.10		0.10	2546713
Anthracene	mg/kg	0.1	10	100	<0.10		0.10	2546713
Benzo(a)anthracene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Benzo(a)pyrene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Benzo(b)fluoranthene †	mg/kg	0.1	1	10	<0.10		0.10	2546713
Benzo(j)fluoranthene †	mg/kg	0.1	1	10	<0.10		0.10	2546713
Benzo(k)fluoranthene †	mg/kg	0.1	1	10	<0.10		0.10	2546713
Benzo(c)phenanthrene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Benzo(ghi)perylene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Chrysene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Dibenzo(a,h)anthracene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Dibenzo(a,i)pyrene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Dibenzo(a,h)pyrene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Dibenzo(a,l)pyrene	mg/kg	0.1	1	10	<0.10		0.10	2546713
7,12-Dimethylbenzanthracene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Fluoranthene	mg/kg	0.1	10	100	<0.10		0.10	2546713
Fluorene	mg/kg	0.1	10	100	<0.10		0.10	2546713
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	1	10	<0.10		0.10	2546713
3-Methylcholanthrene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Naphthalene	mg/kg	0.1	5	50	<0.10		0.10	2546713
Phenanthrene	mg/kg	0.1	5	50	<0.10		0.10	2546713
Pyrene	mg/kg	0.1	10	100	<0.10		0.10	2546713
2-Methylnaphthalene	mg/kg	0.1	1	10	<0.10		0.10	2546713
1-Methylnaphthalene	mg/kg	0.1	1	10	<0.10		0.10	2546713
1,3-Dimethylnaphthalene	mg/kg	0.1	1	10	<0.10		0.10	2546713
2,3,5-Trimethylnaphthalene	mg/kg	0.1	1	10	<0.10		0.10	2546713
Surrogate Recovery (%)	•						-	-
D10-Anthracene	%	-	-	-	73		N/A	2546713
D12-Benzo(a)pyrene	%	-	-	-	76		N/A	2546713
D14-Terphenyl	%	-	-	-	72		N/A	2546713
D8-Acenaphthylene	%	-	-	-	74		N/A	2546713

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

PAH BY GCMS (SOIL)

Bureau Veritas ID					NF9614			
Sampling Date					2024/07/09			
	11		-)	DII 00 7	CD	DDI	OC Datab
	Units	Α	В	١	BH-08-7	CR	KDL	QC Batch

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

HYDROCARBONS BY GCFID (SOIL)

Bureau Veritas ID		NF9604	NF9605	NF9606	NF9607	NF9608	NF9609	NF9610		
Sampling Date		2024/07/09	2024/07/09	2024/07/09	2024/07/09	2024/07/09	2024/07/09	2024/07/09		
	Units	BH-01-6	BH-02-8	BH-03-6	BH-04-5	DUP#2	BH-04-8	BH-05-3	RDL	QC Batch
% MOISTURE	%	9.5	7.6	16	20	19	33	7.2	N/A	N/A
PETROLEUM HYDROCARBON	IS									
F2 (C10-C16) †	mg/kg	<10	<10	<10	<10	<10	<10	<10	10	2546605
F3 (C16-C34) †	mg/kg	<50	<50	<50	<50	<50	<50	<50	50	2546605
F4 (C34-C50) †	mg/kg	<50	<50	<50	<50	<50	<50	<50	50	2546605
Reached Baseline at C50 †	mg/kg	Yes	N/A	2546605						
Surrogate Recovery (%)										
O-Terphenyl	%	97	98	95	94	96	90	94	N/A	2546605

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

† Parameter is not accreditable

Bureau Veritas ID		NF9611	NF9612	NF9613	NF9614	NF9614		
Sampling Date		2024/07/09	2024/07/09	2024/07/09	2024/07/09	2024/07/09		
	Units	BH-05-6	BH-06-5	BH-07-6(REPRISE 2)	BH-08-7	BH-08-7 Lab-Dup	RDL	QC Batch
% MOISTURE	%	7.5	23	9.5	27	27	N/A	N/A
PETROLEUM HYDROCARBO	NS.							
F2 (C10-C16) †	mg/kg	<10	680	<10	<10	<10	10	2546605
F3 (C16-C34) †	mg/kg	<50	140	<50	<50	<50	50	2546605
F4 (C34-C50) †	mg/kg	<50	<50	<50	<50	<50	50	2546605
Reached Baseline at C50 †	mg/kg	Yes	Yes	Yes	Yes	Yes	N/A	2546605
Surrogate Recovery (%)								
O-Terphenyl	%	93	91	98	87	84	N/A	2546605

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

VOC BY GC/MS (SOIL)

Bureau Veritas ID		NF9604	NF9604	NF9605	NF9606	NF9607	NF9608	NF9609		
Sampling Date		2024/07/09	2024/07/09	2024/07/09	2024/07/09	2024/07/09	2024/07/09	2024/07/09		
	Units	BH-01-6	BH-01-6 Lab-Dup	BH-02-8	BH-03-6	BH-04-5	DUP#2	BH-04-8	RDL	QC Batch
% MOISTURE	%	9.5	9.5	7.6	16	20	19	33	N/A	N/A
VOLATILES			•	•						
Hexane †	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2546240
Surrogate Recovery (%)										
4-Bromofluorobenzene	%	97	93	100	101	98	99	97	N/A	2546240
D10-Ethylbenzene	%	116	108	94	106	98	95	100	N/A	2546240
D4-1,2-Dichloroethane	%	119	118	119	117	122	117	116	N/A	2546240
D8-Toluene	%	101	102	100	102	103	102	100	N/A	2546240

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

† Parameter is not accreditable

		1	1			1		
Bureau Veritas ID		NF9610	NF9611	NF9612	NF9613	NF9614		
Sampling Date		2024/07/09	2024/07/09	2024/07/09	2024/07/09	2024/07/09		
	Units	BH-05-3	BH-05-6	BH-06-5	BH-07-6(REPRISE 2)	BH-08-7	RDL	QC Batch
% MOISTURE	%	7.2	7.5	23	9.5	27	N/A	N/A
VOLATILES								
Hexane †	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	2546240
Surrogate Recovery (%)	•	-	-			-		
4-Bromofluorobenzene	%	99	100	101	99	99	N/A	2546240
D10-Ethylbenzene	%	100	101	102	99	104	N/A	2546240
D4-1,2-Dichloroethane	%	121	121	116	113	121	N/A	2546240
D8-Toluene	%	102	103	104	102	101	N/A	2546240

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

† Parameter is not accreditable

2024/08/08 16:16



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

TOTAL EXTRACTABLE METALS (SOIL)

Bureau Veritas ID					NF9604		NF9605		NF9606			
Sampling Date					2024/07/09		2024/07/09		2024/07/09			
	Units	Α	В	С	BH-01-6	CR	BH-02-8	CR	BH-03-6	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	9.5		7.6		16		N/A	N/A
METALS												
Total Extractable Lead (Pb)	mg/kg	50	500	1000	5.3	<a< td=""><td>6.8</td><td><a< td=""><td>7.0</td><td><a< td=""><td>5.0</td><td>2552925</td></a<></td></a<></td></a<>	6.8	<a< td=""><td>7.0</td><td><a< td=""><td>5.0</td><td>2552925</td></a<></td></a<>	7.0	<a< td=""><td>5.0</td><td>2552925</td></a<>	5.0	2552925
Total Extractable Thallium (TI) †	mg/kg	-	-	-	<2.0		<2.0		<2.0		2.0	2552925

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

† Parameter is not accreditable

Bureau Veritas ID					NF9607		NF9607		NF9608			
Sampling Date					2024/07/09		2024/07/09		2024/07/09			
	Units	Α	В	С	BH-04-5	CR	BH-04-5 Lab-Dup	CR	DUP#2	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	20		20		19		N/A	N/A
METALS												
Total Extractable Arsenic (As)	mg/kg	6	30	50	<5.0		<5.0		<5.0		5.0	2546811
Total Extractable Cadmium (Cd)	mg/kg	1.5	5	20	<0.50		<0.50		<0.50		0.50	2546811
Total Extractable Chromium (Cr)	mg/kg	100	250	800	55	<a< td=""><td>51</td><td><a< td=""><td>55</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<></td></a<>	51	<a< td=""><td>55</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<>	55	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Cobalt (Co)	mg/kg	25	50	300	12	<a< td=""><td>12</td><td><a< td=""><td>12</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<></td></a<>	12	<a< td=""><td>12</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<>	12	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Copper (Cu)	mg/kg	50	100	500	26	<a< td=""><td>27</td><td><a< td=""><td>24</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<></td></a<>	27	<a< td=""><td>24</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<>	24	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Nickel (Ni)	mg/kg	50	100	500	29	<a< td=""><td>27</td><td><a< td=""><td>28</td><td><a< td=""><td>1.0</td><td>2546811</td></a<></td></a<></td></a<>	27	<a< td=""><td>28</td><td><a< td=""><td>1.0</td><td>2546811</td></a<></td></a<>	28	<a< td=""><td>1.0</td><td>2546811</td></a<>	1.0	2546811
Total Extractable Lead (Pb)	mg/kg	50	500	1000	8.9	<a< td=""><td>8.4</td><td><a< td=""><td>7.1</td><td><a< td=""><td>5.0</td><td>2546811</td></a<></td></a<></td></a<>	8.4	<a< td=""><td>7.1</td><td><a< td=""><td>5.0</td><td>2546811</td></a<></td></a<>	7.1	<a< td=""><td>5.0</td><td>2546811</td></a<>	5.0	2546811
Total Extractable Zinc (Zn)	mg/kg	140	500	1500	71	<a< td=""><td>67</td><td><a< td=""><td>66</td><td><a< td=""><td>10</td><td>2546811</td></a<></td></a<></td></a<>	67	<a< td=""><td>66</td><td><a< td=""><td>10</td><td>2546811</td></a<></td></a<>	66	<a< td=""><td>10</td><td>2546811</td></a<>	10	2546811

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Report Date: 2024/08/08

GROUPE C. LAGANIERE INC. Client Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

TOTAL EXTRACTABLE METALS (SOIL)

Bureau Veritas ID					NF9609			NF9610		NF9611			
Sampling Date					2024/07/09			2024/07/09		2024/07/09			
	Units	Α	В	С	BH-04-8	CR	QC Batch	BH-05-3	CR	BH-05-6	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	33		N/A	7.2		7.5		N/A	N/A
METALS													
Total Extractable Arsenic (As)	mg/kg	6	30	50	N/A		2546811	<5.0		<5.0		5.0	2546811
Total Extractable Cadmium (Cd)	mg/kg	1.5	5	20	N/A		2546811	<0.50		<0.50		0.50	2546811
Total Extractable Chromium (Cr)	mg/kg	100	250	800	N/A		2546811	4.0	<a< td=""><td>9.7</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<>	9.7	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Cobalt (Co)	mg/kg	25	50	300	N/A		2546811	3.1	<a< td=""><td>6.4</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<>	6.4	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Copper (Cu)	mg/kg	50	100	500	N/A		2546811	8.4	<a< td=""><td>11</td><td><a< td=""><td>2.0</td><td>2546811</td></a<></td></a<>	11	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Nickel (Ni)	mg/kg	50	100	500	N/A		2546811	4.9	<a< td=""><td>13</td><td><a< td=""><td>1.0</td><td>2546811</td></a<></td></a<>	13	<a< td=""><td>1.0</td><td>2546811</td></a<>	1.0	2546811
Total Extractable Lead (Pb)	mg/kg	50	500	1000	9.5	<a< td=""><td>2552925</td><td><5.0</td><td></td><td>7.0</td><td><a< td=""><td>5.0</td><td>2546811</td></a<></td></a<>	2552925	<5.0		7.0	<a< td=""><td>5.0</td><td>2546811</td></a<>	5.0	2546811
Total Extractable Thallium (Tl) †	mg/kg	-	-	-	<2.0		2552925	N/A		N/A		2.0	N/A
Total Extractable Zinc (Zn)	mg/kg	140	500	1500	N/A		N/A	11	<a< td=""><td>14</td><td><a< td=""><td>10</td><td>2546811</td></a<></td></a<>	14	<a< td=""><td>10</td><td>2546811</td></a<>	10	2546811

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

N/A = Not Applicable

† Parameter is not accreditable

Bureau Veritas ID					NF9612		NF9613			NF9614			
Sampling Date					2024/07/09		2024/07/09			2024/07/09			
	Units	Α	В	С	BH-06-5	CR	BH-07-6(REPRISE 2)	CR	QC Batch	BH-08-7	CR	RDL	QC Batch
% MOISTURE	%	-	-	-	23		9.5		N/A	27		N/A	N/A
METALS							•						
Total Extractable Arsenic (As)	mg/kg	6	30	50	N/A		N/A		2546811	<5.0		5.0	2546811
Total Extractable Cadmium (Cd)	mg/kg	1.5	5	20	N/A		N/A		2546811	<0.50		0.50	2546811
Total Extractable Chromium (Cr)	mg/kg	100	250	800	N/A		N/A		2546811	34	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Cobalt (Co)	mg/kg	25	50	300	N/A		N/A		2546811	7.7	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Copper (Cu)	mg/kg	50	100	500	N/A		N/A		2546811	18	<a< td=""><td>2.0</td><td>2546811</td></a<>	2.0	2546811
Total Extractable Nickel (Ni)	mg/kg	50	100	500	N/A		N/A		2546811	19	<a< td=""><td>1.0</td><td>2546811</td></a<>	1.0	2546811
Total Extractable Lead (Pb)	mg/kg	50	500	1000	8.2	<a< td=""><td>6.1</td><td><a< td=""><td>2552925</td><td><5.0</td><td></td><td>5.0</td><td>2546811</td></a<></td></a<>	6.1	<a< td=""><td>2552925</td><td><5.0</td><td></td><td>5.0</td><td>2546811</td></a<>	2552925	<5.0		5.0	2546811
Total Extractable Thallium (Tl) †	mg/kg	-	-	-	<2.0		<2.0		2552925	N/A		2.0	N/A
Total Extractable Zinc (Zn)	mg/kg	140	500	1500	N/A		N/A		N/A	44	<a< td=""><td>10</td><td>2546811</td></a<>	10	2546811

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

GENERAL COMMENTS

Samples temperature is above 10°C.: NF9604, NF9604, NF9605, NF9605, NF9606, NF9606, NF9607, NF9607, NF9608, NF9609, NF9609, NF9610, NF9611, NF9611, NF9611, NF9612, NF9613, NF9613, NF9614, NF9614

Revision: Additional analysis has been added per M7617 on 2024/08/06

A,B,C,CR: Soil Criteria following appendix 2 of the "Guide d'intervention-Protection des sols et réhabilitation des terrains contaminés. MELCC, May 2021." entitled "Grille des critères génériques pour les sols". The soil criteria refer to the St. Lawrence Lowlands Geological Province.

Groundwater criteria A and B follow the appendix 7 entitled "Grille des critères de qualité des eaux souterraines" of the document mentionned above. The criterion A refers to "Drinking Water" and the criterion B refers to "Seepage into Surface Water".

These criteria references are shown for visual aid only, and should not be interpreted otherwise.

- = This parameter is not part of the regulation.

PETROLEUM HYDROCARBONS F1BTEX (SOIL)

Un-rounded results are used in the total xylene (o,m,p) calculation. This total result is then rounded to two significant figures.

Please note that the above results have been corrected for the instrument blank.

Results relate only to the items tested.



Report Date: 2024/08/08

GROUPE C. LAGANIERE INC. Client Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

QUALITY ASSURANCE REPORT

QA/QC							
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units
2546235	XDU	Spiked Blank	1,4-Difluorobenzene	2024/07/19		97	%
			4-Bromofluorobenzene	2024/07/19		99	%
			D10-Ethylbenzene	2024/07/19		83	%
			D4-1,2-Dichloroethane	2024/07/19		107	%
			Benzene	2024/07/19		85	%
			Toluene	2024/07/19		67	%
			Ethylbenzene	2024/07/19		73	%
			p+m-Xylene	2024/07/19		77	%
			o-Xylene	2024/07/19		83	%
			Total_Xylenes	2024/07/19		80	%
			F1 (C6-C10)	2024/07/19		66	%
2546235	XDU	Method Blank	1,4-Difluorobenzene	2024/07/19		98	%
			4-Bromofluorobenzene	2024/07/19		75	%
			D10-Ethylbenzene	2024/07/19		77	%
			D4-1,2-Dichloroethane	2024/07/19		105	%
			Benzene	2024/07/19	<0.0050		mg/kg
			Toluene	2024/07/19	<0.050		mg/kg
			Ethylbenzene	2024/07/19	<0.010		mg/kg
			p+m-Xylene	2024/07/19	<0.040		mg/kg
			o-Xylene	2024/07/19	<0.020		mg/kg
			Total_Xylenes	2024/07/19	<0.040		mg/kg
			F1 (C6-C10)	2024/07/19	<10		mg/kg
			F1 (C6-C10) - BTEX	2024/07/19	<10		mg/kg
2546240	FEM	Spiked Blank	4-Bromofluorobenzene	2024/07/20	120	109	%
25 102 10		opined blank	D10-Ethylbenzene	2024/07/20		111	%
			D4-1,2-Dichloroethane	2024/07/20		113	%
			D8-Toluene	2024/07/20		99	%
2546240	FEM	Method Blank	4-Bromofluorobenzene	2024/07/20		99	%
25 102 10		Weemod Blank	D10-Ethylbenzene	2024/07/20		94	%
			D4-1,2-Dichloroethane	2024/07/20		117	%
			D8-Toluene	2024/07/20		102	%
			Hexane	2024/07/20	<0.50	102	mg/kg
2546605	JNI	Spiked Blank	O-Terphenyl	2024/07/22	10.50	94	%
2340003	3141	эрікса Біатк	F2 (C10-C16)	2024/07/22		107	%
			F3 (C16-C34)	2024/07/22		107	%
			F4 (C34-C50)	2024/07/22		107	%
2546605	JNI	Method Blank	O-Terphenyl	2024/07/22		99	%
2340003	2141	Wethod Blank	F2 (C10-C16)	2024/07/22	<10	99	mg/kg
			F3 (C16-C34)	2024/07/22	<50		mg/kg
			F4 (C34-C50)	2024/07/22	<50		mg/kg
2546713	IΤΛ	Snikad Plank	D10-Anthracene		\ 30	70	
2340/13	JTA	Spiked Blank	D10-Antifracene D12-Benzo(a)pyrene	2024/07/21 2024/07/21		78 81	% %
			D12-benzo(a)pyrene D14-Terphenyl	2024/07/21		81 74	
					74 77	% %	
			D8-Acenaphthylene	2024/07/21	7	77 79	% %
			D8-Naphthane	2024/07/21			% «
			Acenaphthylone	2024/07/21		73 74	%
			Acenaphthylene	2024/07/21		74 75	%
			Anthracene	2024/07/21		75 65	%
			Benzo(a)anthracene	2024/07/21		65 75	%
			Benzo(a)pyrene	2024/07/21		75	%



Bureau Veritas Job #: C437803 GROUPE C. LAGANIERE INC.
Report Date: 2024/08/08 Client Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

QUALITY ASSURANCE REPORT(CONT'D)

04/00			QUALITY ASSURANCE REPO				
QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units
			Benzo(b)fluoranthene	2024/07/21		74	%
			Benzo(j)fluoranthene	2024/07/21		77	%
			Benzo(k)fluoranthene	2024/07/21		75	%
			Benzo(c)phenanthrene	2024/07/21		66	%
			Benzo(ghi)perylene	2024/07/21		72	%
			Chrysene	2024/07/21		66	%
			Dibenzo(a,h)anthracene	2024/07/21		77	%
			Dibenzo(a,i)pyrene	2024/07/21		64	%
			Dibenzo(a,h)pyrene	2024/07/21		67	%
			Dibenzo(a,I)pyrene	2024/07/21		74	%
			7,12-Dimethylbenzanthracene	2024/07/21		67	%
			Fluoranthene	2024/07/21		74	%
			Fluorene	2024/07/21		69	%
			Indeno(1,2,3-cd)pyrene	2024/07/21		71	%
			3-Methylcholanthrene	2024/07/21		85	%
			Naphthalene	2024/07/21		79	%
			Phenanthrene	2024/07/21		73	%
			Pyrene	2024/07/21		74	%
			2-Methylnaphthalene	2024/07/21		71	%
			1-Methylnaphthalene	2024/07/21		72	%
			1,3-Dimethylnaphthalene	2024/07/21		67	%
			2,3,5-Trimethylnaphthalene	2024/07/21		69	%
2546713	JTA	Method Blank	D10-Anthracene	2024/07/21		77	%
			D12-Benzo(a)pyrene	2024/07/21		78	%
			D14-Terphenyl	2024/07/21		72	%
			D8-Acenaphthylene	2024/07/21		77	%
			D8-Naphthalene	2024/07/21		80	%
			Acenaphthene	2024/07/21	<0.10		mg/kg
			Acenaphthylene	2024/07/21	<0.10		mg/kg
			Anthracene	2024/07/21	<0.10		mg/kg
			Benzo(a)anthracene	2024/07/21	<0.10		mg/kg
			Benzo(a)pyrene	2024/07/21	<0.10		mg/kg
			Benzo(b)fluoranthene	2024/07/21	<0.10		mg/kg
			Benzo(j)fluoranthene	2024/07/21	<0.10		mg/kg
			Benzo(k)fluoranthene	2024/07/21	<0.10		mg/kg
			Benzo(c)phenanthrene	2024/07/21	<0.10		mg/kg
			Benzo(ghi)perylene	2024/07/21	<0.10		mg/kg
			Chrysene	2024/07/21	<0.10		mg/kg
			Dibenzo(a,h)anthracene	2024/07/21	<0.10		mg/kg
			Dibenzo(a,i)pyrene	2024/07/21	<0.10		mg/kg
			Dibenzo(a,h)pyrene	2024/07/21	<0.10		mg/kg
			Dibenzo(a,l)pyrene	2024/07/21	<0.10		mg/kg
			7,12-Dimethylbenzanthracene	2024/07/21	<0.10		mg/kg
			Fluoranthene	2024/07/21	<0.10		mg/kg
			Fluorene	2024/07/21	<0.10		mg/kg
			Indeno(1,2,3-cd)pyrene	2024/07/21	<0.10		mg/kg
			3-Methylcholanthrene	2024/07/21	<0.10		mg/kg
			Naphthalene	2024/07/21	<0.10		mg/kg
			Phenanthrene	2024/07/21	<0.10		mg/kg
				2024/07/21	<0.10		
			Pyrene	2024/07/21	~ 0.10		mg/kg



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC							
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units
			2-Methylnaphthalene	2024/07/21	< 0.10		mg/kg
			1-Methylnaphthalene	2024/07/21	< 0.10		mg/kg
			1,3-Dimethylnaphthalene	2024/07/21	< 0.10		mg/kg
			2,3,5-Trimethylnaphthalene	2024/07/21	< 0.10		mg/kg
2546811	JGK	QC Standard	Total Extractable Arsenic (As)	2024/07/24		101	%
			Total Extractable Cadmium (Cd)	2024/07/24		104	%
			Total Extractable Chromium (Cr)	2024/07/24		69	%
			Total Extractable Cobalt (Co)	2024/07/24		95	%
			Total Extractable Copper (Cu)	2024/07/24		111	%
			Total Extractable Nickel (Ni)	2024/07/24		107	%
			Total Extractable Lead (Pb)	2024/07/24		118	%
			Total Extractable Zinc (Zn)	2024/07/24		109	%
2546811	JGK	Spiked Blank	Total Extractable Arsenic (As)	2024/07/24		108	%
			Total Extractable Cadmium (Cd)	2024/07/24		107	%
			Total Extractable Chromium (Cr)	2024/07/24		103	%
			Total Extractable Cobalt (Co)	2024/07/24		104	%
			Total Extractable Copper (Cu)	2024/07/24		104	%
			Total Extractable Nickel (Ni)	2024/07/24		107	%
			Total Extractable Lead (Pb)	2024/07/24		106	%
			Total Extractable Zinc (Zn)	2024/07/24		105	%
2546811	JGK	Method Blank	Total Extractable Arsenic (As)	2024/07/24	<5.0		mg/kg
			Total Extractable Cadmium (Cd)	2024/07/24	<0.50		mg/kg
			Total Extractable Chromium (Cr)	2024/07/24	<2.0		mg/kg
			Total Extractable Cobalt (Co)	2024/07/24	<2.0		mg/kg
			Total Extractable Copper (Cu)	2024/07/24	<2.0		mg/kg
			Total Extractable Nickel (Ni)	2024/07/24	<1.0		mg/kg
			Total Extractable Lead (Pb)	2024/07/24	<5.0		mg/kg
			Total Extractable Zinc (Zn)	2024/07/24	<10		mg/kg
2552925	DMI	Spiked Blank	Total Extractable Lead (Pb)	2024/08/07		110	%
			Total Extractable Thallium (Tl)	2024/08/07		97	%
2552925	DMI	Method Blank	Total Extractable Lead (Pb)	2024/08/07	<5.0		mg/kg
			Total Extractable Thallium (TI)	2024/08/07	<2.0		mg/kg

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.



Site Location: 1660, MERIVALE RD, NEPEAN, OTTAWA

Your P.O. #: 01-14014 Sampler Initials: DS

VALIDATION SIGNATURE PAGE

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

Amelie Houle, B.Sc., Chemist, Montréal, Analyst II

Cansu Bolukbas

Membre OCO#2324-095 Cansu Bolukbas, B.Sc., Chemist, Montreal, Analyst II

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Jonathan Fauvel, B.Sc., Chemist, Montreal, Scientific Specialist

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Zili Jiang 2324-073

Zili Jiang, Chemist, Montreal, Analyst 1

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 Aglaia Yannakis, General Manager responsible for Quebec Environmental laboratory operations.



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l'attention: ntreprise:

Copie(cc): Courriel

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Possibilité concentration élevée Acheminez toute demande de délai rapide PRIS PAR: Delai rapide (frais supplementaires) 3 jours 1 jour Rapport en anglais votre chargé de projet Delai d'analyses J délai régulier N° de confirmation de délai rapide PLACER L'AUTOCOLLANT ICI Réservé au laboratoire -AA Même jour E ROCLIMENT DE CHARIEL DI RESPONSABILITES CONSTITUE UNE RECONNAISSANCE ET UNI PELANT LE LABORACORE BIBBOVE (L'BESSUS POUR EN CHTENIR UN EXEMPLABE. VICHINER - NE MYZ WNYTAZEK v NOMBRE DE CONTENANTS ENVOYÉS Oui Non 1660, Merivale Rd, Nepean, Ottawa, Ont F2-F4 FT-BTEX HARN1660P2 David Sauvé AS-Cd-Cr-Co-Cu-Ni-Pb-ZA 01-14014 C40044 Scellé légal présent Scellé légal intact Cu, Mn, Mo, Ni, Pb, Se, Na, Zn So, Mn, Mo, Mi, Pb, Zn 16 metaux - Ai, Sb, Ag, As, Ba, Cd, Co, Cr, 14 métaux - Ag, As, Ba, Cd, Co, Cr, Cu, Se, implacement du **dAH** " de soumissior " de bon de f' de projet: N' de site: C10-C20 X318 MAH COA 254 2 VENIR) postal: Groupe C. Laganière (1995) Inc. RETENIR À LA RÉCEPTION (ANALYSES À Code mbelisle@gr-laganiere.com FLIRATION AU LABO, REQUISE Oul Non Mathieu Bélisle 35 av Laganiere Sol (Sol) 514-452-5718 153-04 .ES ÉCHANTILLONS DOIVENT ÊTRE CONSERVÉS AU FRAIS (<10°C) DU MOMENT DE L'ECHANTILLONNAGE JUSQU'À LA LIVRAISON BUREAU VERTAS Sol (Sol) Sol (Sol) Matrice Prov: Heure (24hr) Z Réserve au laboratoire - Autre (précisez): Dir. 019 (minier) Scellé légal présent Scellé légal intact Réfrigérant présent Ŧ 60 60 60 60 60 60 60 60 60 60 Date de prélèvement 60 MM 07 07 07 07 07 07 07 07 07 07 07 RQEP - formulaire MELCC requis Copie(cc): 24 attention 24 24 24 24 \$ 24 24 24 24 24 24 Adresse: Courriel: Critères ou règlements applicables Ville: Tel.: 13 postal: H1BST1 CMM 2008-47 BH-07-6 (1205) 2 土 Rapport requis a l'adresse de facturation Groupe C. Laganière (1995) Inc. grl.payables@gr-laganiere.com CCME mbelisle@gr-laganiere.com Code Mathieu Bélisle 35 av Laganiere ů 5146400840 Identification de l'échantillon 90 BH-08-7 BH-04-5 8H-06-5 BH-01-6 BH-02-8 BH-03-6 DUP #2 BH-04-8 BH-05-3 BH-05-6 Oul Non Prov: Qualité de l'eau de surface RMD (mat. lixiviable) Montréal-Est Guide d'Intervention Réservé au laboratoire

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Facturation	Rapport requis a l'adresse de facturation	uc.					Rappor	ort					Projet							
Entreprise:	Groupe C. Laganière (1995) Inc.) Inc.	Entreprise:	ise:	500	Group	oe C. La	Groupe C. Laganière (1995) Inc.	995) Inc.		N° de saumission	nission:		C40044						
A l'attention:	Mathieu Bélisle		A l'attention	ion			Mathi	hieu Bélisle			N° de bon de commande:	# u	3	01-14014					Réservé au laboratoire - PLACER L'AUTOCOLLANT ICI	ratoire -
Adresse:	35 av Laganiere		Adresse:	25			35 av	v Laganiere	100		N' de projet:	ii.	HA	HARN1660P	2					
Ville: Mo	Montréal-Est Prov: QC Code	H1B5T1	1 Ville:	285			Prov:	5	Code		N* de site:									
Tél.:	5146400840		Tél.:		1		514	514-452-5718			Emplacement du site:		1660, Merivale Rd, Nepean, Ottawa, Ont	d, Nepea	n, Otta	va, Ont		N. d	N" de confirmation de délai rapide:	délai rapide:
Courriel:	grl.payables@gr-laganiere.com	com	Courriel:	4		mp	mbelisle@g	gr-laganiere.com	e.com		Emplacement du site, province:	ent du								
Copie(cc):	mbelisle@gr-laganiere.com	mo	Copie(cc):	; ;							Echantillonneur	menu	ŏ	David Sauvé			1			
	Critières o	Critères ou règlements applicables	applicable	Se					2	3 4	9	7 8 9	10 11	12 13 14	15 1	17 1	8 19 20	21 22	D Mark	Dėlai d'analyses
Guide	Guide d'Intervention	RQEP - formulaire MELCC requis Autre (précisez):	ilre MELCI	C requis	Autr	e (précis		153-04	V S									5		🗸 délai régulier
RMD	RMD (mat. lixivlable)	CMM 2008-47			RVMR	œ) 'pɔ '	Ü	VZ-				2	Délai rapid	Dėlai rapide (frais supplėmentaires)
Qualit	Qualité de l'eau de surface	CCME			Dir. C	Dir. 019 (minier)	iler)					eg 'sy	ız 'en'	Λi-Pb				0.20(2) 2.2	Acheminez tour	Acheminez toute demande de délai rapide à
LES ECHANTII	LES ÉCHANTILLONS DOIVENT ÉTRE CONSERVÉS AU FRAIS (<-10°C) DU MOMENT DE L'ECHANTILLONNAGE JUSQU'À LA BUREAU VERITAS	S (<10°C) DU MON BUREAU VERITAS	OMENT D	е гесни	ANTILLON	NAGE J	USQU'À I	LA LIVRAISON A	.OBAJ (,86, dq ,86, d8,						Office and the	Même jour	votre charge de projet jour
	Identification de l'échantillon		Da	te de pré	Date de prélèvement	_	Heure (24hr)	Matrice	JA NOTTA I AJ Á RII (09	taux - Ag 1, Mo, Ni 1A - Xusi	o, oM, r reanium nenui\ean	J-1J-b	1/9879	t	, page - 1	NER DE CO	Date Date	AA MM JJ
			4	AA	MM LI	Ŧ	MM			COV 6	BTEX C10-C2	HAP I4 mè Sn, Mr 16 mè	Mercu Bore, u		ET-8.	14-Z3	БхэН		redulse:	Commentaires
-	BH-01-6		2	24 07	7 09	Section 1		Sol (Sol)							×	×			Rap	Rapport en anglais
2	BH-02-8		2	24 0	00 0	_		Sol (Sol)							×	×				
3	BH-03-6		2	24 0	07 09	-		Sol (Sol)							×	×				
4	BH-04-5		2	24 07	7 09			Sol (Sol)				×		×	×	×				
5	DUP #2		2	24 07	60 2	_		Sol (Sol)				×		×	×	×				
9	BH-04-8		2	24 0	07 09	-		Sol (Sol)							×	×				
7	BH-05-3		2	24 0	07 09			Sol (Sol)				×		×	*	×				
80	BH-05-6		2	24 0	07 09			Sol (Sol)				×		×	×	×				
6	BH-06-5		2	24 0	07 09	_		Sol (Sol)							×	×			Possibilité	Possibilité concentration élevée
10	JN+V) 9-40-HB	1161	2	24 0	07 09			Sol (Sol)							×	×				
11	BH-08-7		2	24 0	02 09			Sol (Sol)				×		×	×	×				
12	1.2. Proposition of the control of t	E CANDON CE	NIV. CO.	a Managar	THE PERSONS	E COM	SOME		CENEGAME	PHIREALI	Spiras	SCHATTIBE DE CE	POCHIMENITOCI	MINE OF BEST	NCAR	THE STATE OF	ANE BECCININ	CCANCET	ONE ACCEPTATION	Y CONDITIONS CANDIDATES TO SIGNATURE IN CHANGE IN FOUNDAMENT BECOMMANDED THE BECTHING SECRETATION DE SOC CONDITIONS CONDITIONS
Réservé au	GUI PET	QUI PELVENT ETRE CONSULTES SURTED-//www.bona.com/Ir/halorate Réservé au laboratoire	NSUI TEES	SUR https	ps://www.bvna.com/h/labo Réservé au laboratoire	na com/	ir/Jaborat atoire		Non	rres/cdr-c	ndilions-gen	erates OU EN APP	Se environmentator/resources/cdi-conditions-generales. Ou EN APPELANT IT LARORATORI INDIQUE CLOESSIS FOUR EN OBTENIR UN EXAMPLARR Out Non	BORATORE INDIQUE CL'DI Reserve au laboratoire	CI-DESSUS Dife	OUR EN OR	TENIR UN DXEM	PLAIRE		PRIS PAR:
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Your P.O. #: 01-14014 Your Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

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

2024/07/17 2024/07/20 STL SOP-00177

2024/07/18 2024/07/20 STL SOP-00177

Attention: Mathieu Bélisle
GROUPE C. LAGANIERE INC.
35 avenue Laganiere
Montréal-Est, QC
CANADA H1B 5T1

Report Date: 2024/07/24

MA.400-HAP 1.1 R5 m

MA.400-HAP 1.1 R5 m

Report #: R2963178 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C437773
Received: 2024/07/12, 12:30
Sample Matrix: Ground Water

Samples Received: 6

Date Date **Quantity Extracted Analyses** Analyzed **Laboratory Method Analytical Method** VOC in water 2024/07/18 STL SOP-00145 5 N/A MA.400-COV 2.0 R4 m VOC in water 1 N/A 2024/07/22 STL SOP-00145 MA.400-COV 2.0 R4 m F1-BTEX (CCME) in water 5 N/A 2024/07/18 STL SOP-00131 CCME PHC-CWS m 1 2024/07/22 STL SOP-00131 F1-BTEX (CCME) in water N/A CCMF PHC-CWS m Petroleum Hydrocarbons (F2-F4)-water 6 2024/07/17 2024/07/18 STL-SOP-00170 CCME PHC-CWS m Dissolved Metals (Low DL) site filtered 3 2024/07/18 STL SOP-00062 MA.200-Mét. 1.2 R7 m

Remarks:

PAH in water (1)

PAH in water (1)

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, EPA, APHA or the Quebec Ministry of Environment.

3

1

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.

 $Note: RPDs \ calculated \ using \ raw \ data. \ The \ rounding \ of \ final \ results \ may \ result \ in \ the \ apparent \ difference.$

(1) This test was performed by Bureau Veritas - Québec, 2690 Avenue Dalton , Quebec, QC, G1P 3S4

Note: All parameters included in the present certificate are accredited by the Québec Ministry of the Environment, unless stated otherwise.



Your P.O. #: 01-14014 Your Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

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

Attention: Mathieu Bélisle

GROUPE C. LAGANIERE INC. 35 avenue Laganiere Montréal-Est, QC CANADA H1B 5T1

Report Date: 2024/07/24

Report #: R2963178 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C437773

Received: 2024/07/12, 12:30

Encryption Key

Hafsa Zaki Project Manager 1 24 Jul 2024 14:26:47

Please direct all questions regarding this Certificate of Analysis to:

Hafsa Zaki, Project Manager 1

Email: hafsa.zaki@bureauveritas.com

Phone# (438)221-2672

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 Aglaia Yannakis, General Manager responsible for Quebec Environmental laboratory operations.



Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

PETROLEUM HYDROCARBONS F1BTEX (GROUND WATER)

Bureau Veritas ID		NF9398	NF9399	NF9400	NF9401	NF9402		NF9403		
Sampling Date		2024/07/08	2024/07/11	2024/07/11	2024/07/11	2024/07/11		2024/07/11		
	Units	MW15-01	MW15-02	DUP-MW15-02	TH3	TH7	QC Batch	TH5	RDL	QC Batch
VOLATILES										
F1 (C6-C10) †	ug/L	<100	110	<100	330	<100	2545666	300	100	2546966
F1 (C6-C10) - BTEX †	ug/L	<100	100	<100	320	<100	2545666	260	100	2546966
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	95	93	93	93	93	2545666	92	N/A	2546966
4-Bromofluorobenzene	%	81	97	98	98	85	2545666	112	N/A	2546966
D10-Ethylbenzene	%	91	92	101	89	82	2545666	87	N/A	2546966
D4-1,2-Dichloroethane	%	98	98	96	94	95	2545666	99	N/A	2546966

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

† Parameter is not accreditable



Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

PAH BY GCMS (GROUND WATER)

Bureau Veritas ID				NF9398			NF9399		NF9400			
Sampling Date				2024/07/08			2024/07/11		2024/07/11			
	Units	Α	В	MW15-01	CR	QC Batch	MW15-02	CR	DUP-MW15-02	CR	RDL	QC Batch
PAH												
Acenaphthene	ug/L	-	100	<0.030		2545747	<0.030		<0.030		0.030	2545614
Anthracene	ug/L	-	-	<0.030		2545747	<0.030		<0.030		0.030	2545614
Benzo(a)anthracene	ug/L	-	-	<0.030		2545747	<0.030		<0.030		0.030	2545614
Benzo(b)fluoranthene †	ug/L	-	-	<0.060		2545747	<0.060		<0.060		0.060	2545614
Benzo(j)fluoranthene †	ug/L	-	-	<0.060		2545747	<0.060		<0.060		0.060	2545614
Benzo(k)fluoranthene†	ug/L	-	-	<0.060		2545747	<0.060		<0.060		0.060	2545614
Benzo(a)pyrene	ug/L	0.01	-	<0.0080		2545747	<0.0080		<0.0080		0.0080	2545614
Chrysene	ug/L	-	-	<0.030		2545747	<0.030		<0.030		0.030	2545614
Dibenzo(a,h)anthracene	ug/L	-	-	<0.030		2545747	<0.030		<0.030		0.030	2545614
Fluoranthene	ug/L	4	14	<0.030		2545747	<0.030		<0.030		0.030	2545614
Fluorene	ug/L	-	110	<0.030		2545747	<0.030		<0.030		0.030	2545614
Indeno(1,2,3-cd)pyrene	ug/L	1	-	<0.030		2545747	<0.030		<0.030		0.030	2545614
Naphthalene	ug/L	100	100	<0.030		2545747	0.033	<a< td=""><td><0.030</td><td></td><td>0.030</td><td>2545614</td></a<>	<0.030		0.030	2545614
Phenanthrene	ug/L	-	4.7	<0.030		2545747	<0.030		<0.030		0.030	2545614
Pyrene	ug/L	-	-	<0.030		2545747	<0.030		<0.030		0.030	2545614
Total PAH (SSW) †	ug/L	-	1.8	<0.060		2545747	<0.060		<0.060		0.060	2545614
Surrogate Recovery (%)												
D10-Anthracene	%	-	-	85		2545747	99		90		N/A	2545614
D12-Benzo(a)pyrene	%	-	-	94		2545747	115		114		N/A	2545614
D14-Terphenyl	%	-	1	87		2545747	101		90		N/A	2545614
D8-Acenaphthylene	%	-	-	92		2545747	106		101		N/A	2545614
D8-Naphthalene	%	-	-	83		2545747	96		90		N/A	2545614

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

† Parameter is not accreditable



Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

PAH BY GCMS (GROUND WATER)

Bureau Veritas ID				NF9402			
Sampling Date				2024/07/11			
	Units	Α	В	TH7	CR	RDL	QC Batch
PAH							
Acenaphthene	ug/L	-	100	<0.030		0.030	2545614
Anthracene	ug/L	-	-	<0.030		0.030	2545614
Benzo(a)anthracene	ug/L	1	-	<0.030		0.030	2545614
Benzo(b)fluoranthene †	ug/L	-	-	<0.060		0.060	2545614
Benzo(j)fluoranthene †	ug/L	-	-	<0.060		0.060	2545614
Benzo(k)fluoranthene †	ug/L	1	-	<0.060		0.060	2545614
Benzo(a)pyrene	ug/L	0.01	-	<0.0080		0.0080	2545614
Chrysene	ug/L	-	-	<0.030		0.030	2545614
Dibenzo(a,h)anthracene	ug/L	-	-	<0.030		0.030	2545614
Fluoranthene	ug/L	4	14	<0.030		0.030	2545614
Fluorene	ug/L	-	110	<0.030		0.030	2545614
Indeno(1,2,3-cd)pyrene	ug/L	1	-	<0.030		0.030	2545614
Naphthalene	ug/L	100	100	<0.030		0.030	2545614
Phenanthrene	ug/L	-	4.7	<0.030		0.030	2545614
Pyrene	ug/L	1	-	<0.030		0.030	2545614
Total PAH (SSW) †	ug/L	-	1.8	<0.060		0.060	2545614
Surrogate Recovery (%)							
D10-Anthracene	%	-	-	97		N/A	2545614
D12-Benzo(a)pyrene	%	-	-	113		N/A	2545614
D14-Terphenyl	%	-	-	99		N/A	2545614
D8-Acenaphthylene	%	-	-	104		N/A	2545614
D8-Naphthalene	%	-	-	93		N/A	2545614
DDI Danastalala Datastia							

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

† Parameter is not accreditable



Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

HYDROCARBONS BY GCFID (GROUND WATER)

Bureau Veritas ID		NF9398	NF9399	NF9400	NF9401	NF9402	NF9403		
Sampling Date		2024/07/08	2024/07/11	2024/07/11	2024/07/11	2024/07/11	2024/07/11		
	Units	MW15-01	MW15-02	DUP-MW15-02	TH3	TH7	TH5	RDL	QC Batch
PETROLEUM HYDROCARBOI	NS								
F2 (C10-C16) †	ug/L	<100	<100	<100	<100	<100	590	100	2545526
F3 (C16-C34) †	ug/L	<200	<200	<200	<200	<200	210	200	2545526
F4 (C34-C50) †	ug/L	<200	<200	<200	<200	<200	<200	200	2545526
Reached Baseline at C50 †	ug/L	Yes	Yes	Yes	Yes	Yes	Yes	N/A	2545526
Surrogate Recovery (%)									
O-Terphenyl	%	86	80	77	80	85	83	N/A	2545526

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

† Parameter is not accreditable

N/A = Not Applicable

Page 6 of 13 2024/07/24 14:10



Bureau Veritas Job #: C437773 GROUPE C. LAGANIERE INC.
Report Date: 2024/07/24 Client Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

VOC BY GC/MS (GROUND WATER)

Bureau Veritas ID		NF9398	NF9399	NF9400	NF9401	NF9402		NF9403		
Sampling Date		2024/07/08	2024/07/11	2024/07/11	2024/07/11	2024/07/11		2024/07/11		
	Units	MW15-01	MW15-02	DUP-MW15-02	TH3	TH7	QC Batch	TH5	RDL	QC Batch
VOLATILES										
Hexane †	ug/L	<0.50	0.56	<0.50	<0.50	<0.50	2545667	<0.50	0.50	2546967
Surrogate Recovery (%)										
4-Bromofluorobenzene	%	77	78	78	78	76	2545667	94	N/A	2546967
D4-1,2-Dichloroethane	%	112	109	108	107	111	2545667	118	N/A	2546967
D8-Toluene	%	94	95	95	97	94	2545667	98	N/A	2546967

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

† Parameter is not accreditable



Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

DISSOLVED METALS (GROUND WATER)

Bureau Veritas ID				NF9399		NF9400		NF9402			
Sampling Date				2024/07/11		2024/07/11		2024/07/11			
	Units	Α	В	MW15-02	CR	DUP-MW15-02	CR	TH7	CR	RDL	QC Batch
METALS ICP-MS											
Dissolved Arsenic (As)	ug/L	0.3	340	<0.30		<0.30		<0.30		0.30	2544204
Dissolved Cadmium (Cd)	ug/L	5	1.1	<0.20		<0.20		<0.20		0.20	2544204
Dissolved Chromium (Cr)	ug/L	50	-	<0.50		0.52	<a< td=""><td><0.50</td><td></td><td>0.50</td><td>2544204</td></a<>	<0.50		0.50	2544204
Dissolved Cobalt (Co)	ug/L	-	370	0.54	<b< td=""><td>0.58</td><td><b< td=""><td><0.50</td><td></td><td>0.50</td><td>2544204</td></b<></td></b<>	0.58	<b< td=""><td><0.50</td><td></td><td>0.50</td><td>2544204</td></b<>	<0.50		0.50	2544204
Dissolved Copper (Cu)	ug/L	1000	7.3	2.5	<a< td=""><td>2.5</td><td><a< td=""><td>1.2</td><td><a< td=""><td>0.50</td><td>2544204</td></a<></td></a<></td></a<>	2.5	<a< td=""><td>1.2</td><td><a< td=""><td>0.50</td><td>2544204</td></a<></td></a<>	1.2	<a< td=""><td>0.50</td><td>2544204</td></a<>	0.50	2544204
Dissolved Nickel (Ni)	ug/L	70	260	6.0	<a< td=""><td>6.7</td><td><a< td=""><td>5.3</td><td><a< td=""><td>1.0</td><td>2544204</td></a<></td></a<></td></a<>	6.7	<a< td=""><td>5.3</td><td><a< td=""><td>1.0</td><td>2544204</td></a<></td></a<>	5.3	<a< td=""><td>1.0</td><td>2544204</td></a<>	1.0	2544204
Dissolved Lead (Pb)	ug/L	5	34	0.93	<a< td=""><td>0.85</td><td><a< td=""><td>0.15</td><td><a< td=""><td>0.10</td><td>2544204</td></a<></td></a<></td></a<>	0.85	<a< td=""><td>0.15</td><td><a< td=""><td>0.10</td><td>2544204</td></a<></td></a<>	0.15	<a< td=""><td>0.10</td><td>2544204</td></a<>	0.10	2544204
Dissolved Zinc (Zn)	ug/L	5000	67	17	<a< td=""><td>57</td><td><a< td=""><td><5.0</td><td></td><td>5.0</td><td>2544204</td></a<></td></a<>	57	<a< td=""><td><5.0</td><td></td><td>5.0</td><td>2544204</td></a<>	<5.0		5.0	2544204
RDL = Reportable Detection											

QC Batch = Quality Control Batch



Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

GENERAL COMMENTS

Samples temperature is above 10°C.: NF9398, NF9399, NF9399, NF9399, NF9400, NF9400, NF9400, NF9401, NF9401, NF9402, NF9402, NF9403, NF9403

Revision: Additional analysis has been added per M7371 on 2024/07/16

A,B,CR: Soil Criteria following appendix 2 of the "Guide d'intervention-Protection des sols et réhabilitation des terrains contaminés. MELCC, May 2021." entitled "Grille des critères génériques pour les sols". The soil criteria refer to the St. Lawrence Lowlands Geological Province.

Groundwater criteria A and B follow the appendix 7 entitled "Grille des critères de qualité des eaux souterraines" of the document mentionned above. The criterion A refers to "Drinking Water" and the criterion B refers to "Seepage into Surface Water".

These criteria references are shown for visual aid only, and should not be interpreted otherwise.

- = This parameter is not part of the regulation.

PETROLEUM HYDROCARBONS F1BTEX (GROUND WATER)

Please note that the above results have been corrected for the instrument blank.

PAH BY GCMS (GROUND WATER)

Result for Total PAH (SSW) represents the summation of the following 7 compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(k) fluoranthene, benzo(a,pyrene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-c,d)pyrene. Un-rounded results are used in the total "PAH"(SSW) calculation. This total result is then rounded to two significant figures.

Results relate only to the items tested.



Report Date: 2024/07/24

GROUPE C. LAGANIERE INC. Client Project #: HARN1660P2

Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

QUALITY ASSURANCE REPORT

QA/QC							
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units
2544204	DPA	Spiked Blank	Dissolved Arsenic (As)	2024/07/18		93	%
		·	Dissolved Cadmium (Cd)	2024/07/18		99	%
			Dissolved Chromium (Cr)	2024/07/18		97	%
			Dissolved Cobalt (Co)	2024/07/18		98	%
			Dissolved Copper (Cu)	2024/07/18		97	%
			Dissolved Nickel (Ni)	2024/07/18		96	%
			Dissolved Lead (Pb)	2024/07/18		104	%
			Dissolved Zinc (Zn)	2024/07/18		94	%
2544204	DPA	Method Blank	Dissolved Arsenic (As)	2024/07/18	<0.30	3,	ug/L
2311201	DI A	Weemod Blank	Dissolved Cadmium (Cd)	2024/07/18	<0.20		ug/L
			Dissolved Chromium (Cr)	2024/07/18	<0.50		ug/L
			Dissolved Cobalt (Co)	2024/07/18	<0.50		ug/L
			Dissolved Copper (Cu)	2024/07/18	<0.50		ug/L
			Dissolved Rickel (Ni)	2024/07/18	<1.0		ug/L
			Dissolved Hicker (NI) Dissolved Lead (Pb)	2024/07/18	<0.10		ug/L
			Dissolved Zinc (Zn)	2024/07/18	<5.0		ug/L ug/L
2545526	NM2	Spiked Blank	O-Terphenyl	2024/07/18	\3.0	90	ug/L %
2343320	INIVIZ	эрікей бійік	F2 (C10-C16)	2024/07/18		108	%
			F3 (C16-C34)	2024/07/18		108	% %
				2024/07/18		108	% %
2545526	NINAO	Method Blank	F4 (C34-C50)			87	% %
2343320	NM2	Method Blank	O-Terphenyl	2024/07/18 2024/07/18	-100	07	
			F2 (C10-C16)	, ,	<100		ug/L
			F3 (C16-C34)	2024/07/18	<200		ug/L
2545644	404	Cuille of Disort	F4 (C34-C50)	2024/07/18	<200	00	ug/L
2545614	AOA	Spiked Blank	D10-Anthracene	2024/07/20		88	%
			D12-Benzo(a)pyrene	2024/07/20		108	%
			D14-Terphenyl	2024/07/20		88	%
			D8-Acenaphthylene	2024/07/20		95	%
			D8-Naphthalene	2024/07/20		95	%
			Acenaphthene	2024/07/20		100	%
			Anthracene	2024/07/20		100	%
			Benzo(a)anthracene	2024/07/20		99	%
			Benzo(b)fluoranthene	2024/07/20		111	%
			Benzo(j)fluoranthene	2024/07/20		108	%
			Benzo(k)fluoranthene	2024/07/20		104	%
			Benzo(a) pyrene	2024/07/20		107	%
			Chrysene	2024/07/20		102	%
			Dibenzo(a,h)anthracene	2024/07/20		113	%
			Fluoranthene	2024/07/20		101	%
			Fluorene	2024/07/20		98	%
			Indeno(1,2,3-cd)pyrene	2024/07/20		106	%
			Naphthalene	2024/07/20		99	%
			Phenanthrene	2024/07/20		96	%
			Pyrene	2024/07/20		96	%
2545614	AOA	Method Blank	D10-Anthracene	2024/07/20		96	%
			D12-Benzo(a)pyrene	2024/07/20		105	%
			D14-Terphenyl	2024/07/20		97	%
			D8-Acenaphthylene	2024/07/20		102	%
			D8-Naphthalene	2024/07/20		94	%
			Acenaphthene	2024/07/20	< 0.030		ug/L



Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units
		• //	Anthracene	2024/07/20	<0.030	,	ug/L
			Benzo(a)anthracene	2024/07/20	< 0.030		ug/L
			Benzo(b)fluoranthene	2024/07/20	<0.060		ug/L
			Benzo(j)fluoranthene	2024/07/20	<0.060		ug/L
			Benzo(k)fluoranthene	2024/07/20	<0.060		ug/L
			Benzo(a)pyrene	2024/07/20	<0.0080		ug/L
			Chrysene	2024/07/20	< 0.030		ug/L
			Dibenzo(a,h)anthracene	2024/07/20	<0.030		ug/L
			Fluoranthene	2024/07/20	< 0.030		ug/L
			Fluorene	2024/07/20	< 0.030		ug/L
			Indeno(1,2,3-cd)pyrene	2024/07/20	<0.030		ug/L
			Naphthalene	2024/07/20	<0.030		ug/L
			Phenanthrene	2024/07/20	<0.030		ug/L
			Pyrene	2024/07/20	<0.030		ug/L
			Total PAH (SSW)	2024/07/20	<0.060		ug/L
2545666	XDU	Spiked Blank	1,4-Difluorobenzene	2024/07/18		96	%
			4-Bromofluorobenzene	2024/07/18		102	%
			D10-Ethylbenzene	2024/07/18		96	%
			D4-1,2-Dichloroethane	2024/07/18		102	%
			F1 (C6-C10)	2024/07/18		89	%
2545666	XDU	Method Blank	1.4-Difluorobenzene	2024/07/18		95	%
2545000	ADO	Wicthou Blank	4-Bromofluorobenzene	2024/07/18		82	%
			D10-Ethylbenzene	2024/07/18		93	%
			D4-1,2-Dichloroethane	2024/07/18		96	%
			F1 (C6-C10)	2024/07/18	<100	30	ug/L
			F1 (C6-C10) - BTEX	2024/07/18	<100		ug/L
2545667	EDM	Spiked Blank	4-Bromofluorobenzene	2024/07/19	\100	94	ug/L %
2343007	LDIVI	Spiked blank	D4-1,2-Dichloroethane	2024/07/19		119	%
			D8-Toluene	2024/07/19		94	%
2545667	EDM	Method Blank	4-Bromofluorobenzene	2024/07/19		94 77	% %
2343007	EDIVI	Method Blank	D4-1,2-Dichloroethane	2024/07/18		111	% %
			•			95	% %
			D8-Toluene Hexane	2024/07/18 2024/07/18	<0.50	95	
2545747	404	Cuilead Dlamb	D10-Anthracene	· ·	<0.50	01	ug/L
2545747	AOA	Spiked Blank		2024/07/20		81	%
			D12-Benzo(a)pyrene	2024/07/20		103	%
			D14-Terphenyl	2024/07/20		87	%
			D8-Acenaphthylene	2024/07/20		91	%
			D8-Naphthalene	2024/07/20		84	%
			Acenaphthene	2024/07/20		91	%
			Anthracene	2024/07/20		95	%
			Benzo(a)anthracene	2024/07/20		92	%
			Benzo(b)fluoranthene	2024/07/20		102	%
			Benzo(j)fluoranthene	2024/07/20		113	%
			Benzo(k)fluoranthene	2024/07/20		116	%
			Benzo(a)pyrene	2024/07/20		108	%
			Chrysene	2024/07/20		93	%
			Dibenzo(a,h)anthracene	2024/07/20		107	%
			Fluoranthene	2024/07/20		96	%
			Fluorene	2024/07/20		86	%
			Indeno(1,2,3-cd)pyrene	2024/07/20		103	%



Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units
		Α / -	Naphthalene	2024/07/20		87	%
			Phenanthrene	2024/07/20		87	%
			Pyrene	2024/07/20		94	%
2545747	AOA	Method Blank	D10-Anthracene	2024/07/20		84	%
25 .57 .7	7.07.	Weenou Blank	D12-Benzo(a)pyrene	2024/07/20		89	%
			D14-Terphenyl	2024/07/20		84	%
			D8-Acenaphthylene	2024/07/20		90	%
			D8-Naphthalene	2024/07/20		82	%
			Acenaphthene	2024/07/20	<0.030	02	ug/L
			Anthracene	2024/07/20	<0.030		ug/L
			Benzo(a)anthracene	2024/07/20	<0.030		ug/L ug/L
			Benzo(b)fluoranthene	2024/07/20	<0.060		ug/L ug/L
			Benzo(j)fluoranthene	2024/07/20	<0.060		ug/L ug/L
			<i>3.</i>	• •	<0.060		_
			Benzo(k)fluoranthene	2024/07/20			ug/L
			Benzo(a)pyrene	2024/07/20	<0.0080		ug/L
			Chrysene	2024/07/20	<0.030		ug/L
			Dibenzo(a,h)anthracene	2024/07/20	<0.030		ug/L
			Fluoranthene	2024/07/20	<0.030		ug/L
			Fluorene	2024/07/20	<0.030		ug/L
			Indeno(1,2,3-cd)pyrene	2024/07/20	<0.030		ug/L
			Naphthalene	2024/07/20	<0.030		ug/L
			Phenanthrene	2024/07/20	<0.030		ug/L
			Pyrene	2024/07/20	<0.030		ug/L
			Total PAH (SSW)	2024/07/20	<0.060		ug/L
2546966	EDM	Spiked Blank	1,4-Difluorobenzene	2024/07/22		94	%
			4-Bromofluorobenzene	2024/07/22		102	%
			D10-Ethylbenzene	2024/07/22		89	%
			D4-1,2-Dichloroethane	2024/07/22		102	%
			F1 (C6-C10)	2024/07/22		80	%
2546966	EDM	Method Blank	1,4-Difluorobenzene	2024/07/22		97	%
			4-Bromofluorobenzene	2024/07/22		84	%
			D10-Ethylbenzene	2024/07/22		92	%
			D4-1,2-Dichloroethane	2024/07/22		101	%
			F1 (C6-C10)	2024/07/22	<100		ug/L
			F1 (C6-C10) - BTEX	2024/07/22	<100		ug/L
2546967	DA2	Spiked Blank	4-Bromofluorobenzene	2024/07/22		99	%
			D4-1,2-Dichloroethane	2024/07/22		115	%
			D8-Toluene	2024/07/22		97	%
2546967	DA2	Method Blank	4-Bromofluorobenzene	2024/07/22		94	%
			D4-1,2-Dichloroethane	2024/07/22		119	%
			D8-Toluene	2024/07/22		98	%
			Hexane	2024/07/22	<0.50		ug/L

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.

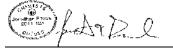


Site Location: 1660, MERIVALE RD, NEPEAN OTTAWA, ONT

Your P.O. #: 01-14014 Sampler Initials: DS

VALIDATION SIGNATURE PAGE

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



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CHAÎNE DE RESPONSABILITÉ

ENV COC - 00017v5

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Page

Acheminez toute demande de délai rapide Delai rapide (frais supplementaires 3 jours 1 Jour NOVA-2024-07-1860 votre chargé de projet Délai d'analyses Commentaires délai régulier N° de confirmation de délai rapide: Réservé au laboratoire -PLACER L'AUTOCOLLANT ICI AA Courrier (précisez): Même Jour Personnel BV 10 11 12 13 14 15 16 17 18 19 20 21 22 VICHIAER - NE DAS ANALYSER MM NOMBRE DE CONTENANTS ENVOYES M 7 H Нехэпе 1660, Merivale Rd, Nepean, Ottawa, Ont F2-F4 re de cuidocumient de chaine de responsabilites d En appliant le laboratoire indique cudessus po F1-8TEX Reservé au laboratoire HARN1660P2 David Sauvé 8 As-Cd-Cr-Co-Cu-Ni-Pb 01-14014 C40044 Scellé légal présent Scellé légal intact Réfrigérant présent Projet sauezny/saujxoji AA 1007 Mercure on, Mn, Mo, Mi, Pb, Zn Le metaux - Al, Sb, Ag, As, Ba, Cd, Co, Cr, mplacement du " de soumission AAH 8 ite, province: f' de projet: V* de bon de Reçu par: (signature/majuscules) N' de site: 052-012 X318 WVH Baral 50A 624 o VENIR) postal: Groupe C. Laganière (1995) Inc. Code RETENIR A LA RÉCEPTION (ANALYSES À mbelisle@gr-laganiere.com FILTRATION AU LABO. REQUISE Oul (ES) souternaine (ES) Eau souterraine (ES) Eau souterraine (ES) Mathieu Bélisle 35 av Laganiere 153-04 514-452-5718 LES ECHANTILLOMS DOIVENT ÈTRE CONSERVÈS AU FRAIS (< 10°C) DU MOMENT DE L'ÉCHANTILLONNAGE JUSQU'À LA LIVRAISON BUREAU VERTAS Matrice Prov: Heure (24hr) M Scellé légal présent Scellé légal Intact Réfrigérant présent Heure II HH MM Réserve au laboratoire - Autre (précisez): Dir. 019 (minier) Ŧ Date de prélèvement = MM 07 07 07 07 07 RQEP - formulaire MELCC requis Copie(cc): N attention 24 24 24 24 A 24 Adresse: Courriel: Critères ou réglements applicables Ville: Tél.: 2 H1B5T1 CMM 2008-47 A 5 Rapport requis a l'adresse de facturation Groupe C. Laganière (1995) Inc. grl.payables@gr-laganiere.com CCME mbelisle@gr-laganiere.com Code Mathieu Bélisle 35 av Laganiere 5146400840 identification de l'échantillon **DUP-MW15-02** oc MW15-02 MW15-01 Non Non Déssaisi par: (signature/majuscules) 표 TH7 Prov: Qualité de l'eau de surface RMD (mat. lixiviable) Guide d'intervention Montréal-Est Réservé au laboratoire icellé légal présent llé légal intact l'attention: Copie(cc): Adresse: Courriet 9 6 2 12 12 ~ m vř M. 00

1585

APPENDIX 7 Other Documents





PLAN TOPOGRAPHIQUE





APPENDIX 8 Contingent and Limiting Conditions



This intervention report is subject to, but not limited to, the following conditions:

- + The report reflects the condition of the site as observed during our site visits. The information contained herein is provided to the best of our knowledge and based on the data available to *Groupe C. Laganière* (1995) inc.
- + This report may not be used in conjunction with any other environmental site assessment or verification without the written consent of *Groupe C. Laganière* (1995) *Inc.* This document should be considered as a whole; no part of it may be used separately.
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- This report is based on the accuracy of the analytical results provided by the laboratory accredited by the MECP.
- + This report and its conclusions do not constitute legal advice.
- This report is environmental in nature and should not be used for designing foundations, structures, developments, or similar purposes.
- + The environmental interpretation of the analytical results presented in this study and the conclusions drawn are based on data collected during the work conducted as part of this environmental assessment. These are based on environmental standards, laws, and regulations in force at the time of the study and are applicable only to the site studied.
- Environmental contamination is often very specific and heterogeneous. Therefore, the conclusions of this report apply only to the locations surveyed and the parameters analyzed. General conclusions about the site as a whole are provided for informational purposes only and do not guarantee the absence or presence of contamination at locations other than those explored.
- + The contamination levels described in this study are valid only for the period during which sampling was conducted. These levels may vary due to natural phenomena or subsequent human activities on the site or adjacent sites.

