Phase II Environmental Site Assessment

13 Mountain Street, and 19, 21 and 23 Elm Street

Grimsby, Ontario

Prepared For:

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Executive Summary

DS Consultants Ltd. (DS) was retained by Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc. (the "Client") to conduct a Phase II Environmental Site Assessment (ESA) of the properties located at 13 Mountain Street, and 19, 21 and 23 Elm Street, Grimsby, Ontario, herein referred to as the "Phase II Property" or "Site". It is DS's understanding that the Client currently owns 13 Mountain Street and 19 Elm Street, and is intending on acquiring 21 and 23 Elm Street. Based on this understanding, the Phase II ESA is intended to be used for both pre-purchase due diligence on 21 and 23 Elm Street, as well as in in support of future filing of a Record of Site Condition as part of the proposed redevelopment of the Phase II Property for residential purposes. It is further understood that the proposed development will consist of a 7 – 10-storey building, with up to 3 levels of underground parking.

The Phase II Property is 0.48 hectares (1.19 acres) parcel of land situated within a mixed residential and commercial neighbourhood in the Town of Grimsby, Ontario. The Phase II Property is located at the northeast corner of Elm Street and Mountain Street.

The Phase II Property was developed prior to 1884 for inferred residential and community property use. The Phase II Property is currently being used for commercial and residential purposes and is occupied by an H&R Block, a skin care clinic, office space, residential retail units, Simply Moto motorcycle retail store, a denture and anti-snoring clinic, and a residential house.

The Phase II ESA was conducted in general accordance with the CSA Standards Association protocols outlined in the document *"Phase II Environmental Site Assessment, CSA Standard Z769-00 (R2013)"* dated 2000, and reaffirmed in 2013 as well as in general accordance with the requirements, methodology and practices for a Phase Two ESA as described in Ontario Regulation 153/04 (as amended). The objective of this Phase II ESA is to confirm whether contaminants are present, and at what concentration are they present on the Phase II Property, as related to the Areas of Potential Environmental Concern (APEC) identified in the Phase One ESA.

The Phase One ESA completed in December 2024 indicated that the Phase II Property was first developed for inferred residential and community purposes prior to 1884. A total of 33 PCAs were identified within the Phase One Study Area of which 16 are considered to be contributing to 13 APECs on, in or under the Phase II Property. A summary of the APECs, associated PCAs, and contaminants of potential concern (COPC) identified is presented in the table below:

Table E-1: Summary of APECs

APEC	Location of APEC	PCA	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC-1	Entire Site	#30: Importation of Fill Material of Unknown Quality	PCA-24 On-Site	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-2	Western portion of the Site	#N/S: Historical Soil Quality	PCA-25 On-Site	Metals, As	Soil
APEC-3	Southwestern portion of the Site	#N/S: Coal use and/or storage	PCA-26 On-Site	PAHs	Soil and groundwater
APEC-4	Northwestern portion of the Site	#N/S: Coal use and/or storage	PCA-27 On-Site	PAHs	Soil and groundwater
APEC-5	Southern portion of the Site	#N/S: Coal use and/or storage	PCA-28 On-Site	PAHs	Soil and groundwater
APEC-6	Southeastern portion of the Site	#N/S: Coal use and/or storage	PCA-29 On-Site	PAHs	Soil and groundwater
APEC-7	Southwestern portion of the Site	#28: Gasoline and Associated Products Storage in Fixed Tanks	PCA-30 On-Site	PHCs, BTEX, PAHs	Soil and groundwater
APEC-8	Northwestern portion of the Site	#28: Gasoline and Associated Products Storage in Fixed Tanks	PCA-31 On-Site	PHCs, BTEX, PAHs	Soil and groundwater
APEC-9	Southern portion of the Site	#28: Gasoline and Associated Products Storage in Fixed Tanks	PCA-32 On-Site	PHCs, BTEX, PAHs	Soil and groundwater
APEC-10	Southeastern portion of the Site	#28: Gasoline and Associated Products Storage in Fixed Tanks	PCA-33 On-Site	PHCs, BTEX, PAHs	Soil and groundwater
APEC-11	Entire property excluding the building footprints	#N/S: Application of de-icing agents	PCA-34 On-Site	EC, SAR	Soil
				Na, Cl-	Groundwater
APEC-12	Northern portion of the Site	#N/S: Mixed Manufacturing	PCA-1 Off-Site	Metals, As, Sb, Se, CN-, Cr (VI), Hg, PAHs, BTEX	Groundwater
APEC-13	Eastern portion of the Site	#N/S: Coal Use and/or Storage	PCA-2 Off-Site	PAHs	Groundwater
		#N/S: Mixed Manufacturing	PCA-7 Off-Site	Metals, As, Sb, Se, CN-, Cr (VI), Hg, PAHs, BTEX	Groundwater
		#59: Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products	PCA-8 Off-Site	VOCs, PAHs	Groundwater

APEC	Location of APEC	PCA	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
		#28: Gasoline and Associated Products Storage in Fixed Tanks	PCA-9 Off-Site	PHCs, BTEX, PAHs	Groundwater

Based on the findings of the Phase One ESA it was concluded that a Phase II ESA is warranted in order to assess the soil and groundwater conditions on the Phase II Property.

Terraprobe conducted a Phase Two ESA dated May 2021 concurrently with a geotechnical and hydrological investigation. The field work for this investigation was carried out from March 23rd to March 31st, 2021, during which time eight (8) boreholes (BH1 to BH8) were drilled to depths of about 12.8 to 18.4 mbgs. Monitoring wells were installed in six (6) of the boreholes (BH1 to BH6) extending to depths of 6.1 to 9.8 mbgs. These boreholes and monitoring wells are associated with 13 Mountain Street and 19 Elm Street, occupying the western and central portions of the Site. The groundwater flow direction was determined to be south to southwesterly, likely due to the monitoring wells not reaching stabilization. Groundwater flow is anticipated to flow north northwest towards Forty Mile Creek and Lake Ontario.

During DS' 2024 investigation, four (4) boreholes (MW24-1, BH24-2 to BH24-4) were advanced and one (1) borehole was instrumented with a monitoring well (MW24-1). The drilling was completed on November 22, 2024, on the eastern portion of the Site at the municipal addresses of 21 and 23 Elm Street. The monitoring well was screened from 4.57 to 7.62 mbgs and the boreholes were drilled to a maximum depth of 7.62 mbgs. Monitoring well MW24-1 remained dry at the time of the assessment. This well is situated in very stiff to hard clayey silt soil and will require time for water to flow into the well.

The following is a summary of the Phase II ESA findings and recommendations:

- The soil conditions consist of an upper layer of earth fill, underlain by clayey silt till and bedrock of the Queenston Formation.
- Soil samples were submitted for analysis of metals and inorganics, PHCs, VOCs and PAHs. The results of the chemical analyses identified exceedances of the applicable SCS for metals, hydride-forming metals and mercury within the fill stratum at depths ranging between 0-2.9 mbgs. EC and SAR impacts were identified in soil; however these were considered to be exempt per Section 49(1).1 of O.Reg. 153/04 (as amended). The soil samples tested from the native clayey silt stratum were reported to satisfy the Table 2 SCS.

- Groundwater samples were retrieved from the monitoring wells installed and submitted for analysis of metals and inorganics, PHCs, VOCs and PAHs. The groundwater samples were reported to satisfy the Table 2 SCS with the exception of sodium and chloride, which were also considered exempt per Section 49(1).1 of O.Reg. 153/04 (as amended).
- It is noted that there are exceedances for metals, hydride-forming metals and mercury within the fill material throughout the Site, ranging in depth from 0 to 2.9 mbgs.
- It is anticipated based on the future building design that the fill material will be excavated and removed from the property to accommodate the underground parking structure. Post excavation verification soil sampling will be required upon removal of the impacted fill. Alternately, if there are areas in which the fill material will not be removed, it can be managed in place through the completion of a Risk Assessment and implementation of Risk Management Measures.
- All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required

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1.0 Introduction

DS Consultants Ltd. (DS) was retained by Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc. (the "Client") to conduct a Phase II Environmental Site Assessment (ESA) of the Property located at 13 Mountain Street, and 19, 21 and 23 Elm Street, Grimsby, Ontario, herein referred to as the "Phase II Property" or "Site". It is DS's understanding that the Client currently owns 13 Mountain Street and 19 Elm Street, and is intending on acquiring 21 and 23 Elm Street. Based on this understanding, the Phase II ESA is intended to be used for both pre-purchase due diligence on 21 and 23 Elm Street, as well as in in support of future filing of a Record of Site Condition as part of the proposed redevelopment of the Phase II Property for residential purposes. It is further understood that the proposed development will consist of a 7 – 10-storey building, with up to 3 levels of underground parking.

The Phase II ESA was conducted in general accordance with the CSA Standards Association protocols outlined in the document *"Phase II Environmental Site Assessment, CSA Standard Z769-00 (R2013)"* dated 2000, and reaffirmed in 2013 as well as in general accordance with the requirements, methodology and practices for a Phase Two ESA as described in Ontario Regulation 153/04 (as amended). The objective of this Phase II ESA is to confirm whether contaminants are present, and at what concentration are they present on the Phase II Property, as related to the Areas of Potential Environmental Concern (APEC) identified in the Phase One ESA.

1.1 Site Description

The Phase One Property is a 0.48 hectares (1.19 acres) parcel of land situated within a mixed residential and commercial neighbourhood in the Town of Grimsby, Ontario. The Phase One Property is located on the northeast corner of the intersection of Elm Street and Mountain Street. A Site Location Plan is provided in Figure 1.

For the purposes of this report, Elm Street is assumed to be aligned in an east-west orientation, and Mountain Street in a north-south orientation. A Plan of Survey was provided for 13 Mountain Street and 19 Elm Street, dated February 21, 2021 and prepared by J.D. Barnes Limited, an Ontario Land Surveyor, has been provided under Appendix A. A Plan of Survey was not provided for 21 Elm Street and 23 Elm Street.

The Phase One Property is developed with five (5) buildings. Located at 13 Mountain Street are two (2) buildings, one occupied H&R Block and a skin care clinic occupying the main floor and a residential unit is upstairs. The second building is used as an office by Castlepoint Numa on the main floor and the upstairs is occupied by a residential unit. There is a

motorcycle shop located at 19 Elm Street. A Denture and Anti-Snoring Clinic is located at 21 Elm Street and a residential house with a detached garage is located at 23 Elm Street. Excluding the Site buildings, a paved parking lot occupies the remaining portions at 13 Mountain Street, 19 and 21 Elm Street. Additionally, 19 and 21 Elm Street have a shed, located adjacent to the Site buildings. A Site Plan depicting the orientation of the buildings on-site is provided in Figure 2.

1.2 Property Ownership

The Property is currently owned by Valentine Coleman 1 Inc. and Valentine Coleman 2 Inc.

1.3 Applicable Site Condition Standards

The applicable Site Condition Standards (SCS) for the Phase II Property are considered by the Qualified Person (QP) to be the Table 2 SCS: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Use with medium-fine textured soils as contained in the April 15, 2011 Ontario Ministry of Environment, Conservation and Parks (MECP) document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", herein referred to as the "Table 2 SCS".

The selection of the Table 2 SCS is considered appropriate based on the following rationale:

- The proposed future use of the Phase II Property will be residential;
- The Site is not located within 30 m of a water body;
- During the 2021 Terraprobe Phase Two ESA investigation, the completed grain size analysis determined the soil type to be medium/fine.
- The pH of the soils analyzed during this Phase II ESA are within the accepted range specified under O.Reg. 153/04 (as amended); and
- Bedrock was not encountered within 2 metres of the ground surface

2.0 Background Information

2.1 Physical Setting

2.1.1 Water Bodies and Areas of Natural Significance

The nearest water body is Forty Mile Creek, located approximately 110 m west of the Site. Lake Ontario is located approximately 1.5 km east of the Property. Based on monitoring wells installed on the Property as part of a previous geotechnical and hydrogeological investigation by Terraprobe, the approximate depth to ground water elevation ranged from

92.8 to 95.5 masl within the over burden. During the previous investigation the groundwater flow direction was determined to be south to southwesterly, likely due to the monitoring wells not reaching stabilization. Groundwater flow is anticipated to flow north/northwest towards Forty Mile Creek and Lake Ontario.

No areas of natural significance were identified within the Phase II Property Area.

2.1.2 Topography and Surface Water Draining Features

The topography on the Phase One Property and within the Phase One Study Area is generally flat with a surficial elevation of 95 metres above sea level (masl). Most of the Site is a paved parking lot or driveway, as such stormwater catch basins are present on-Site. Surface water flow associated with precipitation events is anticipated to run overland and drain into the municipal storm sewer catch basins.

2.2 Past Investigations

2.2.1 Previous Report Summary

DS reviewed the following environmental, geotechnical and hydrogeological reports prepared for the Property by Terraprobe Inc. (Terraprobe). The Terraprobe reports were completed for the western portion of the current Phase One Property and included only 13 Mountain Street and 19 Elm Street. The reports were provided by the client to DS.

- *"Phase One Environmental Site Assessment, 19 Elm Street and 13 Elm Street, Grimsby, Ontario,"* prepared for Valentine Colman Inc, prepared by Terraprobe, dated May 8, 2018 (Terraprobe Inc 2018 Phase One ESA)
- "*Phase Two Environmental Site Assessment, 19 Elm Street and 13 Elm Street, Grimsby, Ontario"* prepared for Valentine Colman 1 Inc and Valentine Coleman 2 Inc, prepared by Terraprobe, dated May 31, 2021(Terraprobe 2021 Phase Two ESA)
- "*Geotechnical Investigation 19 Elm Street and 13 Mountain Street, Grimsby, Ontario"* prepared for Valentine Colman 1 Inc and Valentine Coleman 2 Inc, prepared by Terraprobe, dated May 18, 2021(Terraprobe 2021 Geotechnical Investigation)
- "*Hydrogeological Investigation 19 Elm Street and 13 Mountain Street, Grimsby, Ontario"* prepared for Valentine Colman 1 Inc and Valentine Coleman 2 Inc, prepared by Terraprobe, dated July 30, 2021(Terraprobe 2021 Hydrogeological Investigation)

These reports were reviewed to assess the presence of known or suspected PCAs and APECs, and to determine if there are known soil and/or groundwater impacts on the Phase One Property or on Properties within the Phase One Study Area.

Based on the information reviewed by DS, the location of the Phase One Property, and the proposed future land use, residential, the most applicable Site Condition Standards as defined by the Ministry of the Environment, Conservation, and Parks (MECP) in the document "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", dated April 15, 2011 are considered to be:

- Table 2 SCS: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Use with medium-fine textured soils.

The analytical data provided in the previous reports were compared to the Table 2 SCS to assess whether there are known areas of impacted soil and/or groundwater on the Phase One Property. A summary of the pertinent details of the reports reviewed is provided below:

Terraprobe 2018 Phase One ESA

The Terraprobe Phase One ESA report was conducted in general accordance with Ontario Regulation 153/04, dated April 15, 2011 (as amended), and included a review of readily available historical records and reasonably ascertainable regulatory information, a Site Reconnaissance, interviews, evaluation of information, and reporting. The following pertinent information was noted by DS:

- Site consists of two contiguous parcels of land covering a total area of approximately 0.32 hectares (1.79 acres). The northern portion of the Site (13 Mountain Street) consists of a residential house which has been converted to a restaurant. A former carriage house is located on the northeast portion of the Site that is currently used for residential and retail purposes. The southern portion of 19 Elm Street consists of a former church which is currently occupied by a billiards hall, restaurant and bar. The buildings were developed prior to 1884
- Based on the age of the building it is likely that the former church building was formerly heated with coal. A small hinged metal plate was observed along the exterior north facing wall of the building that is likely a former coal chute, located at 19 Elm Street (PCA-26)
- Based on the age of the building it is likely that the restaurant building was formerly heated with coal. Coal burning fire places were observed in the building located at 13 Mountain Street (PCA-27)
- Former coal storage was located at 26 Mountain Street (currently 27 Main Street), approximately 50 m northeast of the Site (PCA-2)

- Two (2) underground storage tanks with a capacity of 500 gallons (1,900 L) were formerly located at 9 Main Street, approximately 90 m northeast of the Property. A former garage is depicted south of the tanks, approximately 50 m northeast of the Property (PCA-9)
- A Wagan Maker was formerly located at 20 Mountain Street (currently 11 Mountain Street), north adjacent to the Phase One Property (PCA-1)
- Consumers Box and Lumber Co Ltd, a basket factory and warehouse was formerly located at 15 – 36 Oak Street (currently part of a vacant commercial land CP 4 LOTS 187-189 PT LOTS;172,181-184,18), approximately 50 m east of the Site (PCA-7)

Based on these findings, Terraprobe recommended the completion of a Phase Two ESA.

Terraprobe 2021 Phase Two ESA

The Phase Two ESA involved the advancement of eight (8) boreholes (BH1 to BH8) to depths ranging between 12.8 to 18.4 mbgs. Monitoring wells were installed in six (6) of the eight (8) borehole (BH1 to BH6) locations, screened at depths ranging between 6.1-9.8 mbgs.

The soil conditions were described as an upper layer of earth fill, underlain by clayey silt till and bedrock of the Queenston Formation. During the investigation the groundwater flow direction was determined to be south to southwesterly, likely due to the monitoring wells not reaching stabilization. Groundwater flow is anticipated to flow north / northwest towards Forty Mile Creek and Lake Ontario.

Soil samples were submitted for analysis of metals and inorganics, PHCs, VOCs and PAHs. The results of the chemical analyses identified exceedances of the applicable SCS for metals within the fill stratum at depths ranging between 0-2.0 mbgs. EC and SAR impacts were identified in soil; however these were considered to be exempt per Section 49(1).1 of O.Reg. 153/04 (as amended). The soil samples tested from the native clayey silt stratum were reported to satisfy the Table 2 SCS.

Table 2-1: Summary of Impacts Previously Identified in Soil

Sample ID	Sample Depth (mbgs/masl)	Parameter	MECP Table 2 SCS M/F (µg/g)	Reported Value
BH1 SS1	0.0-0.6/ 92.8-92.2	Cadmium	1.2	**1.8**
		Lead	120	**307**
		Zinc	340	**489**
BH1 SS2	0.8-1.2/ 92.3-91.9	Cadmium	1.2	**2.1**
		Lead	120	**171**
		Zinc	340	**403**

Sample ID	Sample Depth (mbgs/masl)	Parameter	MECP Table 2 SCS M/F (µg/g)	Reported Value
		Arsenic	18	**25**
BH3 SS2	0.8-1.2/ 94.2-93.8	Lead	120	**188**
		Arsenic	18	**23**
DUP2 (BH3 SS2)	0.8-1.2/ 94.2-93.8	Lead	120	**210**
		Arsenic	18	**21**
BH4 SS3	1.5-2.0/ 93.2-92.7	Lead	120	**168**
		Arsenic	18	**27**
DUP3 (BH4 SS3)	1.5-2.0/ 93.2-92.7	Lead	120	**141**
		Arsenic	18	**36**
BH5 SS2	0.8-1.2/ 92.3-91.9	Cadmium	1.2	**2.0**
		Lead	120	**131**
		Zinc	340	**401**
		Arsenic	18	**28**
BH6 SS2	0.8-1.2/ 92.3-91.9	Cadmium	1.2	**1.5**
		Lead	120	**539**
		Zinc	340	**505**
		Arsenic	18	**20**
		Mercury	0.27	**13.4**
BH7 SS1	0.0-0.6/ 93.5-92.9	Barium	390	**418**
		Lead	120	**509**
		Molybdenum	6.9	**16.5**
		Arsenic	18	**45**
BH7 SS3	1.5-2.0/ 92.0-91.5	Lead	120	**173**
		Vanadium	86	**91.4**
		Arsenic	18	**28**
BH8 SS1	0.0-0.6/ 93.5-92.9	Cadmium	1.2	**1.4**
		Zinc	340	**368**
		Arsenic	18	**22**
BH8 SS3	1.5-2.0/ 92.0-91.5	Barium	390	**489**
		Cadmium	1.2	**2.2**
		Lead	120	**870**
		Zinc	340	**388**
		Arsenic	18	**34**

Notes: # – Exceeds Table 8 SCS

Groundwater samples were retrieved from the monitoring wells installed and submitted for analysis of metals and inorganics, PHCs, VOCs and PAHs. The groundwater samples were reported to satisfy the Table 2 SCS with the exception of sodium and chloride, which were also considered exempt per Section 49(1).1 of O.Reg. 153/04 (as amended).

- Paragraph 1 of Section 49.1 of O.Reg 153/04 states that Electrical Conductivity (EC) and Sodium Adsorption Ratio (SAR) are deemed not to be exceedances if the Qualified Person (QP) attributes these results to the use of de icing salt application to surfaces for the safety of vehicular and pedestrian traffic under conditions of snow and ice or

both. A review of the analytical results indicated that EC and SAR were elevated in fill/native soil onsite but in areas associated with parking and driveways where de-icing salt would have been used. On this basis, the fill/native soil is deemed not to exceed the MECP Table 2 SCS for EC and SAR.

- The applicable Site Condition Standards were met in the native soil located on the Property.
- Ground water samples were collected from monitoring wells BH1 to BH6 in May 2021 and submitted to AGAT Laboratories for chemical analysis of Metals, Hydride Metals, ORPs, PHCs, VOCs, BTEX, and PAHs.
- Ground water met the applicable MECP Table 2 SCS. Paragraph 1 of Section 49.1 of 0 Reg 153/04 states that Sodium and Chloride in ground water are deemed not to be exceedances if the Qualified Person (QP) attributes these results to the use of de-icing salt application to surfaces for the safety of vehicular and pedestrian traffic under conditions of snow and ice or both. A review of the analytical results indicated that Sodium and Chloride were elevated in ground water onsite but in areas associated with parking and driveways where de-icing salt would have been used. On this basis the ground water is deemed not to exceed the MECP Table 2 SCS for Sodium and Chloride.
- It is understood that this site is undergoing redevelopment which will include a new mid-rise residential building with adaptive re-use of two existing buildings, new open space areas and two and a half levels of below grade parking.
- Four (4) grain size analysis were completed for samples ranging in depths from 3.1 to 8.1. It was reported that soil samples ranged 64.3% to 72.7% smaller then 75 micrometres, indicating medium/fine soil texture.
- Terraprobe concluded that further work including remediation or a Risk Assessment will be required before a RSC can be filed for the Property. Additional environmental investigations would be required prior to the RSC submission.

Terraprobe 2021 Geotechnical Investigation

The geotechnical investigation was completed concurrently with the Terraprobe Phase One and Two Environmental Site Assessments and a hydrogeological assessment. The field work for this investigation was carried out from March 23rd to March 31st, 2021, during which time eight (8) boreholes were drilled to depths of about 12.8 to 18.4 mbgs. Monitoring wells were installed in six (6) of the boreholes extending to depths of 6.1 to 9.8 mbgs

Underlying the surficial materials at all borehole locations, a layer of earth fill was encountered, extending to depths of 2.3 to 4.0 m below existing grade (Elev. 89.8 to 91.5 masl). The earth fill was variable but typically consisted of sand and gravel with varying amounts of silt and clay. Trace brick fragments were observed within the fill material at BH3 and BH4. The earth fill was typically brown in colour. Standard Penetration Testing within the earth fill indicated N values ranging from 4 to greater than 50 blows per 0.3 m, indicating a loose to very dense state of compaction.

Underlying the earth fill, all boreholes encountered a native stratum of clayey silt with gravel, some sand, extending to depths of 12.6 to 18.3 m below existing grade (Elev. 74.8 to 82.4 masl). Boreholes BH1, BH3, BH5, and BH7 encountered trace red shale fragments between 7.6 and 9.1 m below existing grade. All boreholes with the exception of BH5 were terminated within the clayey silt. The clayey silt was typically brown to grey. Standard Penetration Testing carried out within the clayey silt indicated N values ranging from 20 to greater than 50 blows per 0.3 m, indicating a very stiff to hard consistency.

Terraprobe 2021 Hydrogeological Investigation

The hydrogeological investigation was completed concurrently with the Terraprobe Phase One and Two Environmental Site Assessments and a geological assessment. In the six (6) installed monitoring wells in March 2021, the groundwater elevation ranged from 92.8 to 95.5 masl. During the investigation the groundwater flow direction was determined to be south to southwesterly, likely due to the monitoring wells not reaching stabilization. Groundwater flow is anticipated to flow north / northwest towards Forty Mile Creek and Lake Ontario.

2.2.2 Use of Previous Analytical Results

The soil and groundwater data obtained from Terraprobe are considered to be of adequate quality, and therefore has been relied upon to assess the soil and groundwater conditions at the Phase II Property. No issues related to data quality or sampling methodology were identified. A summary of the previous laboratory data has been appended to this report.

3.0 Scope of the Investigation

The scope of the Phase II ESA was designed to investigate the portions of the Site determined in the Phase One ESA to be Areas of Potential Environmental Concern. This Phase II ESA was conducted in general accordance with the CSA Standards Association protocols outlined in the document *"Phase II Environmental Site Assessment, CSA Standard Z769-00 (R2013)"* dated

2000, and reaffirmed in 2013. The scope of the investigation including the sampling on existing monitoring wells on-Site and to provide a summary of the work that has been completed to date on the Property and what additional work is required for an RSC submission in the future.

4.0 Investigation Method

The Phase II ESA followed the methodology outlined in the following documents:

- Ontario Ministry of the Environment "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario" (December 1996);
- Ontario Ministry of the Environment "Guide for Completing Phase II Environmental Site Assessments under Ontario regulation 153/04" (June 2011);
- Ontario Ministry of the Environment "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" (July 2011) (Analytical Protocol);

The methods used in the Phase II ESA investigation did not differ from the associated standard operating procedures.

4.1 Drilling

The borehole locations were cleared of underground public and private utility services prior to commencement of drilling. A summary of the drilling activities is provided in the table below.

Table 4-1: Summary of Drilling Activities

Parameter	Details
Drilling Contractor	Pontil Drilling
Drilling Date	November 22, 2024
Drilling Equipment Used	Truck-mounted CME 75
Measures taken to minimize the potential for cross contamination	Soil sampling was conducted using a 50 mm stainless steel split spoon sampler. The split spoon sampler was brushed clean of soil, washed in municipal water containing phosphate free detergent, rinsed in municipal water, and then rinsed with distilled water for each sampling interval in order to reduce the potential for cross contamination;
Sample collection frequency	Samples were collected at a frequency of every 0.6 m per 0.8 m from the ground surface to 3.1 mbgs, followed by one sample per 1.5 m to borehole termination depth.

4.2 Soil Sampling

Soil samples were collected using a 50 mm stainless steel split spoon sampler. Discrete soil samples were collected from the split-spoon samplers by DS personnel using dedicated nitrile gloves.

A portion of each sample was placed in a resealable plastic bag for field screening, and the remaining portion was placed into laboratory supplied glass sampling jars. Samples intended for VOC and the F1 fraction of petroleum hydrocarbons analysis were collected using a laboratory-supplied soil core sampler, placed into the vials containing methanol for preservation purposes and sealed using Teflon lined septa lids. All sample jars were stored in dedicated coolers with ice for storage, pending transport to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

The subsurface soil conditions were logged by DS personnel at the time of drilling and recorded on field borehole logs. The borehole logs are presented under Appendix B.

4.3 Field Screening Measurements

All retrieved soil samples were screened in the field for visual and olfactory observations. No obvious visual or olfactory evidence of potential contamination were noted. No aesthetic impacts (e.g. cinders, slag, hydrocarbon odours) were encountered during this investigation. The soil sample headspace vapour concentrations for all soil samples recovered during the investigation were screened using portable organic vapour testing equipment in accordance with the procedure outlined in the MECP's '*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario'.*

The soil samples were inspected and examined to assess soil type, ground water conditions, and possible chemical contamination by visual and olfactory observations or by organic vapour screening. Samples submitted for chemical analysis were collected from locations judged by the assessor to be most likely to exhibit the highest concentrations of contaminants based on several factors including (i) visual or olfactory observations, (ii) sample location, depth, and soil type (iii) ground water conditions and headspace reading. A summary of the equipment used for field screening is provided below:

Table 4-2: Field Screening Equipment

Parameter	Details
Make and Model of Field Screening Instrument	RKI Eagle 2, Model 5101-P2
Chemicals the equipment can detect and associated detection limits	VOCs with dynamic range of 0 parts per million (ppm) to 2,000 ppm PHCs with range of 0 to 50, 000 ppm

Parameter	Details
Precision of the measurements	3 significant figures
Accuracy of the measurements	VOCs: ± 10% display reading + one digit Hydrocarbons: ± 5% display reading + one digit
Calibration reference standards	PID: Isobutylene CGD: Hexane
Procedures for checking calibration of equipment	In-field re-calibration of the CGI was conducted (using the gas standard in accordance with the operator's manual instructions) if the calibration check indicated that the calibration had drifted by more than +/- 10%.

A summary of the soil headspace measurements are provided in the borehole logs, provided under Appendix B.

4.4 Groundwater Monitoring Well Installation

One (1) monitoring well was installed upon completion of one (1) of the boreholes advanced on the Phase II Property. The monitoring well was constructed of 51-millimetre (2-inch) inner diameter (ID) flush-threaded schedule 40 polyvinyl chloride (PVC) risers, equipped with a 3.1 m length of No. 10 slot PVC screen. The well screen was sealed at the bottom using a threaded cap and at the top with a lockable J-plug. Silica sand was placed around and up to 0.6m above the well screen to act as a filter pack. Bentonite was placed from the ground surface to the top of the sand pack. The well was completed with protective flush mount casing.

Disposable nitrile gloves were used to minimize the potential for cross-contamination during well installation. Dedicated equipment was used for well development and sampling for further minimize the risk of cross contamination.

The installed monitoring well was dry on November 26th, 2024 and December 6th, 2024. The well is situated in very stiff to hard clayey silt soil and will require time for water to flow into the well.

4.5 Sediment Sampling

No sediment was present on the Phase II Property at the time of this investigation. Sediment sampling was not conducted as a result.

4.6 Analytical Testing

The soil samples collected by DS in November 2024 were submitted to Bureau Veritas (BV) Analytics under chain of custody protocols. BV is a member of the Standards Council of Canada (SCC) and meets the requirements of Section 47 of O.Reg. 153/04 (as amended)

certifying that the analytical laboratory be accredited in accordance with the International Standard ISO/IEC 17025 and with standards developed by the Standards Council of Canada. BV conducted the analyses in accordance with the MECP document "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" dated March 9, 2004 (revised on July 1, 2011).

4.7 Residue Management Procedures

The soil cuttings generated by the borehole drilling program were stored in 205 L drums and left on-Site for disposal by a MECP approved waste-hauler for disposal at a MECP-approved waste management facility. Excess equipment cleaning fluids were stored in 20-L sealed plastic pails and temporarily stored on Site for disposal by a MECP approved waste-hauler for disposal at a MECP-approved waste management facility.

4.8 Quality Assurance and Quality Control Measures

4.8.1 Sample containers, preservation, labelling, handling and custody for samples submitted for laboratory analysis, including any deviations from the SAP

All soil and groundwater samples were stored in laboratory-supplied sample containers in accordance with the MECP Analytical Protocol. A summary of the preservatives supplied by the laboratory is provided in the table below.

Table 4-3: Summary of Sample Bottle Preservatives

Media	Parameter	Sample Container
Soil	PHCs F1 VOCs	40 mL methanol preserved glass vial with septum lid.
	PHCs F2-F4 metals and ORPs PAHs	120 mL or 250 mL unpreserved glass jar with Teflon™-lined lid.

Groundwater samples were not collected by DS at this time due to no recovery in the newly installed monitoring well.

Each soil sample container was labelled with a unique sample identification, the project number, and the sampling date. All samples were placed in an ice-filled cooler upon completion of sampling and kept under refrigerated conditions until the time of delivery to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

4.8.2 Description of equipment cleaning procedures followed during all sampling

Dedicated, disposable nitrile gloves were used for each sampling event to reduce the potential for cross-contamination.

The split spoon sampler was brushed clean of soil, washed in municipal water containing phosphate free detergent, rinsed in municipal water, and then rinsed with distilled water for each sampling interval in order to reduce the potential for cross contamination. Dedicated equipment was used for well development and sampling for further minimize the risk of cross contamination. Non-dedicated equipment (i.e. interface probe) was cleaned before initial use and between all measurement points with a solution of Alconox™ and distilled water. The Alconox™ solution was rinsed off using distilled water.

5.0 Review and Evaluation

5.1 Geology

Fill material was encountered in all boreholes advanced across the Site to depths ranging from 2.3 to 4.0 mbgs. The fill generally consisted of sand and gravel with some silt and clay and with traces of brick fragments and trace shale. Beneath the fill material a native clayey silt till with gravel and some sand was encountered extending to depths of 18.3 mbgs.

5.2 Fine-Medium Soil Texture

During the Terraprobe 2021 Phase Two ESA, four (4) soil samples were submitted for a grain size analysis. It was determined that the soil texture on Site is medium/fine textured.

5.3 Soil Field Screening

Soil vapour headspace readings were collected at the time of sample collection, the results of which are presented on the borehole logs (Appendix B). The soil vapour headspace readings were collected using a PID and CGD in methane elimination mode. The PID and CGD readings were 0 ppm.

5.4 Soil Quality

As part of the previous Terraprobe 2021 Phase Two ESA, eight (8) boreholes were drilled in March 2021, on the western portion of the Site, associated with 13 Mountain Street and 19 Elm Street. In November 2024, DS advanced four (4) boreholes on the eastern portion of the Site, associated with 21 and 23 Elm Street. Soil samples were submitted for analysis of metals and inorganics, PHCs, VOCs and PAHs. The results of the chemical analyses identified exceedances of the applicable SCS for metals, hydride-forming metals and mercury within

the fill material at depths ranging between 0-2.9 mbgs. EC and SAR impacts were identified in soil; however, these were considered to be exempt per Section 49(1).1 of O.Reg. 153/04 (as amended).

The Laboratory Certificates of Analysis are provided in Appendix C.

5.5 Ground Water Quality

As part of the previous Terraprobe 2021 Phase Two ESA, six (6) monitoring wells were instrumented out of the eight (8) boreholes that were drilled in March 2021. The monitoring wells are located on the western portion of the Site, associated with 13 Mountain Street and 19 Elm Street. In November 2024, DS installed one (1) monitoring well on the eastern portion of the Site, associated with 23 Elm Street.

Terraprobe retrieved groundwater samples from the monitoring wells installed in 2021 and submitted samples for analysis of metals and inorganics, PHCs, VOCs and PAHs. The groundwater samples were reported to satisfy the Table 2 SCS with the exceptions of sodium and chloride, which were also considered exempt per Section 49(1).1 of O.Reg. 153/04 (as amended). Additionally, MW24-1 that was installed by DS on November 22, 2024, was dry when checked for ground water levels on November 26th and Dec 6th, 2024. Further water level monitoring and analysis is required for MW24-1.

A copy of the Terraprobe Laboratory Certificates of Analysis are provided in Appendix C.

6.0 Conclusions

Based on the findings of the Phase One ESA it was concluded that a Phase II ESA is warranted in order to assess the soil and groundwater conditions on the Phase II Property. The following is a summary of the Phase II ESA findings and recommendations:

- Terraprobe conducted a Phase Two ESA dated May 2021 concurrently with a geotechnic and hydrological investigation. The field work for this investigation was carried out from March 23rd to March 31st, 2021, during which time eight (8) boreholes (BH1 to BH8) were drilled to depths of about 12.8 to 18.4 mbgs. Monitoring wells were installed in six (6) of the boreholes (BH1 to BH6) extending to depths of 6.1 to 9.8 mbgs. These boreholes and monitoring wells are associated with 13 Mountain Street and 19 Elm Street, occupying the western and central portions of the Site. The groundwater flow direction was determined to be south to southwesterly, likely due to the monitoring wells not reaching stabilization. Groundwater flow is anticipated to flow north/northwest towards Forty Mile Creek and Lake Ontario.

- On November 22, 2024, four (4) boreholes (MW24-1, BH24-2 to BH24-4) were advanced to a maximum depth of 7.62 mbgs. One (1) borehole was instrumented with a monitoring well (MW24-1) screened from 4.57 to 7.62 mbgs.
- The soil conditions were described as an upper layer of earth fill, underlain by clayey silt till followed by bedrock of the Queenston Formation.
- Soil samples were submitted for analysis of metals and inorganics, PHCs, VOCs and PAHs. The results of the chemical analyses identified exceedances of the applicable SCS for metals, hydride-forming metals and mercury within the fill stratum at depths ranging between 0-2.9 mbgs. EC and SAR impacts were identified in soil; however these were considered to be exempt per Section 49(1).1 of O.Reg. 153/04 (as amended). The soil samples tested from the native clayey silt stratum were reported to satisfy the Table 2 SCS.
- Groundwater samples were retrieved from the monitoring wells installed and submitted for analysis of metals and inorganics, PHCs, VOCs and PAHs. The groundwater samples were reported to satisfy the Table 2 SCS with the exception of sodium and chloride, which were also considered exempt per Section 49(1).1 of O.Reg. 153/04 (as amended).
- It is noted that there are exceedances for metals, hydride-forming metals and mercury within the fill material throughout the Site, ranging in depth from 0 to 2.9 mbgs.
- It is anticipated based on the future building design that the fill material will be excavated and removed from the property to accommodate the underground parking structure. Post excavation verification soil sampling will be required upon removal of the impacted fill. Alternately, if there are areas in which the fill material will not be removed, it can be managed in place through the completion of a Risk Assessment and implementation of Risk Management Measures.
- All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required.

6.1 Qualifications of the Assessors

Marina Nadj, MES

Ms. Marina Nadj, MES, is a Project Coordinator with DS Consultants Ltd. She obtained a Master of Environmental Science from University of Guelph. Marina holds a Post Graduate Certificate in Environmental Engineering Applications from Conestoga College. She has experience in conducting Phase One and Two Environmental Site Assessments, and in completing soil and groundwater contaminant programs in accordance with Ontario Regulation 153/04 to support the future filing of Record of Site Conditions.

Teresa Weatherhead, LEL, QP_{ESA}

Ms. Teresa Weatherhead is an Environmental Team Lead with DS Consultants Limited who has 17 years of direct experience in the consulting industry. Ms. Weatherhead has an Honours Science Degree from the University of Waterloo and a Post Graduate Diploma in Environmental Engineering Applications from Conestoga College. Ms. Weatherhead is a registered Limited Engineering Licensee (LEL) in the Province of Ontario. Ms. Weatherhead has conducted and supervised numerous Phase One and Phase II Environmental Site Assessments for a variety of agricultural, residential, industrial, commercial and institutional properties. She also has experience in site remediation, environmental monitoring, submission of Record of Site Conditions and Excess Soil Management. Teresa is considered a Qualified Person to conduct Environmental Site Assessments as defined by Ontario Regulation 153/04 (as amended).

6.2 Signatures

This Phase II ESA was conducted under the supervision of Teresa Weatherhead, LEL, in accordance with the requirements of O.Reg. 153/04 (as amended). The findings and conclusions presented have been determined based on the information obtained at the time of the investigation, and on an assessment of the conditions of the Site at this time.

We trust this report meets with your requirements. Should you have any questions regarding the information presented, please do not hesitate to contact our office.

Yours truly,

DS Consultants Ltd

Professional Engineers
Ontario
Limited Engineering Licensee
Name: T. M. WEATHERHEAD
Number: 100232838
2024-12-16
Limitations: Phase 1 and Phase 2 Environmental Site Assessments and filing Record of Site Conditions.
Association of Professional Engineers of Ontario

Marina Nadj, MES
Project Coordinator

Teresa Weatherhead, LEL, QP$_{ESA}$
Environmental Team Lead

6.3 Limitations

This report was prepared for the sole use of Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc. and is intended to provide an assessment of the environmental condition on the property located at 13 Mountain Street, and 19, 21 and 23 Elm Street, Grimsby, Ontario. The information presented in this report is based on information collected during the completion of the Phase II Environmental Site Assessment by DS Consultants Ltd. The material in this report reflects DS' judgment in light of the information available at the time of report preparation. This report may not be relied upon by any other person or entity without the written authorization of DS Consultants Ltd. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this documents or findings, conclusions and recommendations represented herein, is at the sole risk of said users.

The conclusions drawn from the Phase II ESA were based on information at selected observation and sampling locations. Conditions between and beyond these locations may become apparent during future investigations or on-Site work, which could not be detected or anticipated at the time of this investigation. The sampling locations were chosen based upon a cursory historical search, visual observations and limited information provided by persons knowledgeable about past and current activities on this Site during the Phase II ESA activities. As such, DS Consultants Ltd. cannot be held responsible for environmental conditions at the Site that was not apparent from the available information.

7.0 References

- Armstrong, D.K. and Dodge, J.E.P. *Paleozoic Geology Map of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 219.
- Chapman, L.J. and Putnam, D.F. 2007. *The Physiography of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 228.
- Freeze, R. Allen and Cherry, John A., 1979. *Ground water*. Page 29.
- Ontario Ministry of the Environment, December 1996. *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario.*
- Ontario Ministry of Environment, 15 April 2011. *Soil, Ground Water and Sediment Standards for use under part XV.1of the Environmental Protection Act.*
- Ontario Ministry of the Environment, June 2011. *Guide for Completing Phase II Environmental Site Assessments under Ontario regulation 153/04.*
- Ontario Ministry of the Environment, July 2011. *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.*
- The Ontario Geological Survey. 2003. *Surficial Geology of Southern Ontario*.
- *"Phase One Environmental Site Assessment, 19 Elm Street and 13 Elm Street, Grimsby, Ontario,"* prepared for Valentine Colman Inc, prepared by Terraprobe, dated May 8, 2018 (Terraprobe Inc 2018 Phase One ESA)
- "*Phase Two Environmental Site Assessment, 19 Elm Street and 13 Elm Street, Grimsby, Ontario"* prepared for Valentine Colman 1 Inc and Valentine Coleman 2 Inc, prepared by Terraprobe, dated May 31, 2021(Terraprobe 2021 Phase Two ESA)
- "*Geotechnical Investigation 19 Elm Street and 13 Mountain Street, Grimsby, Ontario"* prepared for Valentine Colman 1 Inc and Valentine Coleman 2 Inc, prepared by Terraprobe, dated May 18, 2021(Terraprobe 2021 Geotechnical Investigation)
- "*Hydrogeological Investigation 19 Elm Street and 13 Mountain Street, Grimsby, Ontario"* prepared for Valentine Colman 1 Inc and Valentine Coleman 2 Inc, prepared by Terraprobe, dated July 30, 2021(Terraprobe 2021 Hydrogeological Investigation)

Tables

Table 1: Summary of Metals and ORPs in Soil

Parameter	MECP Table 2 SCS	BH1 SS1	BH1 SS6	BH2 SS2	BH3 SS2	DUP2 (BH3 SS2)	BH4 SS3	DUP3 (BH4 SS3)	BH5 SS2	BH6 SS2	BH6 SS5	BH7 SS1
Date of Collection		25/Mar/21	25/Mar/21	25/Mar/21	25/Mar/21	26/Mar/21	25/Mar/21	26/Mar/21	25/Mar/21	25/Mar/21	25/Mar/21	31/Mar/21
Date Reported		6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	9/Apr/21
Sampling Depth (mbgs)		0.0 - 0.6	4.6 - 5.0	0.8 - 1.2	0.8 - 1.2	0.8 -1.2	1.5 - 2.0	1.5 - 2.0	0.8 - 1.2	0.8 - 1.2	3.1 - 3.5	0.0 - 0.6
Analytical Report Reference No.		21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H728979
Antimony	7.5	<0.8	<0.8	<0.8	<0.8	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	18	11	6	**25.0**	**23.0**	**21**	**27**	**36**	**28**	**20**	5	**45**
Barium	390	147	106	308	243	228	219	360	368	255	116	**418**
Beryllium	5	0.5	0.5	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.7
Boron (Hot Water Soluble)	1.5	0.29	0.58	0.34	1.18	1.04	0.82	0.82	0.39	0.4	0.21	0.31
Cadmium	1.2	**1.8**	<0.5	**2.1**	0.9	1	0.8	1.2	**2**	**1.5**	<0.5	0.9
Chromium	160	34	21	34	25	24	20	20	38	24	23	20
Chromium VI	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cobalt	22	9.8	11.3	11.5	12.4	11.6	13.4	16.4	13.9	13.1	11.4	9.9
Copper	180	19.8	24.2	41.3	32.5	30.2	50.5	91.5	35.5	74	28.8	65.8
Lead	120	**307**	8	**171**	**188**	**210**	**168**	**141**	**131**	**539**	19	**509**
Mercury	1.8	0.32	<0.10	<0.10	<0.10	0.19	<0.10	<0.10	<0.10	**13.4**	0.26	<0.10
Molybdenum	6.9	1.4	<0.5	1.5	1.1	1	1.1	1.5	1.6	1.3	<0.5	**16.5**
Nickel	130	20	23	41	24	24	25	31	40	29	25	25
Selenium	2.4	<0.8	<0.8	0.8	<0.8	<0.8	<0.8	<0.8	1.1	1.5	<0.8	<0.8
Silver	25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	4.9	<0.5	6.3
Thallium	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9
Vanadium	86	35.4	29.2	36.9	28.2	30.1	26.6	25.6	29.9	30	29.7	25.8
Zinc	340	**489**	62	**403**	258	278	255	271	**401**	**505**	76	255
pH (pH Units)	NV	7.76	7.96	7.68	7.91	7.91	7.97	7.97	7.8	7.64	8	7.67
Conductivity (ms/cm)	0.7	**1.74**	0.326	**1.34**	**1.2**	**1.2**	0.507	0.545	**2.41**	0.576	0.264	0.538
Sodium Adsorption Ratio	5	**14.1**	1.44	**11.7**	2.43	2.55	**5.21**	**5.67**	**10.9**	2	0.668	4.56
Cyanide, Free	0.051	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Boron (Total)	120	10	11	14	12	14	17	17	12	8	9	16
Uranium	23	0.74	0.68	0.88	0.5	0.53	<0.50	0.51	0.75	0.83	0.67	0.75

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 1: Summary of Metals and ORPs in Soil

Parameter	MECP Table 2 SCS	BH7 SS3	BH8 SS1	BH8 SS3	MW24-1 SS4	MW24-1 SS5	BH24-2 SS2	BH24-3 SS2	BH24-3 SS6	BH24-4 SS3	BH24-4 SS6
Date of Collection		31/Mar/21	31/Mar/21	31/Mar/21	22/Nov/24	22/Nov/24	22/Nov/24	22/Nov/24	22/Nov/24	22/Nov/24	22/Nov/24
Date Reported		9/Apr/21	9/Apr/21	9/Apr/21	4/Dec/24	4/Dec/24	4/Dec/24	4/Dec/24	4/Dec/24	4/Dec/24	4/Dec/24
Sampling Depth (mbgs)		1.5 - 2.0	0.0 - 0.6	1.5 - 2.0	2.29 - 2.90	3.05 - 3.66	0.76 - 1.37	0.76 - 1.37	3.81 - 4.42	1.52 - 2.13	3.81 - 4.42
Analytical Report Reference No.		21H728979	21H728979	21H728979	R8430639	R8430639	R8430639	R8430639	R8430639	R8430639	R8430639
Antimony	7.5	<0.8	<0.8	<0.8	<0.20	<0.20	0.55	0.25	<0.20	3	<0.20
Arsenic	18	**28**	**22**	**34**	**37**	5.3	**39**	**22**	7.9	**50**	5.9
Barium	390	119	244	**489**	**490**	64	**680**	360	67	**770**	70
Beryllium	5	0.6	0.6	1	0.94	0.67	1.4	0.93	0.65	0.97	0.58
Boron (Hot Water Soluble)	1.5	0.42	0.33	-	0.2	0.14	0.22	0.19	0.18	1.5	0.19
Cadmium	1.2	0.8	**1.4**	**2.2**	**2.2**	0.1	**2.6**	1.1	<0.10	**3.2**	<0.10
Chromium	160	24	22	26	21	21	29	21	20	25	18
Chromium VI	10	<0.2	<0.2	-	0.21	<0.18	0.41	0.54	<0.18	<0.18	-
Cobalt	22	11.3	9.2	16.5	18	11	22	14	11	18	10
Copper	180	40.8	27.3	55.3	120	33	39	32	26	160	27
Lead	120	**173**	117	**870**	**200**	10	**220**	**150**	8.6	**1900**	9
Mercury	1.8	<0.10	<0.10	N/A	<0.050	<0.050	<0.050	<0.050	<0.050	**29**	-
Molybdenum	6.9	2.3	1.9	1.4	2.4	0.53	2.4	1.5	0.65	3.1	<0.50
Nickel	130	23	25	43	45	25	54	31	25	53	23
Selenium	2.4	1	<0.8	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	**6.5**	<0.50
Silver	25	<0.5	<0.5	<0.5	0.46	<0.20	0.27	<0.20	<0.20	2.8	<0.20
Thallium	1	<0.5	<0.5	<0.5	0.24	0.094	0.26	0.15	0.092	0.68	0.088
Vanadium	86	**91.4**	33.2	35.3	41	28	42	29	26	31	26
Zinc	340	243	**368**	**388**	**390**	63	**440**	290	64	**620**	53
pH (pH Units)	NV	7.61	7.52	-	7.3	8	7.09	7.48	7.76	7.28	7.92
Conductivity (ms/cm)	0.7	0.408	**0.902**	-	0.62	0.3	0.49	**1.1**	0.4	**2.4**	0.28
Sodium Adsorption Ratio	5	2.23	**5.51**	-	**5.1**	2.9	2.4	**9.1**	3.2	**10**	1
Cyanide, Free	0.051	<0.040	<0.040	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Boron (Total)	120	36	20	24	18	8.6	13	12	10	23	8.6
Uranium	23	0.94	1.01	0.76	0.65	0.51	0.93	0.51	0.53	0.53	0.51

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 2: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	BH1 SS2	BH1 SS6	BH2 SS3	BH2 SS6	BH5 SS6	DUP1 (BH5 SS6)	BH6 SS2	BH6 SS6	BH8 SS3	MW24-1 SS2	MW24-1 SS9
Date of Collection		25/Mar/21	25/Mar/21	23/Mar/21	23/Mar/21	24/Mar/21	24/Mar/21	25/Mar/21	25/Mar/21	31/Mar/21	22/Nov/24	22/Nov/24
Date Reported		6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	4/Dec/24	4/Dec/24
Sampling Depth (mbgs)		0.8 - 1.2	4.6 - 5.0	1.5 - 2.0	4.6 - 5.0	4.6 - 5.0	4.6 - 5.0	0.8 - 1.2	4.6 - 5.0	1.5 - 2.0	0.76 - 1.37	6.10 - 6.71
Analytical Report Reference No.		21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	R8430639	R8430639
Benzene	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.0060	<0.0060
Toluene	6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.25	<0.05	<0.020	<0.020
Ethylbenzene	1.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.010	<0.010
Xylenes	25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.020	<0.020
F1 (C6-C10)	65	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
F2 (C10-C16)	150	<10	<10	<10	<10	<10	<10	<10	<10	<10	<7.0	<7.0
F3 (C16-C34)	1300	<50	<50	<50	<50	<50	<50	<50	<50	<50	71	<50
F4 (C34-C50)	5600	<50	<50	<50	<50	<50	<50	<50	<50	<50	850	<50

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 2: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	BH24-2 SS2	BH24-3 SS3	BH24-4 SS2
Date of Collection		22/Nov/24	22/Nov/24	22/Nov/24
Date Reported		4/Dec/24	4/Dec/24	4/Dec/24
Sampling Depth (mbgs)		0.76 - 1.37	1.52 - 2.13	0.76 - 1.37
Analytical Report Reference No.		R8430639	R8430639	R8430639
Benzene	0.17	<0.040	<0.020	<0.020
Toluene	6	<0.040	<0.020	<0.020
Ethylbenzene	1.6	<0.040	<0.020	<0.020
Xylenes	25	<0.080	<0.040	<0.040
F1 (C6-C10)	65	<20	<10	<10
F2 (C10-C16)	150	<7.0	<7.0	<7.0
F3 (C16-C34)	1300	<50	72	93
F4 (C34-C50)	5600	55	690	220

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 3: Summary of VOCs in Soil

Parameter	MECP Table 2 SCS	BH1 SS2	BH1 SS6	BH2 SS3	BH2 SS6	BH5 SS6	DUP1 (BH5 SS6)	BH6 SS2
Date of Collection		25/Mar/21	25/Mar/21	23/Mar/21	23/Mar/21	24/Mar/21	24/Mar/21	25/Mar/21
Date Reported		6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21
Sampling Depth (mbgs)		0.8 - 1.2	4.6 - 5.0	1.5 - 2.0	4.6 - 5.0	4.6 - 5.0	4.6 - 5.0	0.8 - 1.2
Analytical Report Reference No.		21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643
Acetone	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	0.17	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromodichloromethane	1.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	0.12	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	2.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	0.18	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	2.9	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	1.7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	0.097	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	0.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,2-Dichloroethane	0.05	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	2.5	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Trans-1,2-Dichloroethylene	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	0.085	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Ethylbenzene	1.6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylene Dibromide	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	0.96	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Isobutyl Ketone	4.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl-t-Butyl Ether	1.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	2.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1,2,2-Tetrachloroethane	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	6	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	2.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	3.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	0.52	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Vinyl Chloride	0.022	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total Xylenes	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Hexane(n)	34	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorofluoromethane	5.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropene (cis + trans)	0.081	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 3: Summary of VOCs in Soil

Parameter	MECP Table 2 SCS	BH6 SS6	BH8 SS3	MW24-1 SS2	MW24-1 SS9
Date of Collection		25/Mar/21	31/Mar/21	22/Nov/24	22/Nov/24
Date Reported		6/Apr/21	6/Apr/21	4/Dec/24	4/Dec/24
Sampling Depth (mbgs)		4.6 - 5.0	1.5 - 2.0	0.76 - 1.37	6.10 - 6.71
Analytical Report Reference No.		21H727643	21H727643	R8430639	R8430639
Acetone	28	<0.50	<0.50	<0.49	<0.49
Benzene	0.17	<0.020	<0.020	<0.0060	<0.0060
Bromodichloromethane	1.9	<0.050	<0.050	<0.040	<0.040
Bromoform	0.26	<0.050	<0.050	<0.040	<0.040
Bromomethane	0.05	<0.050	<0.050	<0.040	<0.040
Carbon Tetrachloride	0.12	<0.050	<0.050	<0.040	<0.040
Chlorobenzene	2.7	<0.050	<0.050	<0.040	<0.040
Chloroform	0.18	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	2.9	<0.050	<0.050	<0.040	<0.040
1,2-Dichlorobenzene	1.7	<0.050	<0.050	<0.040	<0.040
1,3-Dichlorobenzene	6	<0.050	<0.050	<0.040	<0.040
1,4-Dichlorobenzene	0.097	<0.050	<0.050	<0.040	<0.040
1,1-Dichloroethane	0.6	<0.020	<0.020	<0.040	<0.040
1,2-Dichloroethane	0.05	<0.030	<0.030	<0.049	<0.049
1,1-Dichloroethylene	0.05	<0.050	<0.050	<0.040	<0.040
Cis-1,2-Dichloroethylene	2.5	<0.020	<0.020	<0.040	<0.040
Trans-1,2-Dichloroethylene	0.75	<0.050	<0.050	<0.040	<0.040
1,2-Dichloropropane	0.085	<0.030	<0.030	<0.040	<0.040
Ethylbenzene	1.6	<0.050	<0.050	<0.010	<0.010
Ethylene Dibromide	0.05	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	44	<0.50	<0.50	<0.40	<0.40
Methylene Chloride	0.96	<0.050	<0.050	<0.049	<0.049
Methyl Isobutyl Ketone	4.3	<0.050	<0.050	<0.40	<0.40
Methyl-t-Butyl Ether	1.4	<0.050	<0.050	<0.040	<0.040
Styrene	2.2	<0.050	<0.050	<0.040	<0.040
1,1,1,2-Tetrachloroethane	0.05	<0.040	<0.040	<0.040	<0.040
1,1,2,2-Tetrachloroethane	0.05	<0.050	<0.050	<0.040	<0.040
Toluene	6	<0.050	<0.050	<0.020	<0.020
Tetrachloroethylene	2.3	<0.050	<0.050	<0.040	<0.040
1,1,1-Trichloroethane	3.4	<0.050	<0.050	<0.040	<0.040
1,1,2-Trichloroethane	0.05	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	0.52	<0.030	<0.030	<0.010	<0.010
Vinyl Chloride	0.022	<0.020	<0.020	<0.019	<0.019
Total Xylenes	25	<0.050	<0.050	<0.020	<0.020
Dichlorodifluoromethane	25	<0.050	<0.050	<0.040	<0.040
Hexane(n)	34	<0.050	<0.050	<0.040	<0.040
Trichlorofluoromethane	5.8	<0.050	<0.050	<0.040	<0.040
1,3-Dichloropropene (cis + trans)	0.081	<0.040	<0.040	<0.050	<0.050

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 4: Summary of PAHs in Soil

Parameter	MECP Table 2 SCS	BH1 SS2	BH2 SS2	BH4 SS2	DUP4 (BH4 SS2)	BH5 SS1	BH6 SS2	BH6 SS5	BH7 SS3	BH8 SS1	MW24-1 SS4	MW24-1 SS5
Date of Collection		25/Mar/21	23/Mar/21	26/Mar/21	26/Mar/21	24/Mar/21	25/Mar/21	25/Mar/21	31/Mar/21	31/Mar/21	22/Nov/24	22/Nov/24
Date Reported		6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	6/Apr/21	4/Dec/24	4/Dec/24
Sampling Depth (mbgs)		0.00 - 0.6	0.8 - 1.2	0.8 - 1.2	0.8 - 1.2	0.00 - 0.6	0.8 - 1.2	3.1-3.5	1.5 - 2.0	0.00 - 0.6	2.29 - 2.90	3.05 - 3.66
Analytical Report Reference No.		21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	21H727643	R8430639	R8430640
Acenaphthene	29	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Acenaphthylene	0.17	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Anthracene	0.74	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Benzo(a)anthracene	0.63	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Benzo(a)pyrene	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Benzo(b/j)fluoranthene	0.78	<0.05	<0.05	<0.05	0.12	<0.05	0.07	<0.05	<0.05	<0.05	<0.0050	<0.0050
Benzo(ghi)perylene	7.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Benzo(k)fluoranthene	0.78	<0.05	<0.05	<0.05	0.12	<0.05	0.07	<0.05	<0.05	<0.05	<0.0050	<0.0050
Chrysene	7.8	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Dibenzo(a,h)anthracene	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Fluoranthene	0.69	<0.05	<0.05	<0.05	0.09	<0.05	0.09	<0.05	<0.05	<0.05	<0.0050	<0.0050
Fluorene	69	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Indeno(1,2,3-cd)pyrene	0.48	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0050	<0.0050
Naphthalene	0.75	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050	<0.0050
Phenanthrene	7.8	<0.050	<0.050	<0.050	0.07	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050	<0.0050
Pyrene	78	<0.050	<0.050	<0.050	0.08	<0.050	0.07	<0.050	<0.050	<0.050	<0.0050	<0.0050
Methylnaphthalene, 2-(1-)	3.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0071	<0.0071

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 4: Summary of PAHs in Soil

Parameter	MECP Table 2 SCS	BH24-2 SS2	BH24-3 SS2	BH24-4 SS3
Date of Collection		22/Nov/24	22/Nov/24	22/Nov/24
Date Reported		4/Dec/24	4/Dec/24	4/Dec/24
Sampling Depth (mbgs)		0.76 - 1.37	0.76 - 1.37	1.52 - 2.13
Analytical Report Reference No.		R8430639	R8430639	R8430639
Acenaphthene	29	<0.0050	<0.0050	<0.0050
Acenaphthylene	0.17	<0.0050	<0.0050	<0.0050
Anthracene	0.74	<0.0050	<0.0050	<0.0050
Benzo(a)anthracene	0.63	<0.0050	0.0052	<0.0050
Benzo(a)pyrene	0.3	<0.0050	0.0068	<0.0050
Benzo(b/j)fluoranthene	0.78	<0.0050	0.01	0.015
Benzo(ghi)perylene	7.8	<0.0050	0.0052	0.021
Benzo(k)fluoranthene	0.78	<0.0050	<0.0050	<0.0050
Chrysene	7.8	<0.0050	0.0061	<0.0050
Dibenzo(a,h)anthracene	0.1	<0.0050	<0.0050	<0.0050
Fluoranthene	0.69	<0.0050	0.014	<0.0050
Fluorene	69	<0.0050	<0.0050	<0.0050
Indeno(1,2,3-cd)pyrene	0.48	<0.0050	<0.0050	0.017
Naphthalene	0.75	<0.0050	<0.0050	<0.0050
Phenanthrene	7.8	<0.0050	0.014	<0.0050
Pyrene	78	<0.0050	0.013	<0.0050
Methylnaphthalene, 2-(1-)	3.4	<0.0071	<0.0071	<0.0071

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 5: Summary of Metals and ORPs in Groundwater

Parameter	MECP Table 2 SCS	BH1	DUP1 (BH1)	BH2	BH3	BH4	BH5	BH6
Date of Collection		6/May/21	6/May/21	6/May/21	19/May/21	6/May/21	19/May/21	6/May/21
Date Reported		12/May/21	12/May/21	12/May/21	26/May/21	12/May/21	26/May/21	12/May/21
Screen Interval (mbgs)		6.70 - 9.80	6.70 - 9.80	6.70 - 9.80	6.70 - 9.80	3.00 - 6.10	3.20 - 6.30	3.20 - 6.30
Analytical Report Reference No.		21H743195	21H743195	21H743195	21H743195	21H743195	21H743195	21H743195
Antimony	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8
Arsenic	25	<1.0	<1.0	2.7	1.4	<1.0	2	2.3
Barium	1000	121	125	114	64	36.5	66.6	52.3
Beryllium	4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Boron	5000	142	143	477	825	58.7	622	397
Cadmium	2.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chromium	50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chromium VI	25	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Cobalt	3.8	0.61	0.62	<0.50	<0.50	<0.50	<0.50	<0.50
Copper	87	5.9	<1.0	7	<1.0	4	7.1	7.3
Lead	10	<0.50	<0.50	0.63	<0.50	<0.50	0.84	0.62
Mercury	1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Molybdenum	70	3.03	2.66	35.6	46.4	<0.50	26.6	42.9
Nickel	100	10.6	5.6	<3.0	<3.0	<3.0	<3.0	<3.0
Sodium	490000	**622000**	**616000**	461000	160000	243000	263000	370000
Selenium	10	2.4	<1.0	2	6.98	<1.0	9.27	<1.0
Silver	1.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	2	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Vanadium	6.2	<0.40	<0.40	1.29	0.91	<0.40	0.86	1.57
Zinc	1100	5.8	<5.0	9	<5.0	<5.0	9.4	12.2
Cyanide, Free	66	<2	<2	<2	<2	<2	<2	<2
Chloride	790000	**1440000**	**1440000**	**1200000**	372000	318000	**810000**	555000
Uranium	20	2.12	2.36	2.34	4.74	0.76	4.7	14.2

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 6: Summary of PHCs in Groundwater

Parameter	MECP Table 2 SCS	BH1	DUP1 (BH1)	BH2	BH3	BH4	BH6
Date of Collection		6/May/21	6/May/21	6/May/21	19/May/21	6/May/21	6/May/21
Date Reported		12/May/21	12/May/21	12/May/21	26/May/21	12/May/21	12/May/21
Screen Interval (mbgs)		6.70 - 9.80	6.70 - 9.80	6.70 - 9.80	6.70 - 9.80	3.00 - 6.10	3.20 - 6.30
Analytical Report Reference No.		21H743195	21H743195	21H743195	21H743195	21H743195	21H743195
Benzene	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	2.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Toluene	24	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes	300	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
F1 (C6-C10)-BTEX	750	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	150	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	500	<100	<100	<100	<100	<100	<100
F4 (C34-C50)	500	<100	<100	<100	<100	<100	<100

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 7: Summary of VOCs in Groundwater

Parameter	MECP Table 2 SCS	BH1	DUP1 (BH1)	BH2	BH3	BH4	BH6	Trip Blank	Trip Blank
Date of Collection		6/May/21	6/May/21	6/May/21	19/May/21	6/May/21	6/May/21	6/May/21	19/May/21
Date Reported		12/May/21	12/May/21	12/May/21	26/May/21	12/May/21	12/May/21	12/May/21	26/May/21
Screen Interval (mbgs)		6.70 - 9.80	6.70 - 9.80	6.70 - 9.80	6.70 - 9.80	3.00 - 6.10	3.20 - 6.30	-	-
Analytical Report Reference No.		21H743195	21H743195	21H743195	21H743195	21H743195	21H743195	21H743195	21H743195
Acetone	2700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	16	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bromomethane	0.89	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	30	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chloroform	22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	59	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1-Dichloroethane	5	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-Dichloroethane	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethylene	14	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Cis-1,2-Dichloroethylene	17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trans-1,2-Dichloroethylene	17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide	0.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Methyl Ethyl Ketone	1800	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Isobutyl Ketone	640	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-t-Butyl Ether	15	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Styrene	5.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,1,2-Tetrachloroethane	1.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	200	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,1,2-Trichloroethane	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Chloride	1.7	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Dichlorodifluoromethane	590	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane (n)	520	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	150	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
1,3- Dichloropropene (cis+trans)	0.5	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 8: Summary of PAHs in Groundwater

Parameter	MECP Table 2 SCS	BH1	DUP1 (BH1)	BH2	BH3	BH4	BH5	BH6
Date of Collection		6/May/21	6/May/21	6/May/21	19/May/21	6/May/21	19/May/21	6/May/21
Date Reported		12/May/21	12/May/21	12/May/21	26/May/21	12/May/21	26/May/21	12/May/21
Screen Interval (mbgs)		6.70 - 9.80	6.70 - 9.80	6.70 - 9.80	6.70 - 9.80	3.00 - 6.10	3.20 - 6.30	3.20 - 6.30
Analytical Report Reference No.		21H743195	21H743195	21H743195	21H743195	21H743195	21H743195	21H743195
Acenaphthene	4.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Anthracene	2.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(a)anthracene	1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(a)pyrene	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b/j)fluoranthene	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(ghi)perylene	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(k)fluoranthene	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo(a,h)anthracene	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Fluoranthene	0.41	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	120	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Indeno(1,2,3-cd)pyrene	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Naphthalene	11	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	4.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methylnaphthalene, 2-(1-)	3.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

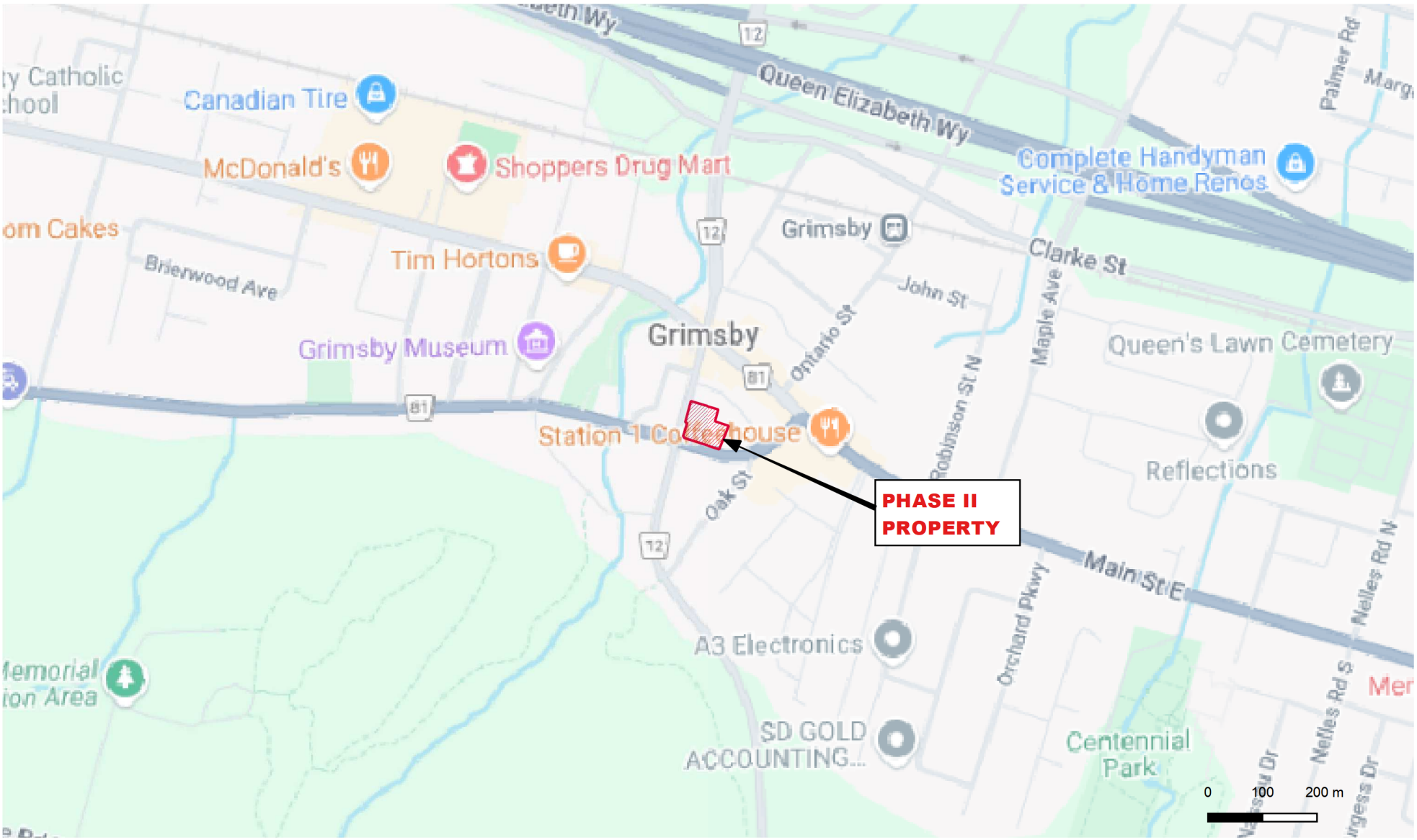
For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Notes for Soil and Groundwater Summary Tables

Bold	For soil and groundwater analytical results, concentration exceeds the applicable Standard.
Bold	For soil and groundwater analytical results, laboratory detection limits exceed the applicable Standard.
Bold	Parameter deemed not exceeded under Section 49.1 of O. Reg. 407/19
masl	Meters above sea level
MECP Table 2 SCS	Full Depth Generic Site Condition Standards for Residential/ Parkland/ Institutional Property Use in a Non-Potable Groundwater Condition with Medium-Fine Textured Soils as contained in Table 2 of the "Soil, Ground Water and Sediment Standards for Use Under Part 2V.1 of the Environmental Protection Act", published by the MECP on April 15, 2011.
mbgs	Meters below ground surface
NM	Not Monitored
NA	Not Available
NI	Not Installed
PCBs	Polychlorinated Biphenyls
PAH	Polyaromatic Hydrocarbon
VOCs	Volatile Organic Compounds
ORPs	Other Regulated Parameters
PHC	Petroleum Hydrocarbon
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
THMs	Trihalomethanes
M&I	Metals & Inorganics
Units	Units for all soil analyses are in µg/g (ppm) unless otherwise indicated
Units	Units for all groundwater analyses are in µg/L (ppb) unless otherwise indicated
*	Inferred screen depth

Figures

C:\0Sharon\24-330-100 - 19 Elm Street and 13 Mountain Street, Grimsby\1-QGIS\Phase II\Figure 1 - Site Location Plan.qgs Dec-13 12:09



Legend

Site Boundary

DS CONSULTANTS LTD.
6221 Highway 7, UNIT 16
Vaughan, Ontario L4H 0K8
Telephone: (905) 264-9393
www.dsconsultants.ca

Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT
13 Mountain Street and 19, 21 and 23 Elm Street, Grimsby, ON

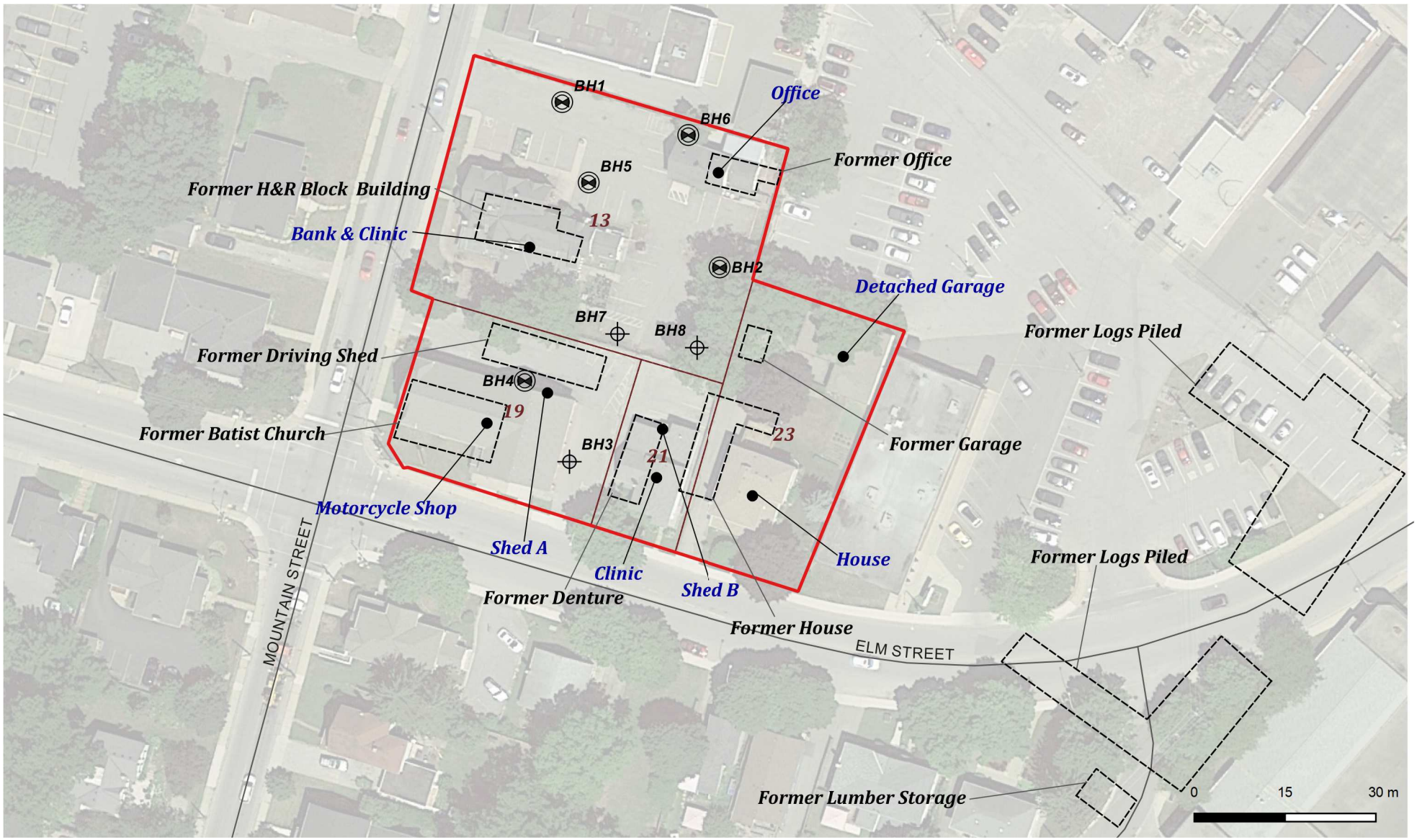
Title: **SITE LOCATION PLAN**

Client: VALENTINE COLEMAN 1 INC. & VALENTINE COLEMAN 2 INC

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	T.W	S.Y	December 2024
Rev: 0	Scale: As Shown	Project No.: 24-330-100	Figure No.: 1

Image/Map Source: *Google Street Map*

C:\0Sharon\24-330-100 - 19 Elm Street and 13 Mountain Street, Grimsby\1-QGIS\Phase II\Figure 2 - Phase II Property Site Plan.qgs Dec-13 12:17



Legend

- Site Boundary
- Borehole by Other
- Monitoring Well by Other

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6221 Highway 7, UNIT 16
Vaughan, Ontario L4H 0K8
Telephone: (905) 264-9393
www.dsconsultants.ca

Client: VALENTINE COLEMAN 1 INC. & VALENTINE COLEMAN 2 INC

Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT
13 Mountain Street and 19, 21 and 23 Elm Street, Grimsby, ON

Title: **PHASE II PROPERTY SITE PLAN**

N

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	T.W	S.Y	December 2024
Rev: 0	Scale: As Shown	Project No.: 24-330-100	Figure No.: 2

Image/Map Source: *Google Satellite Image*

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH1 SS1	0.0-0.6	✓	✓				
BH1 SS2	0.8-1.2			✓	✓	✓	✓
BH1 SS6	4.6-5.0	✓	✓	✓	✓	✓	

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH6 SS2	0.8-1.2	✓	✓	✓	✓	✓	✓
BH6 SS5	3.1-3.5	✓	✓				✓
BH6 SS6	4.6-5.0			✓	✓	✓	

Sample ID	Screen Interval (mbgs)	Date of collection	Groundwater Analysis					
			Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH1	6.70-9.80	06-05-21	✓	✓	✓	✓	✓	✓
DUP1			✓	✓	✓	✓	✓	✓

Sample ID	Screen Interval (mbgs)	Date of collection	Groundwater Analysis					
			Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH6	3.20-6.30	06-05-21	✓	✓	✓	✓	✓	✓

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH5 SS1	0.00-0.6						✓
BH5 SS2	0.8-1.2	✓	✓				
BH5 SS6	4.6-5.0			✓	✓	✓	

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH2 SS2	0.8-1.2	✓	✓				
BH2 SS3	1.5-2.0			✓	✓	✓	✓
BH2 SS6	4.6-5.0			✓	✓	✓	

Sample ID	Screen Interval (mbgs)	Date of collection	Groundwater Analysis					
			Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH5	3.20-6.30	19-05-21	✓	✓	✓			

Sample ID	Screen Interval (mbgs)	Date of collection	Groundwater Analysis					
			Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH2	6.70-9.80	06-05-21	✓	✓	✓	✓	✓	✓

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
MW24-1 SS2	0.76-1.37			✓	✓	✓	
MW24-1 SS4	2.29-2.90	✓	✓				✓
MW24-1 SS5	3.05-3.66	✓	✓				✓
MW24-1 SS9	6.10-6.71			✓	✓	✓	

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH7 SS1	0.0-0.6	✓	✓				
BH7 SS3	1.5-2.0	✓					✓

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH8 SS1	0.0-0.6	✓	✓				✓
BH8 SS3	1.5-2.0	✓		✓	✓	✓	

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH4 SS2	0.8-1.2						✓
BH4 SS3	1.5-2.0	✓	✓				

Sample ID	Screen Interval (mbgs)	Date of collection	Groundwater Analysis					
			Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH4	3.00-6.10	06-05-21	✓	✓	✓	✓	✓	✓

Sample ID	Depth (mbgs)	Soil Analysis	
		Metals	ORPs
BH3 SS2	0.8-1.2	✓	✓

Sample ID	Screen Interval (mbgs)	Date of collection	Groundwater Analysis					
			Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH3	6.70-9.80	19-05-21	✓	✓	✓	✓	✓	✓

Sample ID	Depth (mbgs)	Soil Analysis				
		Metals	ORPs	PHCs	BTEX	PAHs
BH24-3 SS2	0.76-1.37	✓	✓			✓
BH24-3 SS3	1.52-2.13			✓	✓	
BH24-3 SS6	3.81-4.42	✓	✓			

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH24-4 SS2	0.76-1.37			✓	✓		
BH24-4 SS3	1.52-2.13	✓	✓				✓
BH24-4 SS6	3.81-4.42	✓	✓				

Sample ID	Depth (mbgs)	Soil Analysis					
		Metals	ORPs	PHCs	BTEX	VOCs	PAHs
BH24-2 SS2	0.76-1.37	✓	✓	✓	✓		✓

BH1 BH6 BH5 BH2 BH7 BH8 MW24-1 BH4 BH24-4 BH3 BH24-3 BH24-2

MOUNTAIN STREET

ELM STREET

0 20 40 m

Legend

- Site Boundary
- Borehole by DS 2024
- Monitoring Well by DS 2024
- Borehole by Terraprobe 2021
- Monitoring Well by Terraprobe 2021

✓	Sample was Analyzed for and Exceeded Parameter Group
✓	Sample was Analyzed for and Met Parameter Group
✓	Sample with elevated EC/SAR

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6221 Highway 7, UNIT 16
Vaughan, Ontario L4H 0K8
Telephone: (905) 264-9393
www.dsconsultants.ca

Project: PHASE II ENVIRONMENTAL SITE ASSESSMENT
13 Mountain Street and 19, 21 and 23 Elm Street, Grimsby, ON

Title: **SOIL AND GROUNDWATER CHARACTERIZATION**

Client: VALENTINE COLEMAN 1 INC. & VALENTINE COLEMAN 2 INC

Size:	Approved By:	Drawn By:	Date:
11x17	T.W	S.Y	December 2024
Rev. 0	Scale: As Shown	Project No.: 24-330-100	Figure No.: 3

Image/Map Source: *Google Satellite Image*

C:\0Sharon\24-330-100 - 19 Elm Street and 13 Mountain Street, Grimsby\1-QGIS\Phase II\Figure 3 - Soil and Groundwater Characterization.qgs Dec-16 14:48

Appendix A

PART 2 - SURVEY REPORT

- **DESCRIPTION**
  LOT 170 & PART OF LOT 168, CORPORATION PLAN No. 4
- **REGISTERED EASEMENTS AND/OR RIGHTS-OF-WAY**
  P.I.N. 46026-0002 IS TOGETHER WITH EASEMENT OVER PART 2, 30R-8656 AS IN INST No. RO718425
  P.I.N. 46026-1624 IS SUBJECT TO EASEMENT OVER PART 2, 30R-8656 AS IN INST. No. RO718425
- **BOUNDARY FEATURES**
  FENCE AND CURB ON NORTH BOUNDARY, FENCE ON EAST BOUNDARY, FENCE ON SOUTH-EAST BOUNDARY AND ROCK WALL ON SOUTH-WEST BOUNDARY AS SEEN ON PLAN
- **ZONING COMPLIANCE**
  NOT VERIFIED BY THIS SURVEY
- **ADDITIONAL REMARKS**
  PLAN PREPARED FOR VALENTINE COLEMAN 1 INC. & VALENTINE COLEMAN 2 INC.

SURVEYOR'S REAL PROPERTY REPORT
WITH TOPOGRAPHIC DETAILS

PART 1 - PLAN OF SURVEY OF

LOT 170 & PART OF LOT 168 CORPORATION PLAN No. 4

TOWN OF GRIMSBY
REGIONAL MUNICIPALITY OF NIAGARA

SCALE 1 : 150
0 1 2 3 4 6 8 metres

J.D. BARNES LIMITED

METRIC DISTANCES AND/OR COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NOTES

BEARINGS ARE UTM GRID, DERIVED FROM GNSS OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999759.

FOR BEARING COMPARISONS, A ROTATION OF 0°56'50" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1.

FOR BEARING COMPARISONS, A ROTATION OF 0°59'00" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P2, P3, P5.

FOR BEARING COMPARISONS, A ROTATION OF 1°56'50" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P4.

FOR BEARING COMPARISONS, A ROTATION OF 0°56'20" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P6.

FOR BEARING COMPARISONS, A ROTATION OF 0°47'50" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P7 & D1

ELEVATION NOTE

ELEVATIONS ARE OF GEODETIC ORIGIN (CGVD-1928:78), AND ARE DERIVED FROM GNSS OBSERVATIONS AND NATURAL RESOURCES CANADA'S GEOID MODEL HT2.0.

TOPOGRAPHIC LEGEND

CB	DENOTES CATCHBASIN
SICB	DENOTES SIDE INLET CATCHBASIN
SAN MH	DENOTES SANITARY MANHOLE
STM MH	DENOTES STORM MANHOLE
HT	DENOTES HYDRO TRANSFORMER
HW	DENOTES HANDWELL
GM	DENOTES GAS METER
GK	DENOTES GAS KEY
BOL	DENOTES BOLLARD
UP	DENOTES UTILITY POLE
LS	DENOTES LIGHT STANDARD
TL	DENOTES TRAFFIC SIGNAL
TBP	DENOTES TRAFFIC POLE BUTTON
PED	DENOTES TELEPHONE PEDESTAL
CPED	DENOTES CABLE TV PEDESTAL
GLC	DENOTES GROUND LEVEL CHAMBER
H	DENOTES FIRE HYDRANT
WMH	DENOTES WATER MANHOLE
WK	DENOTES WATER KEY
DIA	DENOTES DIAMETER
C/L	DENOTES CENTERLINE
OC	DENOTES OVERHEAD CABLE
	DENOTES FENCE
	DENOTES CONIFEROUS TREE
	DENOTES DECIDUOUS TREE

LEGEND

■	DENOTES	SURVEY MONUMENT FOUND
□	DENOTES	SURVEY MONUMENT SET
SIB	DENOTES	STANDARD IRON BAR
SSIB	DENOTES	SHORT STANDARD IRON BAR
RIB	DENOTES	ROUND IRON BAR
IB	DENOTES	IRON BAR
IT	DENOTES	IRON TUBE
CC	DENOTES	CUT CROSS
CP	DENOTES	CONCRETE PIN AND WASHER
P1	DENOTES	PLAN OF SURVEY BY KERRY T. HOWE, O.L.S. DATED NOVEMBER 1, 1988 FILE 88-322
P2	DENOTES	PLAN 30R-8656
P3	DENOTES	PLAN 30R-384
P4	DENOTES	CORPORATION PLAN No. 4
P5	DENOTES	PLAN 30R-6477
P6	DENOTES	PLAN 30R-9397
P7	DENOTES	PLAN OF SURVEY BY D.G. URE, O.L.S. DATED MAY 26, 1952, FILE 118-42
D1	DENOTES	INSTRUMENT No. RO653697
MEAS	DENOTES	MEASURED
NI	DENOTES	NOT IDENTIFIABLE
OU	DENOTES	ORIGIN UNKNOWN
600	DENOTES	SIDNEY W. WOODS, O.L.S.
1257	DENOTES	R. LAROCQUE, O.L.S.
1495	DENOTES	P.D. REITSMA, O.L.S.
1497	DENOTES	J.P. NOUWENS, O.L.S.
	DENOTES	PROPERTY LINE

N=NORTH / S=SOUTH / E=EAST / W=WEST

ALL SET SSIB AND PB MONUMENTS WERE USED DUE TO LACK OF OVERBURDEN AND/OR PROXIMITY OF UNDERGROUND UTILITIES IN ACCORDANCE WITH SECTION 11 (4) OF O.REG. 525/91.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON FEBRUARY 18, 2021

Feb. 18, 2021
DATE

DASHA PAGE
ONTARIO LAND SURVEYOR

THIS PLAN IS NOT VALID UNLESS EMBOSSED BY A SURVEYOR'S SEAL

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
2142879
THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR In accordance with Regulation 1026, Section 29(3).

J.D.BARNES LIMITED
SURVEYING MAPPING GIS
LAND INFORMATION SPECIALISTS
4318 PORTAGE ROAD - UNIT 2, NIAGARA FALLS, ON L2E 6A4
T: (905) 358-3693 F: (905) 358-6224 www.jdbarnes.com

DRAWN BY:	CHECKED BY:	REFERENCE NO.:
TW/MH	AH	20-16-364-00

FILE: G:\2020\20-16-364\00\Drawing\20-16-364-SRPR TOPO.dgn

PLOTTED: 2/19/2021

Appendix B

DS CONSULTANTS LTD.
Geotechnical ◆ Environmental ◆ Materials ◆ Hydrogeology

LOG OF BOREHOLE MW24-1

PROJECT:
CLIENT: Valentine Coleman 1 Inc. and Valentine Coleman 2 Inc.
PROJECT LOCATION: 21 and 23 Elm Street, Grimsby, Ontario
DATUM: Geodetic
BH LOCATION: N 4783217.26 E 616832.562

DRILLING DATA
Method: Hollow Stem Auger
Diameter: 150 mm
Date: Nov/22/2024 to Nov/22/2024

REF. NO.: 24-330-100
ENCL NO.:

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
93.7								
93.7 / 0.0	**ASPHALT:** granular base (150mm)							
	FILL: clayey silt, some gravel, brown, dry to moist		1	SS			93	
			2	SS				PHCs, BTEXs & VOCs
			3	SS			92	
	...red shale fragements		4	SS				Metals and ORPs, PAHs
90.7 / 3.1	**CLAYEY SILT WITH GRAVEL:** trace tree root, brown, moist		5	SS			91	
			6	SS			90	
			7	SS			89	
			8	SS			88	
			9	SS				PHCs, BTEXs & VOCs
			10	SS			87	
			11	SS			86	
85.4 / 8.4	**END OF BOREHOLE:**							

Soil Head Space Vapors: PID (ppm) 10 20 30 40; CGD (ppm) 10 20 30 40

PLASTIC LIMIT w_P — NATURAL MOISTURE CONTENT w — LIQUID LIMIT w_L
WATER CONTENT (%) 10 20 30

POCKET PEN. (Cu) (kPa)

NATURAL UNIT WT (kN/m³)

Water Level Readings
November 26, 2024 Dry
Decemeber 6, 2024 Dry

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: +3, ×3: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

DS ENVIRO 0-50 PPM-2021 24-330-100.GPJ DS.GDT 12/16/24

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LOG OF BOREHOLE BH24-2

PROJECT:
CLIENT: Valentine Coleman 1 Inc. and Valentine Coleman 2 Inc.
PROJECT LOCATION: 21 and 23 Elm Street, Grimsby, Ontario
DATUM: Geodetic
BH LOCATION: N 4783182.932 E 616818.19

DRILLING DATA
Method: Hollow Stem Auger
Diameter: 150 mm
Date: Nov/22/2024 to Nov/22/2024

REF. NO.: 24-330-100
ENCL NO.:

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: "N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors: PID (ppm)	Soil Head Space Vapors: CGD (ppm)	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT; WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
94.7													
94.6 0.0	**ASPHALT: granular base (150mm)**												
	FILL: clayey silt, red shale fragements, brown, moist		1	SS									
1			2	SS			94						PAHs PHCs, BTEXs
	...trace brick pieces, trace gravel, wood pieces		3	SS			93						Metals and ORPs
2			4	SS			92						
3 91.6													
3.1	**FILL**: sandy silt, yellow to brown, moist		5	SS			91						
90.9													
4 3.8	**CLAYEY SILT WITH GRAVEL** grey, wet		6	SS									
90.1													
4.6	**END OF BOREHOLE:**												

DS ENVIRO 0-50 PPM-2021 24-330-100.GPJ DS.GDT 12/16/24

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES
+ 3, × 3: Numbers refer to Sensitivity
○ ε=3% Strain at Failure

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LOG OF BOREHOLE BH24-3

PROJECT:
CLIENT: Valentine Coleman 1 Inc. and Valentine Coleman 2 Inc.
PROJECT LOCATION: 21 and 23 Elm Street, Grimsby, Ontario
DATUM: Geodetic
BH LOCATION: N 4783186.933 E 616804.05

DRILLING DATA
Method: Hollow Stem Auger
Diameter: 150 mm
Date: Nov/22/2024 to Nov/22/2024

REF. NO.: 24-330-100
ENCL NO.:

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	TYPE	"N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	CGD (ppm) 10 20 30 40	PLASTIC LIMIT W_P / NATURAL MOISTURE CONTENT W / LIQUID LIMIT W_L WATER CONTENT (%) 10 20 30	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
94.9													
94.8 0.1	**ASPHALT:** granular base (150 mm)												
	FILL: sand and gravel, some clay, brown, moist		1	SS									
1			2	SS			94						Metals and ORPs, PAHs PHCs, BTEXs
2			3	SS			93						
	...limestone fragments, some sand, trace silt, moist		4	SS									
3	...sandy silt, yellow to brown, moist		5	SS			92						
91.1													
3.8 4	**CLAYEY SILT WITH GRAVEL:** brown, moist		6	SS			91						Metals and ORPs
90.3													
4.6	**END OF BOREHOLE:**												

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES
+ 3, × 3: Numbers refer to Sensitivity
○ ε=3% Strain at Failure

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LOG OF BOREHOLE BH24-4

PROJECT:
CLIENT: Valentine Coleman 1 Inc. and Valentine Coleman 2 Inc.
PROJECT LOCATION: 21 and 23 Elm Street, Grimsby, Ontario
DATUM: Geodetic
BH LOCATION: N 4783209 E 616809.947

DRILLING DATA
Method: Hollow Stem Auger
Diameter: 150 mm
Date: Nov/22/2024 to Nov/22/2024

REF. NO.: 24-330-100
ENCL NO.:

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors CGD (ppm) 10 20 30 40	PLASTIC LIMIT w_P / NATURAL MOISTURE CONTENT w / LIQUID LIMIT w_L — WATER CONTENT (%) 10 20 30	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
94.7													
94.7 / 0.0	**ASPHALT:** granular base (150mm)												
	FILL: silt clay, some sand trace wood pieces, black to brown, moist		1	SS									
			2	SS			94						PHCs, BTEXs
1	...brick pieces, wood pieces, red shale fragments		3	SS			93						Metals and ORPs, PAHs
2			4	SS			92						
3	...some sand, some gravel		5	SS			91						
90.9													
3.8 / 4	**CLAYEY SILT WITH GRAVEL:** grey, moist to wet		6	SS									Metals and ORPs
90.1													
4.6	**END OF BOREHOLE:**												

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES
+ 3, × 3: Numbers refer to Sensitivity
○ ε=3% Strain at Failure

LOG OF BOREHOLE 1

Terraprobe

Project No. : 7-18-0051-42	Client : Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc.	Originated by : JM
Date started : March 25, 2021	Project : 13 Mountain Street and 19 Elm Street	Compiled by : TW
Sheet No. : 1 of 1	Location : Grimsby, Ontario	Checked by : TW

Position : E: 616797, N: 4783259 (UTM 17T) Elevation Datum : Geodetic

Rig type : Mini Mole, track-mounted Drilling Method : Solid stem augers

Depth (m)	Elev Depth (m)	Description	Graphic Log	Number	Type	SPT 'N' Value
0	92.8	**GROUND SURFACE**				
		40mm **ASPHALTIC CONCRETE**		1	SS	25
		FILL, granular base, (150mm)				
1		**FILL**, sand and gravel, with silt, clay, compact to very dense, brown		2	SS	36
2	90.5			3	SS	53
	2.3	**FILL**, clayey silt, trace to some gravel, sand, very dense, brown		4	SS	52
3	89.8					
	3.0	**CLAYEY SILT with GRAVEL**, some sand, very stiff to hard, grey (GLACIAL TILL)		5	SS	28
4						
5				6	SS	25
6						
				7	SS	37
7						
		...trace red shale fragments below 7.62m depth		8	SS	47
8						
9				9	SS	64
10						
				10	SS	54
11						
12	80.2			11	SS	59
	12.6	**END OF BOREHOLE**				

Elevation Scale (m): 92, 91, 90, 89, 88, 87, 86, 85, 84, 83, 82, 81

Penetration Test Values (Blows / 0.3m): Dynamic Cone 10 20 30 40

Undrained Shear Strength (kPa): Unconfined, Pocket Penetrometer, Field Vane, Lab Vane; 40 80 120 160

Moisture / Plasticity: Plastic Limit (PL), Natural Water Content (MC), Liquid Limit (LL); 10 20 30

Headspace Vapour (ppm): PID: 0, PID: 15, PID: 0, 40 PID: 0, PID: 0, PID: 0, PID: 0, PID: 0, PID: 0

Instrument Details: Unstabilized Water Level

Lab Data and Comments

GRAIN SIZE DISTRIBUTION (%) (MIT) GR SA SI CL

SS1 Analysis: M&I

SS2 Analysis: BTEX, PAH, VOC, PHC

25 12 37 26

SS6 Analysis: M&I, BTEX, VOC, PHC

Unstabilized water level measured at 4.9 m below ground surface; borehole was open upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS

Date	Water Depth (m)	Elevation (m)
Mar 31, 2021	1.6	91.2
Apr 19, 2021	1.6	91.2
Apr 27, 2021	1.6	91.2
May 3, 2021	1.6	91.2
May 6, 2021	1.6	91.2
May 19, 2021	1.8	91.0

file: 7-18-0051-42 - elm st.gpj

LOG OF BOREHOLE 2

Terraprobe

Project No. : 7-18-0051-42	Client : Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc.	Originated by : JM
Date started : March 23, 2021	Project : 13 Mountain Street and 19 Elm Street	Compiled by : TW
Sheet No. : 1 of 1	Location : Grimsby, Ontario	Checked by : TW

Position : E: 616821, N: 4783229 (UTM 17T) Elevation Datum : Geodetic

Rig type : Mini Mole, track-mounted Drilling Method : Solid stem augers

Depth (m)	Elev Depth (m)	Description	Graphic Log	Number	Type	SPT 'N' Value	Elevation (m)	Penetration Test Values (Blows / 0.3m) / Undrained Shear Strength (kPa)	Moisture / Plasticity (PL, MC, LL)	Headspace Vapour (ppm)	Instrument Details	Lab Data and Comments
0	93.1	**GROUND SURFACE**					93					
		55mm **ASPHALTIC CONCRETE**		1	SS	26				PID: 0		
		FILL, sand and gravel, some silt, clay, compact, brown		2	SS	20	92			PID: 0		SS2 Analysis: M&I, PAH
2	90.8			3	SS	17				PID: 0		SS3 Analysis: BTEX, VOC, PHC
	2.3	**CLAYEY SILT with GRAVEL**, some sand, very stiff to hard, brown to grey (GLACIAL TILL) ...becoming grey at 2.74m depth		4	SS	22	91			PID: 0		
3				5	SS	22	90			PID: 0		
4							89					
5				6	SS	20	88			PID: 5		SS6 Analysis: BTEX, VOC, PHC
6				7	SS	50 / 150mm	87			PID: 5		
7							86					
8				8	SS	27	85			PID: 5		23 14 39 24
9				9	SS	38	84			PID: 0		
10				10	SS	57	83			PID: 0		
11				11	SS	59	82			PID: 0		
12				12	SS	50	81			PID: 0		
13				13	SS	57	80			PID: 0		
14	77.4						79			PID: 0		
15	15.7						78			PID: 0		

END OF BOREHOLE

Borehole was dry and open upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS

Date	Water Depth (m)	Elevation (m)
Mar 31, 2021	dry	n/a
Apr 19, 2021	8.6	84.5
Apr 27, 2021	8.0	85.1
May 3, 2021	7.3	85.8
May 6, 2021	8.7	84.4
May 19, 2021	7.9	85.2

file: 7-18-0051-42 - elm st.gpj

LOG OF BOREHOLE 3

Terraprobe

Project No. : 7-18-0051-42	Client : Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc.	Originated by : JM
Date started : March 26, 2021	Project : 13 Mountain Street and 19 Elm Street	Compiled by : TW
Sheet No. : 1 of 1	Location : Grimsby, Ontario	Checked by : TW

Position : E: 616798, N: 4783200 (UTM 17T) Elevation Datum : Geodetic

Rig type : Mini Mole, track-mounted Drilling Method : Solid stem augers

Depth Scale (m)	Elev Depth (m)	Description	Graphic Log	Number	Type	SPT 'N' Value	Elevation Scale (m)	Penetration Test Values (Blows / 0.3m) / Undrained Shear Strength (kPa)	Moisture / Plasticity	Headspace Vapour (ppm)	Instrument Details	Lab Data and Comments
0	95.0	**GROUND SURFACE**					95					
		50mm **ASPHALTIC CONCRETE**		1	SS	18				PID: 0		
		FILL, granular base, (50mm)										
1		**FILL**, sand and gravel, trace to some silt, clay, trace brick fragments, compact, brown		2	SS	12	94			PID: 0		SS2 Analysis: M&I
				3	SS	11				PID: 0		
2							93					
				4	SS	38				PID: 0		
3							92					
				5	SS	11				PID: 0		
	91.0											
4	4.0	**CLAYEY SILT with GRAVEL**, some sand, very stiff to hard, grey (GLACIAL TILL)		6	SS	24	91			PID: 0		
				7	SS	30				PID: 5		
5							90					
				8	SS	30				PID: 0		
6							89					
				9	SS	44				PID: 0		15 16 42 27
7							88					
				10	SS	42				PID: 0		
8		...trace shale fragments below 9.14m depth					87					
				11	SS	61						
9							86					
				12	SS	62						
10							85					
11							84					
12	82.4						83					
	12.6	**END OF BOREHOLE**										

Penetration Test Values (Blows / 0.3m): Dynamic Cone (10, 20, 30, 40)

Undrained Shear Strength (kPa): Unconfined, Pocket Penetrometer, Field Vane, Lab Vane (40, 80, 120, 160)

Moisture / Plasticity: Plastic Limit (PL), Natural Water Content (MC), Liquid Limit (LL) (10, 20, 30)

Unstabilized Water Level

Lab Data and Comments: GRAIN SIZE DISTRIBUTION (%) (MIT) GR SA SI CL

Borehole was dry and open upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS

Date	Water Depth (m)	Elevation (m)
Mar 31, 2021	dry	n/a
Apr 19, 2021	9.2	85.8
Apr 27, 2021	8.6	86.4
May 3, 2021	8.3	86.7
May 6, 2021	9.2	85.8
May 19, 2021	8.3	86.7

file: 7-18-0051-42 - elm st.gpj

LOG OF BOREHOLE 4

Terraprobe

Project No. : 7-18-0051-42	Client : Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc.	Originated by : JM
Date started : March 26, 2021	Project : 13 Mountain Street and 19 Elm Street	Compiled by : TW
Sheet No. : 1 of 1	Location : Grimsby, Ontario	Checked by : TW

Position : E: 616792, N: 4783210 (UTM 17T) Elevation Datum : Geodetic

Rig type : Mini Mole, track-mounted Drilling Method : Solid stem augers

Depth Scale (m)	Elev Depth (m)	Description	Graphic Log	Number	Type	SPT 'N' Value
0	94.7	**GROUND SURFACE**				
	94.3	40mm **ASPHALTIC CONCRETE**		1	SS	15
	0.4	**FILL**, granular base, (360mm)				
1		**FILL**, sand and gravel, trace to some silt, clay, trace brick fragments, compact to dense, brown		2	SS	27
2				3	SS	19
				4	SS	21
3				5	SS	37
	90.9					
4	3.8	**CLAYEY SILT with GRAVEL**, some sand, very stiff to hard, grey (GLACIAL TILL)		6	SS	34
				7	SS	34
5						
6				8	SS	28
7						
8				9	SS	40
9						
				10	SS	35
10						
11				11	SS	72 / 200mm
12	82.1					
	12.6			12	SS	55

Elevation Scale (m): 94, 93, 92, 91, 90, 89, 88, 87, 86, 85, 84, 83

Penetration Test Values (Blows / 0.3m): Dynamic Cone 10 20 30 40

Undrained Shear Strength (kPa): Unconfined, Pocket Penetrometer, Field Vane, Lab Vane 40 80 120 160

Moisture / Plasticity: Plastic Limit (PL), Natural Water Content (MC), Liquid Limit (LL) 10 20 30

Headspace Vapour (ppm): PID: 0, PID: 0, PID: 0, PID: 0, PID: 0, PID: 0, PID: 0, PID: 5, PID: 0

Instrument Details

Unstabilized Water Level

Lab Data and Comments

GRAIN SIZE DISTRIBUTION (%) (MIT)

GR SA SI CL

SS2 Analysis: PAH

SS3 Analysis: M&I

16 14 43 27

END OF BOREHOLE

Borehole was dry and open upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS

Date	Water Depth (m)	Elevation (m)
Mar 31, 2021	3.1	91.6
Apr 19, 2021	3.2	91.5
Apr 27, 2021	3.2	91.5
May 3, 2021	3.2	91.5
May 6, 2021	3.2	91.5
May 19, 2021	3.3	91.4

file: 7-18-0051-42 - elm st.gpj

LOG OF BOREHOLE 5

Terraprobe

Project No. : 7-18-0051-42	Client : Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc.	Originated by : JM
Date started : March 24, 2021	Project : 13 Mountain Street and 19 Elm Street	Compiled by : TW
Sheet No. : 1 of 1	Location : Grimsby, Ontario	Checked by : TW

Position : E: 616804, N: 4783243 (UTM 17T) Elevation Datum : Geodetic

Rig type : Mini Mole, track-mounted Drilling Method : Solid stem augers

Elev Depth (m)	Description	Graphic Log	Number	Type	SPT 'N' Value
93.1	**GROUND SURFACE**				
	25mm **ASPHALTIC CONCRETE**		1	SS	27
	FILL, granular base, (225mm)				
	FILL, clayey silt, some sand, gravel, compact to very dense, brown		2	SS	17
			3	SS	61
90.8					
2.3	**CLAYEY SILT with GRAVEL**, some sand, hard, brown (GLACIAL TILL) ...becoming grey below 2.44m depth		4	SS	63
			5	SS	32
			6	SS	34
			7	SS	48
			8	SS	33
	...red shale fragments below 9.14m depth		9	SS	60
			10	SS	44
	...straight-drilled beyond 12.19m depth		11	SS	51
74.8					
74.7			12	SS	50 / 75mm
18.4	**WEATHERED SHALE**, hard, reddish brown (QUEENSTON FORMATION)				
	END OF BOREHOLE				

Penetration Test Values (Blows / 0.3m): Dynamic Cone (10, 20, 30, 40)

Undrained Shear Strength (kPa): Unconfined, Pocket Penetrometer, Field Vane, Lab Vane (40, 80, 120, 160)

Moisture / Plasticity: Plastic Limit (PL), Natural Water Content (MC), Liquid Limit (LL) (10, 20, 30)

Headspace Vapour (ppm): PID: 10; PID: 10; PID: 10; PID: 25; PID: 15; PID: 30; PID: 25; PID: 10; PID: 5; PID: 5; PID: 5

Instrument Details: Unstabilized Water Level

Lab Data and Comments: GRAIN SIZE DISTRIBUTION (%) (MIT) GR SA SI CL

SS1 Analysis: PAH

SS2 Analysis: M&I

SS6 Analysis: BTEX, VOC, PHC

Borehole was dry and open upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS

Date	Water Depth (m)	Elevation (m)
Mar 31, 2021	dry	n/a
Apr 19, 2021	dry	n/a
Apr 27, 2021	6.2	86.9
May 3, 2021	6.0	87.1
May 6, 2021	5.9	87.2
May 19, 2021	5.5	87.6

file: 7-18-0051-42 - elm st.gpj

LOG OF BOREHOLE 6

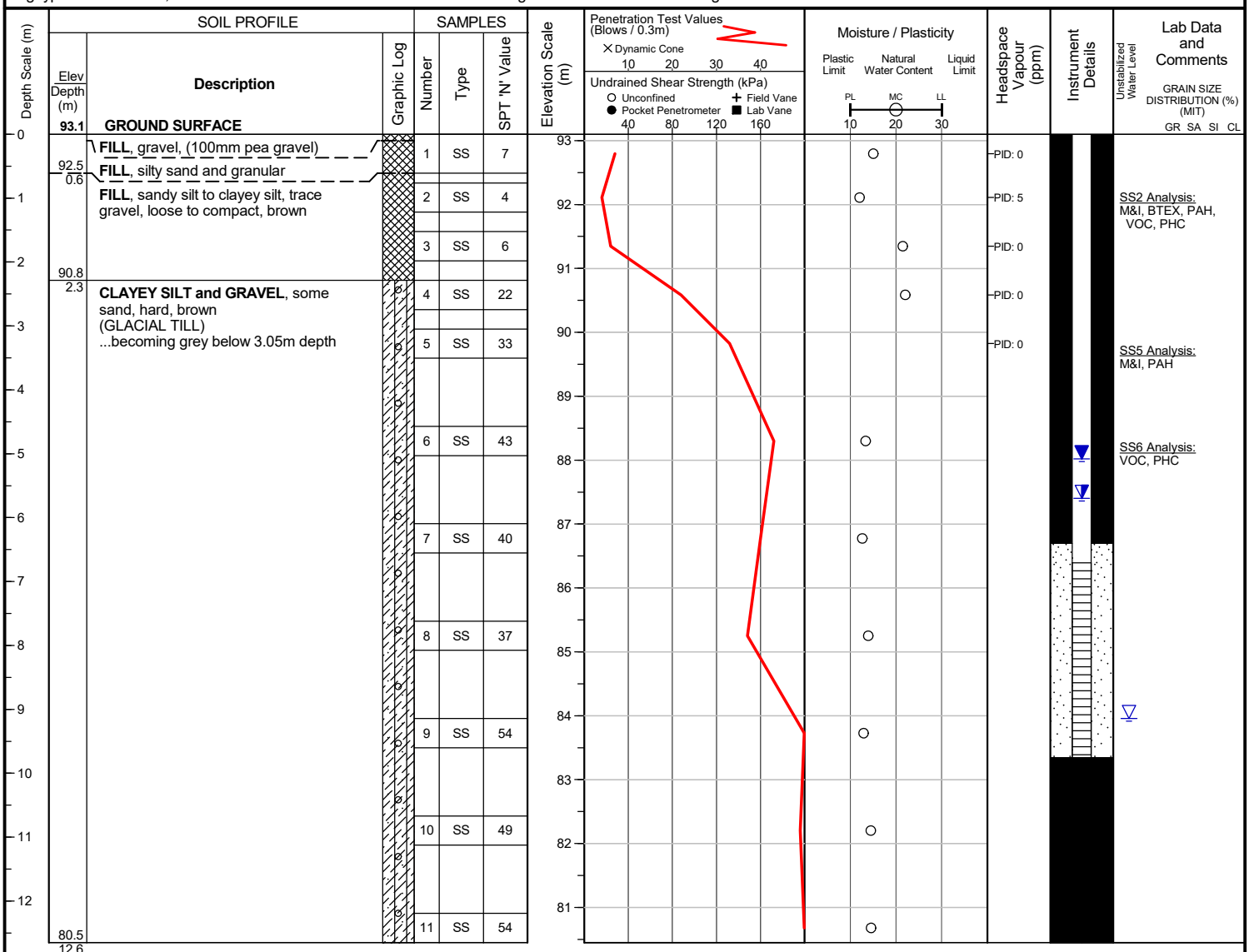
Terraprobe

Project No. : 7-18-0051-42	Client : Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc.	Originated by : JM
Date started : March 25, 2021	Project : 13 Mountain Street and 19 Elm Street	Compiled by : TW
Sheet No. : 1 of 1	Location : Grimsby, Ontario	Checked by : TW

Position : E: 616819, N: 4783255 (UTM 17T) Elevation Datum : Geodetic

Rig type : Mini Mole, track-mounted Drilling Method : Solid stem augers

Elev Depth (m)	Description	Graphic Log	Number	Type	SPT 'N' Value
93.1	**GROUND SURFACE**				
92.5 / 0.6	**FILL**, gravel, (100mm pea gravel)		1	SS	7
	FILL, silty sand and granular				
	FILL, sandy silt to clayey silt, trace gravel, loose to compact, brown		2	SS	4
			3	SS	6
90.8 / 2.3	**CLAYEY SILT and GRAVEL**, some sand, hard, brown (GLACIAL TILL) ...becoming grey below 3.05m depth		4	SS	22
			5	SS	33
			6	SS	43
			7	SS	40
			8	SS	37
			9	SS	54
			10	SS	49
80.5 / 12.6			11	SS	54



END OF BOREHOLE

Unstabilized water level measured at 9.1 m below ground surface; borehole was open upon completion of drilling.

50 mm dia. monitoring well installed.

WATER LEVEL READINGS

Date	Water Depth (m)	Elevation (m)
Mar 31, 2021	dry	n/a
Apr 19, 2021	5.7	87.4
Apr 27, 2021	5.4	87.7
May 3, 2021	5.2	87.9
May 6, 2021	5.1	88.0
May 19, 2021	5.1	88.0

file: 7-18-0051-42 - elm st.gpj

LOG OF BOREHOLE 7

Terraprobe

Project No. : 7-18-0051-42	Client : Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc.	Originated by : JM
Date started : March 31, 2021	Project : 13 Mountain Street and 19 Elm Street	Compiled by : TW
Sheet No. : 1 of 1	Location : Grimsby, Ontario	Checked by : TW

Position : E: 616806, N: 4783217 (UTM 17T) Elevation Datum : Geodetic

Rig type : Mini Mole, track-mounted Drilling Method : Solid stem augers

Depth Scale (m)	Elev Depth (m)	Description	Graphic Log	Number	Type	SPT 'N' Value	Elevation Scale (m)
	93.5	**GROUND SURFACE**					
0		50mm **ASPHALTIC CONCRETE**		1	SS	14	93
1		**FILL**, granular with sandy silt, trace to some clay, compact to dense, brown		2	SS	41	92
2	91.2			3	SS	18	
	2.3	**CLAYEY SILT and GRAVEL**, some sand, very stiff to hard, brown (GLACIAL TILL) ...becoming grey below 2.59m depth		4	SS	34	91
3				5	SS	23	90
4							
5				6	SS	32	89
6							88
				7	SS	31	87
7							
8		...trace shale fragments below 7.62m depth		8	SS	37	86
9							85
				9	SS	40	84
10							
11				10	SS	39	83
							82
12							
	80.9			11	SS	44	81
	12.6	**END OF BOREHOLE**					

Penetration Test Values (Blows / 0.3m): Dynamic Cone (10, 20, 30, 40)

Undrained Shear Strength (kPa): Unconfined, Pocket Penetrometer, Field Vane, Lab Vane (40, 80, 120, 160)

Moisture / Plasticity: Plastic Limit (PL), Natural Water Content (MC), Liquid Limit (LL) (10, 20, 30)

Headspace Vapour (ppm)

Instrument Details

Unstabilized Water Level

Lab Data and Comments

GRAIN SIZE DISTRIBUTION (%) (MIT) GR SA SI CL

SS1 Analysis: M&I

SS3 Analysis: M&I, PAH

Borehole was dry and open upon completion of drilling.

file: 7-18-0051-42 - elm st.gpj

LOG OF BOREHOLE 8

Terraprobe

Project No. : 7-18-0051-42	Client : Valentine Coleman 1 Inc. & Valentine Coleman 2 Inc.	Originated by : JM
Date started : March 31, 2021	Project : 13 Mountain Street and 19 Elm Street	Compiled by : TW
Sheet No. : 1 of 1	Location : Grimsby, Ontario	Checked by : TW

Position : E: 616817, N: 4783215 (UTM 17T) Elevation Datum : Geodetic

Rig type : Mini Mole, track-mounted Drilling Method : Solid stem augers

Depth Scale (m)	Elev Depth (m)	Description	Graphic Log	Sample Number	Sample Type	SPT 'N' Value	Elevation Scale (m)	Penetration Test Values (Blows / 0.3m) / Undrained Shear Strength (kPa)	Moisture / Plasticity (PL, MC, LL)	Headspace Vapour (ppm)	Instrument Details	Unstabilized Water Level	Lab Data and Comments
0	**93.5**	**GROUND SURFACE**											
		50mm **ASPHALTIC CONCRETE**											
		FILL, granular base, (150mm)											
		FILL, clayey silt, some gravel, trace sand, loose to compact, brown to dark brown		1	SS	11							SS1 Analysis: M&I, PAH
1				2	SS	23	93						
				3	SS	9	92						SS3 Analysis: M&I, BTEX, VOC, PHC
	91.5 2.0	**END OF BOREHOLE**											

Penetration Test Values (Blows / 0.3m): Dynamic Cone; 10 20 30 40

Undrained Shear Strength (kPa): Unconfined, Pocket Penetrometer, Field Vane, Lab Vane; 40 80 120 160

Moisture / Plasticity: Plastic Limit, Natural Water Content, Liquid Limit; PL MC LL; 10 20 30

Lab Data and Comments: GRAIN SIZE DISTRIBUTION (%) (MIT) GR SA SI CL

Borehole was dry and open upon completion of drilling.

file: 7-18-0051-42 - elm st.gpj

Appendix C

Your Project #: 24-330-100
Site Location: ELM STREET
Your C.O.C. #: N/A

Attention: Marina Nadj

DS Consultants Limited
6221 Highway 7, Unit 16
Vaughan, ON
CANADA L4H 0K8

Report Date: 2024/12/16
Report #: R8448215
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4AL466
Received: 2024/11/25, 17:56

Sample Matrix: Soil
Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	5	N/A	2024/12/02	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	1	2024/11/28	2024/11/29	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	5	2024/11/29	2024/11/29	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	1	2024/12/13	2024/12/13	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum	3	N/A	2024/11/29		EPA 8260C m
Free (WAD) Cyanide	5	2024/11/28	2024/11/29	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2024/11/29	2024/11/29	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide	1	2024/12/13	2024/12/13	CAM SOP-00457	OMOE E3015 m
Conductivity	6	2024/11/29	2024/11/29	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2024/12/13	2024/12/13	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	2	2024/11/28	2024/11/28	CAM SOP-00436	EPA 3060A/7199 m
Hexavalent Chromium in Soil by IC (1)	3	2024/11/28	2024/11/29	CAM SOP-00436	EPA 3060A/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2024/11/29	2024/11/29	CAM SOP-00436	EPA 3060A/7199 m
Hexavalent Chromium in Soil by IC (1)	1	2024/12/13	2024/12/13	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	3	N/A	2024/11/29	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	5	2024/11/28	2024/11/28	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	1	2024/11/28	2024/11/29	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	2	2024/12/01	2024/12/01	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS	5	2024/11/29	2024/11/29	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	2	2024/11/29	2024/11/30	CAM SOP-00447	EPA 6020B m
Moisture	8	N/A	2024/11/27	CAM SOP-00445	Carter 2nd ed 70.2 m
Moisture	3	N/A	2024/11/28	CAM SOP-00445	Carter 2nd ed 70.2 m
Moisture	1	N/A	2024/12/12	CAM SOP-00445	Carter 2nd ed 70.2 m
PAH Compounds in Soil by GC/MS (SIM)	5	2024/11/28	2024/11/30	CAM SOP-00318	EPA 8270E
pH CaCl2 EXTRACT	2	2024/11/28	2024/11/28	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	4	2024/11/29	2024/11/29	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT	1	2024/12/13	2024/12/13	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	1	N/A	2024/12/13	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	6	N/A	2024/12/02	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	3	N/A	2024/11/28	CAM SOP-00230	EPA 8260C m

Your Project #: 24-330-100
Site Location: ELM STREET
Your C.O.C. #: N/A

Attention: Marina Nadj

DS Consultants Limited
6221 Highway 7, Unit 16
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CANADA L4H 0K8

Report Date: 2024/12/16
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Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4AL466
Received: 2024/11/25, 17:56

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.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Soils are reported on a dry weight basis unless otherwise specified.
(2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Your Project #: 24-330-100
Site Location: ELM STREET
Your C.O.C. #: N/A

Attention: Marina Nadj

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CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4AL466
Received: 2024/11/25, 17:56

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ashton Gibson, Project Manager
Email: ashton.gibson@bureauveritas.com
Phone# (905)817-5765

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID				AJXY19				AJXY20			
Sampling Date				2024/11/22				2024/11/22			
COC Number				N/A				N/A			
	UNITS	Criteria	Criteria-2	MW24-1 SS2	RDL	MDL	QC Batch	MW24-1 SS4	RDL	MDL	QC Batch
Calculated Parameters											
Sodium Adsorption Ratio	N/A	5.0	5.0					**5.1**			9788783
Inorganics											
Conductivity	mS/cm	0.7	0.7					0.62	0.002	0.0005	9796260
Moisture	%	-	-	19	1.0	0.50	9793195	19	1.0	0.50	9793195
Available (CaCl2) pH	pH	-	-					7.30			9796806
WAD Cyanide (Free)	ug/g	0.051	0.051					<0.01	0.01	0.0019	9796095

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

Bureau Veritas ID				AJXY21				AJXY22	AJXY23			
Sampling Date				2024/11/22				2024/11/22	2024/11/22			
COC Number				N/A				N/A	N/A			
	UNITS	Criteria	Criteria-2	MW24-1 SS5	RDL	MDL	QC Batch	MW24-1 SS9	BH24-2 SS2	RDL	MDL	QC Batch
Calculated Parameters												
Sodium Adsorption Ratio	N/A	5.0	5.0	2.9			9788783					
Inorganics												
Conductivity	mS/cm	0.7	0.7	0.30	0.002	0.0005	9796691					
Moisture	%	-	-	12	1.0	0.50	9793195	13	21	1.0	0.50	9793195
Available (CaCl2) pH	pH	-	-	8.00			9794545					
WAD Cyanide (Free)	ug/g	0.051	0.051	<0.01	0.01	0.0019	9795028					

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
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Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID				AJXY24		AJXY25		AJXY26			
Sampling Date				2024/11/22		2024/11/22		2024/11/22			
COC Number				N/A		N/A		N/A			
	UNITS	Criteria	Criteria-2	BH24-2 SS3	QC Batch	BH24-3 SS2	QC Batch	BH24-3 SS6	RDL	MDL	QC Batch
Calculated Parameters											
Sodium Adsorption Ratio	N/A	5.0	5.0	2.4	9788783	**9.1**	9788783	3.2			9788783
Inorganics											
Conductivity	mS/cm	0.7	0.7	0.49	9796691	**1.1**	9796691	0.40	0.002	0.0005	9796691
Moisture	%	-	-	22	9793792	23	9793195	14	1.0	0.50	9793792
Available (CaCl2) pH	pH	-	-	7.09	9796812	7.48	9794550	7.76			9796812
WAD Cyanide (Free)	ug/g	0.051	0.051	<0.01	9794546	<0.01	9795028	<0.01	0.01	0.0019	9794546

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

Bureau Veritas ID				AJXY27	AJXY28				AJXY29			
Sampling Date				2024/11/22	2024/11/22				2024/11/22			
COC Number				N/A	N/A				N/A			
	UNITS	Criteria	Criteria-2	QAQC-1	BH24-4 SS2	RDL	MDL	QC Batch	BH24-4 SS3	RDL	MDL	QC Batch
Calculated Parameters												
Sodium Adsorption Ratio	N/A	5.0	5.0						**10**			9788783
Inorganics												
Conductivity	mS/cm	0.7	0.7						**2.4**	0.002	0.0005	9796691
Moisture	%	-	-	14	17	1.0	0.50	9793195	20	1.0	0.50	9793792
Available (CaCl2) pH	pH	-	-						7.28			9796812
WAD Cyanide (Free)	ug/g	0.051	0.051						<0.01	0.01	0.0019	9794546

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
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Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID				AJXY30			
Sampling Date				2024/11/22			
COC Number				N/A			
	UNITS	Criteria	Criteria-2	BH24-4 SS6	RDL	MDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	5.0	5.0	1.0			9822618
Inorganics							
Conductivity	mS/cm	0.7	0.7	0.28	0.002	0.0005	9825245
Moisture	%	-	-	15	1.0	0.50	9823441
Available (CaCl2) pH	pH	-	-	7.92			9825595
WAD Cyanide (Free)	ug/g	0.051	0.051	<0.01	0.01	0.0019	9825328

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
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Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID				AJXY20		AJXY21		AJXY24			
Sampling Date				2024/11/22		2024/11/22		2024/11/22			
COC Number				N/A		N/A		N/A			
	UNITS	Criteria	Criteria-2	MW24-1 SS4	QC Batch	MW24-1 SS5	QC Batch	BH24-2 SS3	RDL	MDL	QC Batch
Inorganics											
Chromium (VI)	ug/g	8	8	0.21	9796105	<0.18	9793974	0.41	0.18	0.050	9795124
Metals											
Hot Water Ext. Boron (B)	ug/g	1.5	1.5	0.20	9795633	0.14	9796379	0.22	0.050	0.030	9796291
Acid Extractable Antimony (Sb)	ug/g	7.5	7.5	<0.20	9796519	<0.20	9796552	0.55	0.20	0.10	9796552
Acid Extractable Arsenic (As)	ug/g	18	18	**37**	9796519	5.3	9796552	**39**	1.0	0.10	9796552
Acid Extractable Barium (Ba)	ug/g	390	390	**490**	9796519	64	9796552	**680**	0.50	0.30	9796552
Acid Extractable Beryllium (Be)	ug/g	4	4	0.94	9796519	0.67	9796552	1.4	0.20	0.020	9796552
Acid Extractable Boron (B)	ug/g	120	120	18	9796519	8.6	9796552	13	5.0	1.0	9796552
Acid Extractable Cadmium (Cd)	ug/g	1.2	1.2	**2.2**	9796519	0.10	9796552	**2.6**	0.10	0.030	9796552
Acid Extractable Chromium (Cr)	ug/g	160	160	21	9796519	21	9796552	29	1.0	0.20	9796552
Acid Extractable Cobalt (Co)	ug/g	22	22	18	9796519	11	9796552	22	0.10	0.020	9796552
Acid Extractable Copper (Cu)	ug/g	140	140	120	9796519	33	9796552	39	0.50	0.20	9796552
Acid Extractable Lead (Pb)	ug/g	120	120	**200**	9796519	10	9796552	**220**	1.0	0.10	9796552
Acid Extractable Molybdenum (Mo)	ug/g	6.9	6.9	2.4	9796519	0.53	9796552	2.4	0.50	0.10	9796552
Acid Extractable Nickel (Ni)	ug/g	100	100	45	9796519	25	9796552	54	0.50	0.20	9796552
Acid Extractable Selenium (Se)	ug/g	2.4	2.4	<0.50	9796519	<0.50	9796552	<0.50	0.50	0.10	9796552
Acid Extractable Silver (Ag)	ug/g	20	20	0.46	9796519	<0.20	9796552	0.27	0.20	0.040	9796552
Acid Extractable Thallium (Tl)	ug/g	1	1	0.24	9796519	0.094	9796552	0.26	0.050	0.010	9796552
Acid Extractable Uranium (U)	ug/g	23	23	0.65	9796519	0.51	9796552	0.93	0.050	0.030	9796552
Acid Extractable Vanadium (V)	ug/g	86	86	41	9796519	28	9796552	42	5.0	0.50	9796552
Acid Extractable Zinc (Zn)	ug/g	340	340	**390**	9796519	63	9796552	**440**	5.0	0.50	9796552
Acid Extractable Mercury (Hg)	ug/g	0.27	0.27	<0.050	9796519	<0.050	9796552	<0.050	0.050	0.030	9796552

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
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Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID				AJXY25		AJXY26			
Sampling Date				2024/11/22		2024/11/22			
COC Number				N/A		N/A			
	UNITS	Criteria	Criteria-2	BH24-3 SS2	QC Batch	BH24-3 SS6	RDL	MDL	QC Batch
Inorganics									
Chromium (VI)	ug/g	8	8	0.54	9793974	<0.18	0.18	0.050	9795124
Metals									
Hot Water Ext. Boron (B)	ug/g	1.5	1.5	0.19	9796379	0.18	0.050	0.030	9796379
Acid Extractable Antimony (Sb)	ug/g	7.5	7.5	0.25	9796552	<0.20	0.20	0.10	9796552
Acid Extractable Arsenic (As)	ug/g	18	18	**22**	9796552	7.9	1.0	0.10	9796552
Acid Extractable Barium (Ba)	ug/g	390	390	360	9796552	67	0.50	0.30	9796552
Acid Extractable Beryllium (Be)	ug/g	4	4	0.93	9796552	0.65	0.20	0.020	9796552
Acid Extractable Boron (B)	ug/g	120	120	12	9796552	10	5.0	1.0	9796552
Acid Extractable Cadmium (Cd)	ug/g	1.2	1.2	1.1	9796552	<0.10	0.10	0.030	9796552
Acid Extractable Chromium (Cr)	ug/g	160	160	21	9796552	20	1.0	0.20	9796552
Acid Extractable Cobalt (Co)	ug/g	22	22	14	9796552	11	0.10	0.020	9796552
Acid Extractable Copper (Cu)	ug/g	140	140	32	9796552	26	0.50	0.20	9796552
Acid Extractable Lead (Pb)	ug/g	120	120	**150**	9796552	8.6	1.0	0.10	9796552
Acid Extractable Molybdenum (Mo)	ug/g	6.9	6.9	1.5	9796552	0.65	0.50	0.10	9796552
Acid Extractable Nickel (Ni)	ug/g	100	100	31	9796552	25	0.50	0.20	9796552
Acid Extractable Selenium (Se)	ug/g	2.4	2.4	<0.50	9796552	<0.50	0.50	0.10	9796552
Acid Extractable Silver (Ag)	ug/g	20	20	<0.20	9796552	<0.20	0.20	0.040	9796552
Acid Extractable Thallium (Tl)	ug/g	1	1	0.15	9796552	0.092	0.050	0.010	9796552
Acid Extractable Uranium (U)	ug/g	23	23	0.51	9796552	0.53	0.050	0.030	9796552
Acid Extractable Vanadium (V)	ug/g	86	86	29	9796552	26	5.0	0.50	9796552
Acid Extractable Zinc (Zn)	ug/g	340	340	290	9796552	64	5.0	0.50	9796552
Acid Extractable Mercury (Hg)	ug/g	0.27	0.27	<0.050	9796552	<0.050	0.050	0.030	9796552

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID				AJXY29				AJXY30			
Sampling Date				2024/11/22				2024/11/22			
COC Number				N/A				N/A			
	UNITS	Criteria	Criteria-2	BH24-4 SS3	RDL	MDL	QC Batch	BH24-4 SS6	RDL	MDL	QC Batch
Inorganics											
Chromium (VI)	ug/g	8	8	<0.18	0.18	0.050	9795124	<0.18	0.18	0.050	9825827
Metals											
Hot Water Ext. Boron (B)	ug/g	1.5	1.5	1.5	0.050	0.030	9796379	0.19	0.050	0.030	9825205
Acid Extractable Antimony (Sb)	ug/g	7.5	7.5	3.0	0.20	0.10	9796400	<0.20	0.20	0.10	9796552
Acid Extractable Arsenic (As)	ug/g	18	18	**50**	1.0	0.10	9796400	5.9	1.0	0.10	9796552
Acid Extractable Barium (Ba)	ug/g	390	390	**770**	0.50	0.30	9796400	70	0.50	0.30	9796552
Acid Extractable Beryllium (Be)	ug/g	4	4	0.97	0.20	0.020	9796400	0.58	0.20	0.020	9796552
Acid Extractable Boron (B)	ug/g	120	120	23	5.0	1.0	9796400	8.6	5.0	1.0	9796552
Acid Extractable Cadmium (Cd)	ug/g	1.2	1.2	**3.2**	0.10	0.030	9796400	<0.10	0.10	0.030	9796552
Acid Extractable Chromium (Cr)	ug/g	160	160	25	1.0	0.20	9796400	18	1.0	0.20	9796552
Acid Extractable Cobalt (Co)	ug/g	22	22	18	0.10	0.020	9796400	10	0.10	0.020	9796552
Acid Extractable Copper (Cu)	ug/g	140	140	**160**	0.50	0.20	9796400	27	0.50	0.20	9796552
Acid Extractable Lead (Pb)	ug/g	120	120	**1900**	1.0	0.10	9796400	9.0	1.0	0.10	9796552
Acid Extractable Molybdenum (Mo)	ug/g	6.9	6.9	3.1	0.50	0.10	9796400	<0.50	0.50	0.10	9796552
Acid Extractable Nickel (Ni)	ug/g	100	100	53	0.50	0.20	9796400	23	0.50	0.20	9796552
Acid Extractable Selenium (Se)	ug/g	2.4	2.4	**6.5**	0.50	0.10	9796400	<0.50	0.50	0.10	9796552
Acid Extractable Silver (Ag)	ug/g	20	20	2.8	0.20	0.040	9796400	<0.20	0.20	0.040	9796552
Acid Extractable Thallium (Tl)	ug/g	1	1	0.68	0.050	0.010	9796400	0.088	0.050	0.010	9796552
Acid Extractable Uranium (U)	ug/g	23	23	0.53	0.050	0.030	9796400	0.51	0.050	0.030	9796552
Acid Extractable Vanadium (V)	ug/g	86	86	31	5.0	0.50	9796400	26	5.0	0.50	9796552
Acid Extractable Zinc (Zn)	ug/g	340	340	**620**	5.0	0.50	9796400	53	5.0	0.50	9796552
Acid Extractable Mercury (Hg)	ug/g	0.27	0.27	**29**	0.25	0.15	9796400	<0.050	0.050	0.030	9796552

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID				AJXY20	AJXY21	AJXY23	AJXY25			
Sampling Date				2024/11/22	2024/11/22	2024/11/22	2024/11/22			
COC Number				N/A	N/A	N/A	N/A			
	UNITS	Criteria	Criteria-2	MW24-1 SS4	MW24-1 SS5	BH24-2 SS2	BH24-3 SS2	RDL	MDL	QC Batch
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/g	-	0.99	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	N/A	9788789
Polyaromatic Hydrocarbons										
Acenaphthene	ug/g	7.9	7.9	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00050	9797043
Acenaphthylene	ug/g	0.15	0.15	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9797043
Anthracene	ug/g	0.67	0.67	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9797043
Benzo(a)anthracene	ug/g	0.5	0.5	<0.0050	<0.0050	<0.0050	0.0052	0.0050	0.00040	9797043
Benzo(a)pyrene	ug/g	0.3	0.3	<0.0050	<0.0050	<0.0050	0.0068	0.0050	0.00040	9797043
Benzo(b/j)fluoranthene	ug/g	0.78	0.78	<0.0050	<0.0050	<0.0050	0.010	0.0050	0.00060	9797043
Benzo(g,h,i)perylene	ug/g	6.6	6.6	<0.0050	<0.0050	<0.0050	0.0052	0.0050	0.00050	9797043
Benzo(k)fluoranthene	ug/g	0.78	0.78	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00030	9797043
Chrysene	ug/g	7	7	<0.0050	<0.0050	<0.0050	0.0061	0.0050	0.00030	9797043
Dibenzo(a,h)anthracene	ug/g	0.1	0.1	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00030	9797043
Fluoranthene	ug/g	0.69	0.69	<0.0050	<0.0050	<0.0050	0.014	0.0050	0.00060	9797043
Fluorene	ug/g	62	62	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00050	9797043
Indeno(1,2,3-cd)pyrene	ug/g	0.38	0.38	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00030	9797043
1-Methylnaphthalene	ug/g	0.99	0.99	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9797043
2-Methylnaphthalene	ug/g	0.99	0.99	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00070	9797043
Naphthalene	ug/g	0.6	0.6	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9797043
Phenanthrene	ug/g	6.2	6.2	<0.0050	<0.0050	<0.0050	0.014	0.0050	0.00040	9797043
Pyrene	ug/g	78	78	<0.0050	<0.0050	<0.0050	0.013	0.0050	0.00030	9797043
Surrogate Recovery (%)										
D10-Anthracene	%	-	-	106	104	107	105			9797043
D14-Terphenyl (FS)	%	-	-	96	95	96	94			9797043
D8-Acenaphthylene	%	-	-	96	97	95	93			9797043

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
N/A = Not Applicable

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SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID				AJXY29				AJXY29			
Sampling Date				2024/11/22				2024/11/22			
COC Number				N/A				N/A			
	UNITS	Criteria	Criteria-2	BH24-4 SS3	RDL	MDL	QC Batch	BH24-4 SS3 Lab-Dup	RDL	MDL	QC Batch
Calculated Parameters											
Methylnaphthalene, 2-(1-)	ug/g	-	0.99	<0.0071	0.0071	N/A	9788789				
Polyaromatic Hydrocarbons											
Acenaphthene	ug/g	7.9	7.9	<0.0050	0.0050	0.00050	9797043	<0.0050	0.0050	0.00050	9797043
Acenaphthylene	ug/g	0.15	0.15	<0.0050	0.0050	0.00060	9797043	0.0077	0.0050	0.00060	9797043
Anthracene	ug/g	0.67	0.67	<0.0050	0.0050	0.00040	9797043	0.0064	0.0050	0.00040	9797043
Benzo(a)anthracene	ug/g	0.5	0.5	<0.0050	0.0050	0.00040	9797043	0.019 (1)	0.0050	0.00040	9797043
Benzo(a)pyrene	ug/g	0.3	0.3	<0.0050	0.0050	0.00040	9797043	0.051 (1)	0.0050	0.00040	9797043
Benzo(b/j)fluoranthene	ug/g	0.78	0.78	0.015	0.0050	0.00060	9797043	0.14 (1)	0.0050	0.00060	9797043
Benzo(g,h,i)perylene	ug/g	6.6	6.6	0.021	0.0050	0.00050	9797043	0.20 (1)	0.0050	0.00050	9797043
Benzo(k)fluoranthene	ug/g	0.78	0.78	<0.0050	0.0050	0.00030	9797043	0.025 (1)	0.0050	0.00030	9797043
Chrysene	ug/g	7	7	<0.0050	0.0050	0.00030	9797043	0.023 (1)	0.0050	0.00030	9797043
Dibenzo(a,h)anthracene	ug/g	0.1	0.1	<0.0050	0.0050	0.00030	9797043	0.022 (1)	0.0050	0.00030	9797043
Fluoranthene	ug/g	0.69	0.69	<0.0050	0.0050	0.00060	9797043	0.020 (1)	0.0050	0.00060	9797043
Fluorene	ug/g	62	62	<0.0050	0.0050	0.00050	9797043	<0.0050	0.0050	0.00050	9797043
Indeno(1,2,3-cd)pyrene	ug/g	0.38	0.38	0.017	0.0050	0.00030	9797043	0.20 (1)	0.0050	0.00030	9797043
1-Methylnaphthalene	ug/g	0.99	0.99	<0.0050	0.0050	0.00060	9797043	<0.0050	0.0050	0.00060	9797043
2-Methylnaphthalene	ug/g	0.99	0.99	<0.0050	0.0050	0.00070	9797043	<0.0050	0.0050	0.00070	9797043
Naphthalene	ug/g	0.6	0.6	<0.0050	0.0050	0.00040	9797043	<0.0050	0.0050	0.00040	9797043
Phenanthrene	ug/g	6.2	6.2	<0.0050	0.0050	0.00040	9797043	0.012	0.0050	0.00040	9797043
Pyrene	ug/g	78	78	<0.0050	0.0050	0.00030	9797043	0.026 (1)	0.0050	0.00030	9797043
Surrogate Recovery (%)											
D10-Anthracene	%	-	-	113			9797043	91			9797043

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
N/A = Not Applicable
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID				AJXY29				AJXY29			
Sampling Date				2024/11/22				2024/11/22			
COC Number				N/A				N/A			
	UNITS	Criteria	Criteria-2	BH24-4 SS3	RDL	MDL	QC Batch	BH24-4 SS3 Lab-Dup	RDL	MDL	QC Batch
D14-Terphenyl (FS)	%	-	-	96			9797043	100			9797043
D8-Acenaphthylene	%	-	-	87			9797043	101			9797043

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
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Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
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Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID				AJXY19	AJXY22	AJXY27			
Sampling Date				2024/11/22	2024/11/22	2024/11/22			
COC Number				N/A	N/A	N/A			
	UNITS	Criteria	Criteria-2	MW24-1 SS2	MW24-1 SS9	QAQC-1	RDL	MDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	0.05	0.05	<0.050	<0.050	<0.050	0.050	0.010	9788792
Volatile Organics									
Acetone (2-Propanone)	ug/g	16	16	<0.49	<0.49	<0.49	0.49	0.49	9791714
Benzene	ug/g	0.21	0.21	<0.0060	<0.0060	0.0064	0.0060	0.0060	9791714
Bromodichloromethane	ug/g	1.5	13	<0.040	<0.040	<0.040	0.040	0.040	9791714
Bromoform	ug/g	0.27	0.27	<0.040	<0.040	<0.040	0.040	0.040	9791714
Bromomethane	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
Carbon Tetrachloride	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
Chlorobenzene	ug/g	2.4	2.4	<0.040	<0.040	<0.040	0.040	0.040	9791714
Chloroform	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
Dibromochloromethane	ug/g	2.3	9.4	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,2-Dichlorobenzene	ug/g	1.2	3.4	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,3-Dichlorobenzene	ug/g	4.8	4.8	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,4-Dichlorobenzene	ug/g	0.083	0.083	<0.040	<0.040	<0.040	0.040	0.040	9791714
Dichlorodifluoromethane (FREON 12)	ug/g	16	16	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,1-Dichloroethane	ug/g	0.47	3.5	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,2-Dichloroethane	ug/g	0.05	0.05	<0.049	<0.049	<0.049	0.049	0.049	9791714
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
cis-1,2-Dichloroethylene	ug/g	1.9	3.4	<0.040	<0.040	<0.040	0.040	0.040	9791714
trans-1,2-Dichloroethylene	ug/g	0.084	0.084	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,2-Dichloropropane	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
cis-1,3-Dichloropropene	ug/g	0.05	0.05	<0.030	<0.030	<0.030	0.030	0.030	9791714
trans-1,3-Dichloropropene	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
Ethylbenzene	ug/g	1.1	2	<0.010	<0.010	<0.010	0.010	0.010	9791714
Ethylene Dibromide	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
Hexane	ug/g	2.8	2.8	<0.040	<0.040	<0.040	0.040	0.040	9791714

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID				AJXY19	AJXY22	AJXY27			
Sampling Date				2024/11/22	2024/11/22	2024/11/22			
COC Number				N/A	N/A	N/A			
	UNITS	Criteria	Criteria-2	MW24-1 SS2	MW24-1 SS9	QAQC-1	RDL	MDL	QC Batch
Methylene Chloride(Dichloromethane)	ug/g	0.1	0.1	<0.049	<0.049	<0.049	0.049	0.049	9791714
Methyl Ethyl Ketone (2-Butanone)	ug/g	16	16	<0.40	<0.40	<0.40	0.40	0.40	9791714
Methyl Isobutyl Ketone	ug/g	1.7	1.7	<0.40	<0.40	<0.40	0.40	0.40	9791714
Methyl t-butyl ether (MTBE)	ug/g	0.75	0.75	<0.040	<0.040	<0.040	0.040	0.040	9791714
Styrene	ug/g	0.7	0.7	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,1,1,2-Tetrachloroethane	ug/g	0.058	0.058	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
Tetrachloroethylene	ug/g	0.28	0.28	<0.040	<0.040	<0.040	0.040	0.040	9791714
Toluene	ug/g	2.3	2.3	<0.020	<0.020	<0.020	0.020	0.020	9791714
1,1,1-Trichloroethane	ug/g	0.38	0.38	<0.040	<0.040	<0.040	0.040	0.040	9791714
1,1,2-Trichloroethane	ug/g	0.05	0.05	<0.040	<0.040	<0.040	0.040	0.040	9791714
Trichloroethylene	ug/g	0.061	0.061	<0.010	<0.010	<0.010	0.010	0.010	9791714
Trichlorofluoromethane (FREON 11)	ug/g	4	4	<0.040	<0.040	<0.040	0.040	0.040	9791714
Vinyl Chloride	ug/g	0.02	0.02	<0.019	<0.019	<0.019	0.019	0.019	9791714
p+m-Xylene	ug/g	-	-	<0.020	<0.020	<0.020	0.020	0.020	9791714
o-Xylene	ug/g	-	-	<0.020	<0.020	<0.020	0.020	0.020	9791714
Total Xylenes	ug/g	3.1	3.1	<0.020	<0.020	<0.020	0.020	0.020	9791714
F1 (C6-C10)	ug/g	55	55	<10	<10	<10	10	2.0	9791714
F1 (C6-C10) - BTEX	ug/g	55	55	<10	<10	<10	10	2.0	9791714
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	-	-	114	111	111			9791714
D10-o-Xylene	%	-	-	98	93	89			9791714
D4-1,2-Dichloroethane	%	-	-	108	108	110			9791714
D8-Toluene	%	-	-	90	92	90			9791714

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID				AJXY19				AJXY22			
Sampling Date				2024/11/22				2024/11/22			
COC Number				N/A				N/A			
	UNITS	Criteria	Criteria-2	MW24-1 SS2	RDL	MDL	QC Batch	MW24-1 SS9	RDL	MDL	QC Batch
F2-F4 Hydrocarbons											
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	2800	2800	850	100	100	9799388				
F2 (C10-C16 Hydrocarbons)	ug/g	98	98	<7.0	7.0	5.0	9794817	<7.0	7.0	5.0	9794817
F3 (C16-C34 Hydrocarbons)	ug/g	300	300	71	50	5.0	9794817	<50	50	5.0	9794817
F4 (C34-C50 Hydrocarbons)	ug/g	2800	2800	290	50	10	9794817	<50	50	10	9794817
Reached Baseline at C50	ug/g	-	-	No			9794817	Yes			9794817
Surrogate Recovery (%)											
o-Terphenyl	%	-	-	92			9794817	97			9794817

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID				AJXY23				AJXY25			
Sampling Date				2024/11/22				2024/11/22			
COC Number				N/A				N/A			
	UNITS	Criteria	Criteria-2	BH24-2 SS2	RDL	MDL	QC Batch	BH24-3 SS2	RDL	MDL	QC Batch
BTEX & F1 Hydrocarbons											
Benzene	ug/g	0.21	0.21	<0.040	0.040	0.040	9795481	<0.020	0.020	0.020	9795481
Toluene	ug/g	2.3	2.3	<0.040	0.040	0.040	9795481	<0.020	0.020	0.020	9795481
Ethylbenzene	ug/g	1.1	2	<0.040	0.040	0.040	9795481	<0.020	0.020	0.020	9795481
o-Xylene	ug/g	-	-	<0.040	0.040	0.040	9795481	<0.020	0.020	0.020	9795481
p+m-Xylene	ug/g	-	-	<0.080	0.080	0.080	9795481	<0.040	0.040	0.040	9795481
Total Xylenes	ug/g	3.1	3.1	<0.080	0.080	0.080	9795481	<0.040	0.040	0.040	9795481
F1 (C6-C10)	ug/g	55	55	<20	20	10	9795481	<10	10	5.0	9795481
F1 (C6-C10) - BTEX	ug/g	55	55	<20	20	10	9795481	<10	10	5.0	9795481
F2-F4 Hydrocarbons											
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	2800	2800					690	100	100	9799388
F2 (C10-C16 Hydrocarbons)	ug/g	98	98	<7.0	7.0	5.0	9794817	<7.0	7.0	5.0	9794817
F3 (C16-C34 Hydrocarbons)	ug/g	300	300	<50	50	5.0	9794817	72	50	5.0	9794817
F4 (C34-C50 Hydrocarbons)	ug/g	2800	2800	55	50	10	9794817	260	50	10	9794817
Reached Baseline at C50	ug/g	-	-	Yes			9794817	No			9794817
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	-	-	97			9795481	97			9795481
4-Bromofluorobenzene	%	-	-	96			9795481	103			9795481
D10-o-Xylene	%	-	-	85			9795481	99			9795481
D4-1,2-Dichloroethane	%	-	-	102			9795481	105			9795481
o-Terphenyl	%	-	-	104			9794817	99			9794817

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID				AJXY27				AJXY28			
Sampling Date				2024/11/22				2024/11/22			
COC Number				N/A				N/A			
	UNITS	Criteria	Criteria-2	QAQC-1	RDL	MDL	QC Batch	BH24-4 SS2	RDL	MDL	QC Batch
BTEX & F1 Hydrocarbons											
Benzene	ug/g	0.21	0.21					<0.020	0.020	0.020	9795481
Toluene	ug/g	2.3	2.3					<0.020	0.020	0.020	9795481
Ethylbenzene	ug/g	1.1	2					<0.020	0.020	0.020	9795481
o-Xylene	ug/g	-	-					<0.020	0.020	0.020	9795481
p+m-Xylene	ug/g	-	-					<0.040	0.040	0.040	9795481
Total Xylenes	ug/g	3.1	3.1					<0.040	0.040	0.040	9795481
F1 (C6-C10)	ug/g	55	55					<10	10	5.0	9795481
F1 (C6-C10) - BTEX	ug/g	55	55					<10	10	5.0	9795481
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	98	98	<7.0	7.0	5.0	9794817	<7.0	7.0	5.0	9794817
F3 (C16-C34 Hydrocarbons)	ug/g	300	300	<50	50	5.0	9794817	93	50	5.0	9794817
F4 (C34-C50 Hydrocarbons)	ug/g	2800	2800	<50	50	10	9794817	220	50	10	9794817
Reached Baseline at C50	ug/g	-	-	Yes			9794817	Yes			9794817
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	-	-					98			9795481
4-Bromofluorobenzene	%	-	-					97			9795481
D10-o-Xylene	%	-	-					98			9795481
D4-1,2-Dichloroethane	%	-	-					106			9795481
o-Terphenyl	%	-	-	99			9794817	108			9794817

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil

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TEST SUMMARY

Bureau Veritas ID: AJXY19 **Collected:** 2024/11/22
Sample ID: MW24-1 SS2 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9788792	N/A	2024/11/29	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9794817	2024/11/28	2024/11/28	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9799388	2024/12/01	2024/12/01	Gagandeep Kaur
Moisture	BAL	9793195	N/A	2024/11/27	Muhammad Chhaidan
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9791714	N/A	2024/11/28	Cheng-Yu Sha

Bureau Veritas ID: AJXY20 **Collected:** 2024/11/22
Sample ID: MW24-1 SS4 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9788789	N/A	2024/12/02	Automated Statchk
Hot Water Extractable Boron	ICP	9795633	2024/11/28	2024/11/29	Japneet Gill
Free (WAD) Cyanide	TECH	9796095	2024/11/29	2024/11/29	Prgya Panchal
Conductivity	AT	9796260	2024/11/29	2024/11/29	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9796105	2024/11/29	2024/11/29	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9796519	2024/11/29	2024/11/30	Prempal Bhatti
Moisture	BAL	9793195	N/A	2024/11/27	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9797043	2024/11/28	2024/11/30	Mitesh Raj
pH CaCl2 EXTRACT	AT	9796806	2024/11/29	2024/11/29	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9788783	N/A	2024/12/02	Automated Statchk

Bureau Veritas ID: AJXY21 **Collected:** 2024/11/22
Sample ID: MW24-1 SS5 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9788789	N/A	2024/12/02	Automated Statchk
Hot Water Extractable Boron	ICP	9796379	2024/11/29	2024/11/29	Japneet Gill
Free (WAD) Cyanide	TECH	9795028	2024/11/28	2024/11/29	Prgya Panchal
Conductivity	AT	9796691	2024/11/29	2024/11/29	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9793974	2024/11/28	2024/11/28	Sousan Besharatlou
Acid Extractable Metals by ICPMS	ICP/MS	9796552	2024/11/29	2024/11/29	Jaswinder Kaur
Moisture	BAL	9793195	N/A	2024/11/27	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9797043	2024/11/28	2024/11/30	Mitesh Raj
pH CaCl2 EXTRACT	AT	9794545	2024/11/28	2024/11/28	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9788783	N/A	2024/12/02	Automated Statchk

Bureau Veritas ID: AJXY22 **Collected:** 2024/11/22
Sample ID: MW24-1 SS9 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9788792	N/A	2024/11/29	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: AJXY22 **Collected:** 2024/11/22
Sample ID: MW24-1 SS9 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9794817	2024/11/28	2024/11/28	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9793195	N/A	2024/11/27	Muhammad Chhaidan
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9791714	N/A	2024/11/28	Cheng-Yu Sha

Bureau Veritas ID: AJXY23 **Collected:** 2024/11/22
Sample ID: BH24-2 SS2 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9788789	N/A	2024/12/02	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9795481	N/A	2024/11/29	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9794817	2024/11/28	2024/11/28	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9793195	N/A	2024/11/27	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9797043	2024/11/28	2024/11/30	Mitesh Raj

Bureau Veritas ID: AJXY24 **Collected:** 2024/11/22
Sample ID: BH24-2 SS3 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9796291	2024/11/29	2024/11/29	Japneet Gill
Free (WAD) Cyanide	TECH	9794546	2024/11/28	2024/11/29	Jency Sara Johnson
Conductivity	AT	9796691	2024/11/29	2024/11/29	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9795124	2024/11/28	2024/11/29	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9796552	2024/11/29	2024/11/29	Jaswinder Kaur
Moisture	BAL	9793792	N/A	2024/11/28	Joe Thomas
pH CaCl2 EXTRACT	AT	9796812	2024/11/29	2024/11/29	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9788783	N/A	2024/12/02	Automated Statchk

Bureau Veritas ID: AJXY25 **Collected:** 2024/11/22
Sample ID: BH24-3 SS2 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9788789	N/A	2024/12/02	Automated Statchk
Hot Water Extractable Boron	ICP	9796379	2024/11/29	2024/11/29	Japneet Gill
Free (WAD) Cyanide	TECH	9795028	2024/11/28	2024/11/29	Prgya Panchal
Conductivity	AT	9796691	2024/11/29	2024/11/29	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9793974	2024/11/28	2024/11/28	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9795481	N/A	2024/11/29	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9794817	2024/11/28	2024/11/28	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9799388	2024/12/01	2024/12/01	Gagandeep Kaur
Acid Extractable Metals by ICPMS	ICP/MS	9796552	2024/11/29	2024/11/29	Jaswinder Kaur
Moisture	BAL	9793195	N/A	2024/11/27	Muhammad Chhaidan

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TEST SUMMARY

Bureau Veritas ID: AJXY25 **Collected:** 2024/11/22
Sample ID: BH24-3 SS2 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9797043	2024/11/28	2024/11/30	Mitesh Raj
pH CaCl2 EXTRACT	AT	9794550	2024/11/28	2024/11/28	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9788783	N/A	2024/12/02	Automated Statchk

Bureau Veritas ID: AJXY26 **Collected:** 2024/11/22
Sample ID: BH24-3 SS6 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9796379	2024/11/29	2024/11/29	Japneet Gill
Free (WAD) Cyanide	TECH	9794546	2024/11/28	2024/11/29	Jency Sara Johnson
Conductivity	AT	9796691	2024/11/29	2024/11/29	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9795124	2024/11/28	2024/11/29	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9796552	2024/11/29	2024/11/29	Jaswinder Kaur
Moisture	BAL	9793792	N/A	2024/11/28	Joe Thomas
pH CaCl2 EXTRACT	AT	9796812	2024/11/29	2024/11/29	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9788783	N/A	2024/12/02	Automated Statchk

Bureau Veritas ID: AJXY27 **Collected:** 2024/11/22
Sample ID: QAQC-1 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9788792	N/A	2024/11/29	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9794817	2024/11/28	2024/11/28	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9793195	N/A	2024/11/27	Muhammad Chhaidan
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9791714	N/A	2024/11/28	Cheng-Yu Sha

Bureau Veritas ID: AJXY28 **Collected:** 2024/11/22
Sample ID: BH24-4 SS2 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9795481	N/A	2024/11/29	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9794817	2024/11/28	2024/11/29	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9793195	N/A	2024/11/27	Muhammad Chhaidan

Bureau Veritas ID: AJXY29 **Collected:** 2024/11/22
Sample ID: BH24-4 SS3 **Shipped:**
Matrix: Soil **Received:** 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9788789	N/A	2024/12/02	Automated Statchk
Hot Water Extractable Boron	ICP	9796379	2024/11/29	2024/11/29	Japneet Gill
Free (WAD) Cyanide	TECH	9794546	2024/11/28	2024/11/29	Jency Sara Johnson

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TEST SUMMARY

Bureau Veritas ID: AJXY29
Sample ID: BH24-4 SS3
Matrix: Soil

Collected: 2024/11/22
Shipped:
Received: 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9796691	2024/11/29	2024/11/29	Kien Tran
Hexavalent Chromium in Soil by IC	IC/SPEC	9795124	2024/11/28	2024/11/29	Rupinder Sihota
Acid Extractable Metals by ICPMS	ICP/MS	9796400	2024/11/29	2024/11/30	Prempal Bhatti
Moisture	BAL	9793792	N/A	2024/11/28	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9797043	2024/11/28	2024/11/30	Mitesh Raj
pH CaCl2 EXTRACT	AT	9796812	2024/11/29	2024/11/29	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9788783	N/A	2024/12/02	Automated Statchk

Bureau Veritas ID: AJXY29 Dup
Sample ID: BH24-4 SS3
Matrix: Soil

Collected: 2024/11/22
Shipped:
Received: 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9797043	2024/11/28	2024/11/30	Mitesh Raj

Bureau Veritas ID: AJXY30
Sample ID: BH24-4 SS6
Matrix: Soil

Collected: 2024/11/22
Shipped:
Received: 2024/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9825205	2024/12/13	2024/12/13	Japneet Gill
Free (WAD) Cyanide	TECH	9825328	2024/12/13	2024/12/13	Prgya Panchal
Conductivity	AT	9825245	2024/12/13	2024/12/13	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9825827	2024/12/13	2024/12/13	Sousan Besharatlou
Acid Extractable Metals by ICPMS	ICP/MS	9796552	2024/11/29	2024/11/29	Jaswinder Kaur
Moisture	BAL	9823441	N/A	2024/12/12	Muhammad Chhaidan
pH CaCl2 EXTRACT	AT	9825595	2024/12/13	2024/12/13	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9822618	N/A	2024/12/13	Automated Statchk

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GENERAL COMMENTS

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

Package 1	2.3°C

Revised Report[12/16/2024]: Metals & Inorganics analysis added to sample BH24-4 SS6

Sample AJXY23 [BH24-2 SS2] : F1/BTEX Analysis: Detection limits were adjusted for sample weight.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9791714	4-Bromofluorobenzene	2024/11/27	106	60 - 140	107	60 - 140	104	%		
9791714	D10-o-Xylene	2024/11/27	108	60 - 130	106	60 - 130	81	%		
9791714	D4-1,2-Dichloroethane	2024/11/27	102	60 - 140	104	60 - 140	106	%		
9791714	D8-Toluene	2024/11/27	105	60 - 140	105	60 - 140	94	%		
9794817	o-Terphenyl	2024/11/28	91	60 - 140	97	60 - 140	95	%		
9795481	1,4-Difluorobenzene	2024/11/28	86	60 - 140	95	60 - 140	97	%		
9795481	4-Bromofluorobenzene	2024/11/28	101	60 - 140	100	60 - 140	99	%		
9795481	D10-o-Xylene	2024/11/28	84	60 - 140	100	60 - 140	81	%		
9795481	D4-1,2-Dichloroethane	2024/11/28	95	60 - 140	89	60 - 140	106	%		
9797043	D10-Anthracene	2024/11/30	89	50 - 130	103	50 - 130	81	%		
9797043	D14-Terphenyl (FS)	2024/11/30	92	50 - 130	94	50 - 130	54	%		
9797043	D8-Acenaphthylene	2024/11/30	96	50 - 130	104	50 - 130	89	%		
9791714	1,1,1,2-Tetrachloroethane	2024/11/27	107	60 - 140	109	60 - 130	<0.040	ug/g		
9791714	1,1,1-Trichloroethane	2024/11/27	100	60 - 140	102	60 - 130	<0.040	ug/g		
9791714	1,1,2,2-Tetrachloroethane	2024/11/27	88	60 - 140	91	60 - 130	<0.040	ug/g		
9791714	1,1,2-Trichloroethane	2024/11/27	100	60 - 140	105	60 - 130	<0.040	ug/g		
9791714	1,1-Dichloroethane	2024/11/27	95	60 - 140	97	60 - 130	<0.040	ug/g		
9791714	1,1-Dichloroethylene	2024/11/27	103	60 - 140	105	60 - 130	<0.040	ug/g		
9791714	1,2-Dichlorobenzene	2024/11/27	98	60 - 140	100	60 - 130	<0.040	ug/g		
9791714	1,2-Dichloroethane	2024/11/27	104	60 - 140	107	60 - 130	<0.049	ug/g		
9791714	1,2-Dichloropropane	2024/11/27	96	60 - 140	98	60 - 130	<0.040	ug/g		
9791714	1,3-Dichlorobenzene	2024/11/27	100	60 - 140	102	60 - 130	<0.040	ug/g		
9791714	1,4-Dichlorobenzene	2024/11/27	102	60 - 140	103	60 - 130	<0.040	ug/g		
9791714	Acetone (2-Propanone)	2024/11/27	96	60 - 140	100	60 - 140	<0.49	ug/g		
9791714	Benzene	2024/11/27	95	60 - 140	97	60 - 130	<0.0060	ug/g	NC	50
9791714	Bromodichloromethane	2024/11/27	97	60 - 140	100	60 - 130	<0.040	ug/g		
9791714	Bromoform	2024/11/27	94	60 - 140	98	60 - 130	<0.040	ug/g		
9791714	Bromomethane	2024/11/27	89	60 - 140	88	60 - 140	<0.040	ug/g		
9791714	Carbon Tetrachloride	2024/11/27	108	60 - 140	109	60 - 130	<0.040	ug/g		
9791714	Chlorobenzene	2024/11/27	94	60 - 140	97	60 - 130	<0.040	ug/g		
9791714	Chloroform	2024/11/27	99	60 - 140	101	60 - 130	<0.040	ug/g		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9791714	cis-1,2-Dichloroethylene	2024/11/27	104	60 - 140	105	60 - 130	<0.040	ug/g		
9791714	cis-1,3-Dichloropropene	2024/11/27	104	60 - 140	102	60 - 130	<0.030	ug/g		
9791714	Dibromochloromethane	2024/11/27	100	60 - 140	103	60 - 130	<0.040	ug/g		
9791714	Dichlorodifluoromethane (FREON 12)	2024/11/27	77	60 - 140	79	60 - 140	<0.040	ug/g		
9791714	Ethylbenzene	2024/11/27	98	60 - 140	101	60 - 130	<0.010	ug/g	NC	50
9791714	Ethylene Dibromide	2024/11/27	97	60 - 140	99	60 - 130	<0.040	ug/g		
9791714	F1 (C6-C10) - BTEX	2024/11/27					<10	ug/g	NC	30
9791714	F1 (C6-C10)	2024/11/27	89	60 - 140	87	80 - 120	<10	ug/g	NC	30
9791714	Hexane	2024/11/27	118	60 - 140	118	60 - 130	<0.040	ug/g		
9791714	Methyl Ethyl Ketone (2-Butanone)	2024/11/27	86	60 - 140	90	60 - 140	<0.40	ug/g		
9791714	Methyl Isobutyl Ketone	2024/11/27	96	60 - 140	101	60 - 130	<0.40	ug/g		
9791714	Methyl t-butyl ether (MTBE)	2024/11/27	95	60 - 140	98	60 - 130	<0.040	ug/g		
9791714	Methylene Chloride(Dichloromethane)	2024/11/27	94	60 - 140	96	60 - 130	<0.049	ug/g		
9791714	o-Xylene	2024/11/27	107	60 - 140	109	60 - 130	<0.020	ug/g	NC	50
9791714	p+m-Xylene	2024/11/27	99	60 - 140	101	60 - 130	<0.020	ug/g	NC	50
9791714	Styrene	2024/11/27	81	60 - 140	83	60 - 130	<0.040	ug/g		
9791714	Tetrachloroethylene	2024/11/27	100	60 - 140	100	60 - 130	<0.040	ug/g		
9791714	Toluene	2024/11/27	98	60 - 140	100	60 - 130	<0.020	ug/g	NC	50
9791714	Total Xylenes	2024/11/27					<0.020	ug/g	NC	50
9791714	trans-1,2-Dichloroethylene	2024/11/27	104	60 - 140	106	60 - 130	<0.040	ug/g		
9791714	trans-1,3-Dichloropropene	2024/11/27	121	60 - 140	116	60 - 130	<0.040	ug/g		
9791714	Trichloroethylene	2024/11/27	102	60 - 140	104	60 - 130	<0.010	ug/g		
9791714	Trichlorofluoromethane (FREON 11)	2024/11/27	103	60 - 140	105	60 - 130	<0.040	ug/g		
9791714	Vinyl Chloride	2024/11/27	90	60 - 140	92	60 - 130	<0.019	ug/g		
9793195	Moisture	2024/11/27							0.46	20
9793792	Moisture	2024/11/28							1.4	20
9793974	Chromium (VI)	2024/11/28	83	70 - 130	93	80 - 120	<0.18	ug/g	NC	35
9794545	Available (CaCl2) pH	2024/11/28			100	97 - 103			0.61	N/A
9794546	WAD Cyanide (Free)	2024/11/29	96	75 - 125	102	80 - 120	<0.01	ug/g	NC	35
9794550	Available (CaCl2) pH	2024/11/28			100	97 - 103			1.7	N/A
9794817	F2 (C10-C16 Hydrocarbons)	2024/11/28	85	60 - 140	92	80 - 120	<7.0	ug/g	8.9	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9794817	F3 (C16-C34 Hydrocarbons)	2024/11/28	91	60 - 140	98	80 - 120	<50	ug/g	12	30
9794817	F4 (C34-C50 Hydrocarbons)	2024/11/28	94	60 - 140	101	80 - 120	<50	ug/g	NC	30
9795028	WAD Cyanide (Free)	2024/11/29	97	75 - 125	102	80 - 120	<0.01	ug/g	NC	35
9795124	Chromium (VI)	2024/11/29	0 (1)	70 - 130	89	80 - 120	<0.18	ug/g	NC	35
9795481	Benzene	2024/11/28	68	50 - 140	89	50 - 140	<0.020	ug/g	NC	50
9795481	Ethylbenzene	2024/11/28	82	50 - 140	99	50 - 140	<0.020	ug/g	NC	50
9795481	F1 (C6-C10) - BTEX	2024/11/28					<10	ug/g	NC	30
9795481	F1 (C6-C10)	2024/11/28	91	60 - 140	106	80 - 120	<10	ug/g	NC	30
9795481	o-Xylene	2024/11/28	81	50 - 140	94	50 - 140	<0.020	ug/g	NC	50
9795481	p+m-Xylene	2024/11/28	79	50 - 140	93	50 - 140	<0.040	ug/g	NC	50
9795481	Toluene	2024/11/28	73	50 - 140	89	50 - 140	<0.020	ug/g	NC	50
9795481	Total Xylenes	2024/11/28					<0.040	ug/g	NC	50
9795633	Hot Water Ext. Boron (B)	2024/11/29	106	75 - 125	99	75 - 125	<0.050	ug/g	6.9	40
9796095	WAD Cyanide (Free)	2024/11/29	97	75 - 125	101	80 - 120	<0.01	ug/g	NC	35
9796105	Chromium (VI)	2024/11/29	67 (1)	70 - 130	88	80 - 120	<0.18	ug/g	NC	35
9796260	Conductivity	2024/11/29			101	90 - 110	<0.002	mS/cm	0.97	10
9796291	Hot Water Ext. Boron (B)	2024/11/29	108	75 - 125	102	75 - 125	<0.050	ug/g	2.7	40
9796379	Hot Water Ext. Boron (B)	2024/11/29	NC	75 - 125	95	75 - 125	<0.050	ug/g	3.8	40
9796400	Acid Extractable Antimony (Sb)	2024/11/30	102	75 - 125	100	80 - 120	<0.20	ug/g	NC	30
9796400	Acid Extractable Arsenic (As)	2024/11/30	103	75 - 125	103	80 - 120	<1.0	ug/g	0.014	30
9796400	Acid Extractable Barium (Ba)	2024/11/30	108	75 - 125	96	80 - 120	<0.50	ug/g	1.5	30
9796400	Acid Extractable Beryllium (Be)	2024/11/30	103	75 - 125	98	80 - 120	<0.20	ug/g	NC	30
9796400	Acid Extractable Boron (B)	2024/11/30	97	75 - 125	91	80 - 120	<5.0	ug/g	NC	30
9796400	Acid Extractable Cadmium (Cd)	2024/11/30	101	75 - 125	97	80 - 120	<0.10	ug/g	NC	30
9796400	Acid Extractable Chromium (Cr)	2024/11/30	103	75 - 125	100	80 - 120	<1.0	ug/g	3.2	30
9796400	Acid Extractable Cobalt (Co)	2024/11/30	104	75 - 125	102	80 - 120	<0.10	ug/g	0.38	30
9796400	Acid Extractable Copper (Cu)	2024/11/30	103	75 - 125	98	80 - 120	<0.50	ug/g	5.8	30
9796400	Acid Extractable Lead (Pb)	2024/11/30	100	75 - 125	97	80 - 120	<1.0	ug/g	4.5	30
9796400	Acid Extractable Mercury (Hg)	2024/11/30	101	75 - 125	98	80 - 120	<0.050	ug/g	NC	30
9796400	Acid Extractable Molybdenum (Mo)	2024/11/30	98	75 - 125	95	80 - 120	<0.50	ug/g	NC	30
9796400	Acid Extractable Nickel (Ni)	2024/11/30	106	75 - 125	101	80 - 120	<0.50	ug/g	1.7	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9796400	Acid Extractable Selenium (Se)	2024/11/30	103	75 - 125	102	80 - 120	<0.50	ug/g	NC	30
9796400	Acid Extractable Silver (Ag)	2024/11/30	101	75 - 125	97	80 - 120	<0.20	ug/g	NC	30
9796400	Acid Extractable Thallium (Tl)	2024/11/30	104	75 - 125	102	80 - 120	<0.050	ug/g	NC	30
9796400	Acid Extractable Uranium (U)	2024/11/30	105	75 - 125	102	80 - 120	<0.050	ug/g	6.9	30
9796400	Acid Extractable Vanadium (V)	2024/11/30	107	75 - 125	101	80 - 120	<5.0	ug/g	0.54	30
9796400	Acid Extractable Zinc (Zn)	2024/11/30	106	75 - 125	103	80 - 120	<5.0	ug/g	4.4	30
9796519	Acid Extractable Antimony (Sb)	2024/11/30	101	75 - 125	106	80 - 120	<0.20	ug/g	NC	30
9796519	Acid Extractable Arsenic (As)	2024/11/30	105	75 - 125	104	80 - 120	<1.0	ug/g	1.6	30
9796519	Acid Extractable Barium (Ba)	2024/11/30	95	75 - 125	96	80 - 120	<0.50	ug/g	2.1	30
9796519	Acid Extractable Beryllium (Be)	2024/11/30	98	75 - 125	100	80 - 120	<0.20	ug/g	NC	30
9796519	Acid Extractable Boron (B)	2024/11/30	99	75 - 125	93	80 - 120	<5.0	ug/g	5.5	30
9796519	Acid Extractable Cadmium (Cd)	2024/11/30	99	75 - 125	100	80 - 120	<0.10	ug/g	7.0	30
9796519	Acid Extractable Chromium (Cr)	2024/11/30	106	75 - 125	98	80 - 120	<1.0	ug/g	11	30
9796519	Acid Extractable Cobalt (Co)	2024/11/30	101	75 - 125	100	80 - 120	<0.10	ug/g	2.0	30
9796519	Acid Extractable Copper (Cu)	2024/11/30	NC	75 - 125	98	80 - 120	<0.50	ug/g	2.6	30
9796519	Acid Extractable Lead (Pb)	2024/11/30	96	75 - 125	99	80 - 120	<1.0	ug/g	0.43	30
9796519	Acid Extractable Mercury (Hg)	2024/11/30	97	75 - 125	103	80 - 120	<0.050	ug/g	NC	30
9796519	Acid Extractable Molybdenum (Mo)	2024/11/30	101	75 - 125	98	80 - 120	<0.50	ug/g	1.5	30
9796519	Acid Extractable Nickel (Ni)	2024/11/30	103	75 - 125	101	80 - 120	<0.50	ug/g	4.5	30
9796519	Acid Extractable Selenium (Se)	2024/11/30	103	75 - 125	104	80 - 120	<0.50	ug/g	NC	30
9796519	Acid Extractable Silver (Ag)	2024/11/30	97	75 - 125	100	80 - 120	<0.20	ug/g	NC	30
9796519	Acid Extractable Thallium (Tl)	2024/11/30	98	75 - 125	104	80 - 120	<0.050	ug/g	8.0	30
9796519	Acid Extractable Uranium (U)	2024/11/30	102	75 - 125	104	80 - 120	<0.050	ug/g	0.17	30
9796519	Acid Extractable Vanadium (V)	2024/11/30	104	75 - 125	99	80 - 120	<5.0	ug/g	2.0	30
9796519	Acid Extractable Zinc (Zn)	2024/11/30	NC	75 - 125	99	80 - 120	<5.0	ug/g	3.3	30
9796552	Acid Extractable Antimony (Sb)	2024/11/29	73 (2)	75 - 125	104	80 - 120	<0.20	ug/g	1.0	30
9796552	Acid Extractable Arsenic (As)	2024/11/29	99	75 - 125	103	80 - 120	<1.0	ug/g	3.2	30
9796552	Acid Extractable Barium (Ba)	2024/11/29	NC	75 - 125	94	80 - 120	<0.50	ug/g	3.0	30
9796552	Acid Extractable Beryllium (Be)	2024/11/29	103	75 - 125	99	80 - 120	<0.20	ug/g	2.6	30
9796552	Acid Extractable Boron (B)	2024/11/29	92	75 - 125	99	80 - 120	<5.0	ug/g	3.7	30
9796552	Acid Extractable Cadmium (Cd)	2024/11/29	100	75 - 125	98	80 - 120	<0.10	ug/g	7.4	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9796552	Acid Extractable Chromium (Cr)	2024/11/29	96	75 - 125	96	80 - 120	<1.0	ug/g	0.69	30
9796552	Acid Extractable Cobalt (Co)	2024/11/29	94	75 - 125	97	80 - 120	<0.10	ug/g	2.1	30
9796552	Acid Extractable Copper (Cu)	2024/11/29	NC	75 - 125	97	80 - 120	<0.50	ug/g	0.15	30
9796552	Acid Extractable Lead (Pb)	2024/11/29	100	75 - 125	98	80 - 120	<1.0	ug/g	2.2	30
9796552	Acid Extractable Mercury (Hg)	2024/11/29	104	75 - 125	101	80 - 120	<0.050	ug/g		
9796552	Acid Extractable Molybdenum (Mo)	2024/11/29	92	75 - 125	92	80 - 120	<0.50	ug/g	1.1	30
9796552	Acid Extractable Nickel (Ni)	2024/11/29	NC	75 - 125	99	80 - 120	<0.50	ug/g	3.6	30
9796552	Acid Extractable Selenium (Se)	2024/11/29	100	75 - 125	102	80 - 120	<0.50	ug/g	NC	30
9796552	Acid Extractable Silver (Ag)	2024/11/29	97	75 - 125	94	80 - 120	<0.20	ug/g	NC	30
9796552	Acid Extractable Thallium (Tl)	2024/11/29	100	75 - 125	99	80 - 120	<0.050	ug/g	5.1	30
9796552	Acid Extractable Uranium (U)	2024/11/29	104	75 - 125	101	80 - 120	<0.050	ug/g	0.35	30
9796552	Acid Extractable Vanadium (V)	2024/11/29	NC	75 - 125	98	80 - 120	<5.0	ug/g	3.1	30
9796552	Acid Extractable Zinc (Zn)	2024/11/29	NC	75 - 125	103	80 - 120	<5.0	ug/g	1.5	30
9796691	Conductivity	2024/11/29			100	90 - 110	<0.002	mS/cm	0.18	10
9796806	Available (CaCl2) pH	2024/11/29			100	97 - 103			0.46	N/A
9796812	Available (CaCl2) pH	2024/11/29			100	97 - 103			0.71	N/A
9797043	1-Methylnaphthalene	2024/11/30	89	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
9797043	2-Methylnaphthalene	2024/11/30	88	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
9797043	Acenaphthene	2024/11/30	111	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
9797043	Acenaphthylene	2024/11/30	101	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
9797043	Anthracene	2024/11/30	96	50 - 130	103	50 - 130	<0.0050	ug/g	25	40
9797043	Benzo(a)anthracene	2024/11/30	102	50 - 130	97	50 - 130	<0.0050	ug/g	118 (3)	40
9797043	Benzo(a)pyrene	2024/11/30	101	50 - 130	95	50 - 130	<0.0050	ug/g	164 (3)	40
9797043	Benzo(b/j)fluoranthene	2024/11/30	87	50 - 130	100	50 - 130	<0.0050	ug/g	163 (3)	40
9797043	Benzo(g,h,i)perylene	2024/11/30	98	50 - 130	84	50 - 130	<0.0050	ug/g	162 (3)	40
9797043	Benzo(k)fluoranthene	2024/11/30	101	50 - 130	94	50 - 130	<0.0050	ug/g	134 (3)	40
9797043	Chrysene	2024/11/30	95	50 - 130	94	50 - 130	<0.0050	ug/g	128 (3)	40
9797043	Dibenzo(a,h)anthracene	2024/11/30	97	50 - 130	71	50 - 130	<0.0050	ug/g	125 (3)	40
9797043	Fluoranthene	2024/11/30	91	50 - 130	98	50 - 130	<0.0050	ug/g	119 (3)	40
9797043	Fluorene	2024/11/30	93	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
9797043	Indeno(1,2,3-cd)pyrene	2024/11/30	109	50 - 130	94	50 - 130	<0.0050	ug/g	169 (3)	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9797043	Naphthalene	2024/11/30	79	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
9797043	Phenanthrene	2024/11/30	86	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
9797043	Pyrene	2024/11/30	95	50 - 130	100	50 - 130	<0.0050	ug/g	135 (3)	40
9799388	F4G-sg (Grav. Heavy Hydrocarbons)	2024/12/01	106	65 - 135	102	65 - 135	<100	ug/g	0	50
9823441	Moisture	2024/12/12							2.2	20
9825205	Hot Water Ext. Boron (B)	2024/12/13	101	75 - 125	100	75 - 125	<0.050	ug/g	0.072	40
9825245	Conductivity	2024/12/13			103	90 - 110	<0.002	mS/cm	8.5	10
9825328	WAD Cyanide (Free)	2024/12/13	92	75 - 125	97	80 - 120	<0.01	ug/g	NC	35
9825595	Available (CaCl2) pH	2024/12/13			100	97 - 103			0.29	N/A
9825827	Chromium (VI)	2024/12/13	41 (1)	70 - 130	91	80 - 120	<0.18	ug/g	NC	35

N/A = Not Applicable

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

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

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

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

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

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

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

(1) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was reanalyzed with the same results.

(2) Matrix Spike exceeds acceptance limits, probable matrix interference

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

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

Louise Harding, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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C4AL466
2024/11/25 17:56

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

CHAIN OF CUSTODY RECORD

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: DS Consultants	Company Name: DS Consultants	Quotation #:	[x] Regular TAT (5-7 days) Most analyses
Contact Name: Accounts Payable	Contact Name: Marina Nadj	P.O. #/ AFE#: 24-330-100	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJ
Address: 6221 Hwy 7, Unit 16	Address:	Project #:	Rush TAT (Surcharges will be applied)
Phone: 905-264-9393 Fax:	Phone: Fax:	Site Location: Elm	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Email: accounting@dsconsultants.ca	Email: mnadj@dsconsultants.ca	Site #:	Date Required:
		Site Location Province: ON	Rush Confirmation #:
		Sampled By: MN	

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

Regulation 153: [ ] Table 1 [x] Res/Park [ ] Med/ Fine; [ ] Table 2 [ ] Ind/Comm [x] Coarse; [x] Table 3 [ ] Agri/ Other; [ ] Table ____; FOR RSC (PLEASE CIRCLE) (Y) N

Other Regulations: [ ] CCME [ ] Sanitary Sewer Bylaw; [ ] MISA [ ] Storm Sewer Bylaw; [ ] PWQO Region ____; [ ] Other (Specify) ____; [ ] REG 558 (MIN. 3 DAY TAT REQUIRED); [ ] REG 406 Table ____

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

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

LABORATORY USE ONLY: CUSTODY SEAL Y / N (Present / Intact); COOLER TEMPERATURE: Y / Y / 3/1/3; COOLING MEDIA PRESENT: (Y) / N

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	PAHs	HOLD- DO NOT ANALYZE	COMMENTS
1	MW24-1 SS2	2024/11/22	Am	soil	3			✓	✓						limited sample
2	MW24-1 SS4				2					✓			✓		
3	MW24-1 SS5				2					✓			✓		
4	MW24-1 SS9				3			✓	✓						
5	BH24-2 SS2				3		✓	✓		✓			✓		limited sample
6	BH24-2 SS3				1		✓	✓		✓			✓		limited sample
7	BH24-3 SS2				4		✓	✓		✓			✓		limited sample
8	BH24-3 SS6				1					✓					
9	QAQC-1				3			✓	✓						
10	BH24-4 SS2				3		✓	✓							

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:M
MN	2024/11/22	17:53	[signature]	2024/11/25	17:56

NONT-2024-11-5290

C4AL466
2024/11/25 17:56

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Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

CHAIN OF CUSTODY RECORD

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: DS Consultants	Company Name: DS Consultants	Quotation #:	[x] Regular TAT (5-7 days) Most analyses
Contact Name: Accounts Payable	Contact Name: Marina Nadj	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJ
Address: 6221 Hwy 7, Unit 16	Address:	Project #: 24-330-100	Rush TAT (Surcharges will be applied)
Phone: 905-264-9393 Fax:	Phone: Fax:	Site Location:	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Email: accounting@dsconsultants.ca	Email: mnadj@dsconsultants.ca	Site #: Elm	Date Required:
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY		Site Location Province: ST	Rush Confirmation #:
		Sampled By: MN	

Regulation 153
[ ] Table 1 [x] Res/Park [ ] Med/ Fine
[ ] Table 2 [ ] Ind/Comm [x] Coarse
[x] Table 3 [ ] Agri/ Other
[ ] Table ____
FOR RSC (PLEASE CIRCLE) (Y) / N

Other Regulations
[ ] CCME [ ] Sanitary Sewer Bylaw
[ ] MISA [ ] Storm Sewer Bylaw
[ ] PWQO Region ____
[ ] Other (Specify) ____
[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)
[ ] REG 406 Table ____

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

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

Analysis Requested

LABORATORY USE ONLY
CUSTODY SEAL Y / N | COOLER TEMPERATURE
Present | Intact
COOLING MEDIA PRESENT: Y / N

	SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	PAHs	HOLD- DO NOT ANALYZE	COMMENTS
1	BH24-4 SS3	2024/11/22	AM	Soil	2					✓			✓		
2	BH24-4 SS6	2024/11/22	↓	↓	1						✓				
3															
4															
5															
6															
7															
8															
9															
10															

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV JOB #
MN	2024/11/22	17:53	SEE PAGE 1			

Exceedance Summary Table – Reg153/04 T2-Soil/Res-C

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW24-1 SS4	AJXY20-01	Acid Extractable Arsenic (As)	18	37	1.0	ug/g
MW24-1 SS4	AJXY20-01	Acid Extractable Barium (Ba)	390	490	0.50	ug/g
MW24-1 SS4	AJXY20-01	Acid Extractable Cadmium (Cd)	1.2	2.2	0.10	ug/g
MW24-1 SS4	AJXY20-01	Acid Extractable Lead (Pb)	120	200	1.0	ug/g
MW24-1 SS4	AJXY20-01	Sodium Adsorption Ratio	5.0	5.1		N/A
MW24-1 SS4	AJXY20-01	Acid Extractable Zinc (Zn)	340	390	5.0	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Arsenic (As)	18	39	1.0	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Barium (Ba)	390	680	0.50	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Cadmium (Cd)	1.2	2.6	0.10	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Lead (Pb)	120	220	1.0	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Zinc (Zn)	340	440	5.0	ug/g
BH24-3 SS2	AJXY25-01	Acid Extractable Arsenic (As)	18	22	1.0	ug/g
BH24-3 SS2	AJXY25-01	Conductivity	0.7	1.1	0.002	mS/cm
BH24-3 SS2	AJXY25-01	Acid Extractable Lead (Pb)	120	150	1.0	ug/g
BH24-3 SS2	AJXY25-01	Sodium Adsorption Ratio	5.0	9.1		N/A
BH24-4 SS3	AJXY29-01	Acid Extractable Arsenic (As)	18	50	1.0	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Barium (Ba)	390	770	0.50	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Cadmium (Cd)	1.2	3.2	0.10	ug/g
BH24-4 SS3	AJXY29-01	Conductivity	0.7	2.4	0.002	mS/cm
BH24-4 SS3	AJXY29-01	Acid Extractable Copper (Cu)	140	160	0.50	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Lead (Pb)	120	1900	1.0	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Mercury (Hg)	0.27	29	0.25	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Selenium (Se)	2.4	6.5	0.50	ug/g
BH24-4 SS3	AJXY29-01	Sodium Adsorption Ratio	5.0	10		N/A
BH24-4 SS3	AJXY29-01	Acid Extractable Zinc (Zn)	340	620	5.0	ug/g

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

Exceedance Summary Table – Reg153/04 T3-Soil/Res-C

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW24-1 SS4	AJXY20-01	Acid Extractable Arsenic (As)	18	37	1.0	ug/g
MW24-1 SS4	AJXY20-01	Acid Extractable Barium (Ba)	390	490	0.50	ug/g
MW24-1 SS4	AJXY20-01	Acid Extractable Cadmium (Cd)	1.2	2.2	0.10	ug/g
MW24-1 SS4	AJXY20-01	Acid Extractable Lead (Pb)	120	200	1.0	ug/g
MW24-1 SS4	AJXY20-01	Sodium Adsorption Ratio	5.0	5.1		N/A
MW24-1 SS4	AJXY20-01	Acid Extractable Zinc (Zn)	340	390	5.0	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Arsenic (As)	18	39	1.0	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Barium (Ba)	390	680	0.50	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Cadmium (Cd)	1.2	2.6	0.10	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Lead (Pb)	120	220	1.0	ug/g
BH24-2 SS3	AJXY24-01	Acid Extractable Zinc (Zn)	340	440	5.0	ug/g
BH24-3 SS2	AJXY25-01	Acid Extractable Arsenic (As)	18	22	1.0	ug/g
BH24-3 SS2	AJXY25-01	Conductivity	0.7	1.1	0.002	mS/cm
BH24-3 SS2	AJXY25-01	Acid Extractable Lead (Pb)	120	150	1.0	ug/g

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Bureau Veritas Job #: C4AL466
Report Date: 2024/12/16

DS Consultants Limited
Client Project #: 24-330-100
Site Location: ELM STREET
Sampler Initials: MN

Exceedance Summary Table – Reg153/04 T3-Soil/Res-C

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH24-3 SS2	AJXY25-01	Sodium Adsorption Ratio	5.0	9.1		N/A
BH24-4 SS3	AJXY29-01	Acid Extractable Arsenic (As)	18	50	1.0	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Barium (Ba)	390	770	0.50	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Cadmium (Cd)	1.2	3.2	0.10	ug/g
BH24-4 SS3	AJXY29-01	Conductivity	0.7	2.4	0.002	mS/cm
BH24-4 SS3	AJXY29-01	Acid Extractable Copper (Cu)	140	160	0.50	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Lead (Pb)	120	1900	1.0	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Mercury (Hg)	0.27	29	0.25	ug/g
BH24-4 SS3	AJXY29-01	Acid Extractable Selenium (Se)	2.4	6.5	0.50	ug/g
BH24-4 SS3	AJXY29-01	Sodium Adsorption Ratio	5.0	10		N/A
BH24-4 SS3	AJXY29-01	Acid Extractable Zinc (Zn)	340	620	5.0	ug/g

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: TERRAPROBE INC
903 Barton Street
Stoney Creek, ON L8E5P5
(905) 643-7560

ATTENTION TO: Teresa Weatherhead

PROJECT: 7-18-0051-42

AGAT WORK ORDER: 21H727643

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Lab Manager

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Apr 06, 2021

PAGES (INCLUDING COVER): 19

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
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Certificate of Analysis

AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2021-03-30

DATE REPORTED: 2021-04-06

SAMPLE DESCRIPTION:				BH1 SS1	BH1 SS6	BH2 SS2	BH3 SS2	BH4 SS3	BH5 SS2		BH6 SS2
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil		Soil
DATE SAMPLED:				2021-03-25	2021-03-25	2021-03-23	2021-03-26	2021-03-26	2021-03-24		2021-03-25
Parameter	Unit	G / S	RDL	2288292	2288301	2288304	2288326	2288329	2288338	RDL	2288346
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	0.8	<0.8
Arsenic	µg/g	18	1	11	6	25	23	27	28	1	20
Barium	µg/g	390	2.0	147	106	308	243	219	368	2.0	255
Beryllium	µg/g	4	0.4	0.5	0.5	0.7	0.7	0.6	0.6	0.4	0.6
Boron	µg/g	120	5	10	11	14	12	17	12	5	8
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.29	0.58	0.34	1.18	0.82	0.39	0.10	0.40
Cadmium	µg/g	1.2	0.5	1.8	<0.5	2.1	0.9	0.8	2.0	0.5	1.5
Chromium	µg/g	160	5	34	21	34	25	20	38	5	24
Cobalt	µg/g	22	0.5	9.8	11.3	11.5	12.4	13.4	13.9	0.5	13.1
Copper	µg/g	140	1.0	19.8	24.2	41.3	32.5	50.5	35.5	1.0	74.0
Lead	µg/g	120	1	307	8	171	188	168	131	1	539
Molybdenum	µg/g	6.9	0.5	1.4	<0.5	1.5	1.1	1.1	1.6	0.5	1.3
Nickel	µg/g	100	1	20	23	41	24	25	40	1	29
Selenium	µg/g	2.4	0.8	<0.8	<0.8	0.8	<0.8	<0.8	1.1	0.8	1.5
Silver	µg/g	20	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	4.9
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
Uranium	µg/g	23	0.50	0.74	0.68	0.88	0.50	<0.50	0.75	0.50	0.83
Vanadium	µg/g	86	0.4	35.4	29.2	36.9	28.2	26.6	29.9	0.4	30.0
Zinc	µg/g	340	5	489	62	403	258	255	401	5	505
Chromium, Hexavalent	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	<0.040
Mercury	µg/g	0.27	0.10	0.32	<0.10	<0.10	<0.10	<0.10	<0.10	1.00	13.4
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	1.74	0.326	1.34	1.20	0.507	2.41	0.005	0.576
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	14.1	1.44	11.7	2.43	5.21	10.9	N/A	2.00
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.76	7.96	7.68	7.91	7.97	7.80	NA	7.64

Certified By:

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2021-03-30

DATE REPORTED: 2021-04-06

		SAMPLE DESCRIPTION:		BH6 SS5	DUP 2	DUP 3
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2021-03-25	2021-03-26	2021-03-26
Parameter	Unit	G / S	RDL	2288363	2288368	2288371
Antimony	µg/g	7.5	0.8	<0.8	0.8	<0.8
Arsenic	µg/g	18	1	5	21	36
Barium	µg/g	390	2.0	116	228	360
Beryllium	µg/g	4	0.4	0.5	0.6	0.6
Boron	µg/g	120	5	9	14	17
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.21	1.04	0.82
Cadmium	µg/g	1.2	0.5	<0.5	1.0	1.2
Chromium	µg/g	160	5	23	24	20
Cobalt	µg/g	22	0.5	11.4	11.6	16.4
Copper	µg/g	140	1.0	28.8	30.2	91.5
Lead	µg/g	120	1	19	210	141
Molybdenum	µg/g	6.9	0.5	<0.5	1.0	1.5
Nickel	µg/g	100	1	25	24	31
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8
Silver	µg/g	20	0.5	<0.5	<0.5	0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.67	0.53	0.51
Vanadium	µg/g	86	0.4	29.7	30.1	25.6
Zinc	µg/g	340	5	76	278	271
Chromium, Hexavalent	µg/g	8	0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	0.26	0.19	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.264	1.20	0.545
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	0.668	2.55	5.67
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	8.00	7.91	7.97

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AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2021-03-30

DATE REPORTED: 2021-04-06

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2288292-2288338 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

2288346 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.
Dilution required, RDL has been increased accordingly.

2288363-2288371 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2021-03-30

DATE REPORTED: 2021-04-06

		SAMPLE DESCRIPTION:		BH1 SS2	BH2 SS2	BH4 SS2	BH5 SS1	BH6 SS2	BH6 SS5	DUP 4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-03-25	2021-03-23	2021-03-26	2021-03-24	2021-03-25	2021-03-25	2021-03-26
Parameter	Unit	G / S	RDL	2288295	2288304	2288328	2288335	2288346	2288363	2288373
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	0.09
Pyrene	µg/g	78	0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.08
Benz(a)anthracene	µg/g	0.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.12
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	0.99	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	13.7	19.8	12.8	4.6	14.0	12.9	13.9
Surrogate	Unit	Acceptable Limits								
Naphthalene-d8	%	50-140		86	89	78	91	79	91	78
Acenaphthene-d10	%	50-140		82	87	68	93	80	92	79
Chrysene-d12	%	50-140		112	75	98	79	74	72	77

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2288295-2288373 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowkolof

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AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)

DATE RECEIVED: 2021-03-30

DATE REPORTED: 2021-04-06

		SAMPLE DESCRIPTION:		BH1 SS6	BH2 SS3	BH2 SS6	BH5 SS6	BH6 SS6	DUP 1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-03-25	2021-03-23	2021-03-23	2021-03-24	2021-03-25	2021-03-24
Parameter	Unit	G / S	RDL	2288301	2288319	2288324	2288342	2288365	2288366
F1 (C6 - C10)	µg/g	55	5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	98	10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	300	50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	2800	50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	2800	50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	13.3	19.6	13.6	12.6	12.4	12.8
Surrogate	Unit	Acceptable Limits							
Toluene-d8	% Recovery	50-140		95	118	116	108	116	104
Terphenyl	%	60-140		69	91	81	77	85	769

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2288301-2288366 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2021-03-30

DATE REPORTED: 2021-04-06

		SAMPLE DESCRIPTION:		BH1 SS2	BH6 SS2
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2021-03-25	2021-03-25
Parameter	Unit	G / S	RDL	2288295	2288346
F1 (C6 - C10)	µg/g	55	5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5
F2 (C10 to C16)	µg/g	98	10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10
F3 (C16 to C34)	µg/g	300	50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50
F4 (C34 to C50)	µg/g	2800	50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	2800	50	NA	NA
Moisture Content	%		0.1	13.7	14.0
Surrogate	Unit	Acceptable Limits			
Toluene-d8	% Recovery	50-140		111	109
Terphenyl	%	60-140		75	72

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2288295-2288346 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2021-03-30

DATE REPORTED: 2021-04-06

		SAMPLE DESCRIPTION:		BH1 SS2	BH1 SS6	BH2 SS3	BH2 SS6	BH5 SS6	BH6 SS2	BH6 SS6	DUP 1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-03-25	2021-03-25	2021-03-23	2021-03-23	2021-03-24	2021-03-25	2021-03-25	2021-03-24
Parameter	Unit	G / S	RDL	2288295	2288301	2288319	2288324	2288342	2288346	2288365	2288366
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.084	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.47	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	1.9	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.38	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.21	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.061	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	1.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	1.7	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.25	<0.05
Dibromochloromethane	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	0.28	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.058	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2021-03-30

DATE REPORTED: 2021-04-06

		SAMPLE DESCRIPTION:		BH1 SS2	BH1 SS6	BH2 SS3	BH2 SS6	BH5 SS6	BH6 SS2	BH6 SS6	DUP 1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2021-03-25	2021-03-25	2021-03-23	2021-03-23	2021-03-24	2021-03-25	2021-03-25	2021-03-24
Parameter	Unit	G / S	RDL	2288295	2288301	2288319	2288324	2288342	2288346	2288365	2288366
Bromoform	ug/g	0.27	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	0.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	4.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	1.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	3.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	2.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	13.7	13.3	19.6	13.6	12.6	14.0	12.4	12.8
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	50-140		94	98	96	96	98	97	96	96
4-Bromofluorobenzene	% Recovery	50-140		100	92	100	90	102	100	100	90

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2288295-2288366 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Exceedance Summary

AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
2288292	BH1 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Cadmium	µg/g	1.2	1.8
2288292	BH1 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.7	1.74
2288292	BH1 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	307
2288292	BH1 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Mercury	µg/g	0.27	0.32
2288292	BH1 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	14.1
2288292	BH1 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Zinc	µg/g	340	489
2288304	BH2 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	25
2288304	BH2 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Cadmium	µg/g	1.2	2.1
2288304	BH2 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.7	1.34
2288304	BH2 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	171
2288304	BH2 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	11.7
2288304	BH2 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Zinc	µg/g	340	403
2288326	BH3 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	23
2288326	BH3 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.7	1.20
2288326	BH3 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	188
2288329	BH4 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	27
2288329	BH4 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	168
2288329	BH4 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.	N/A	5	5.21
2288338	BH5 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	28
2288338	BH5 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Cadmium	µg/g	1.2	2.0
2288338	BH5 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.7	2.41
2288338	BH5 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	131
2288338	BH5 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	10.9
2288338	BH5 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Zinc	µg/g	340	401
2288346	BH6 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	20
2288346	BH6 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Cadmium	µg/g	1.2	1.5
2288346	BH6 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	539
2288346	BH6 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Mercury	µg/g	0.27	13.4
2288346	BH6 SS2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Zinc	µg/g	340	505
2288368	DUP 2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	21
2288368	DUP 2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.7	1.20
2288368	DUP 2	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	210
2288371	DUP 3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	36
2288371	DUP 3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	141
2288371	DUP 3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	5.67

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H727643
ATTENTION TO: Teresa Weatherhead
SAMPLED BY:JM

Soil Analysis

RPT Date: Apr 06, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	2288292	2288292	<0.8	<0.8	NA	< 0.8	104%	70%	130%	100%	80%	120%	82%	70%	130%
Arsenic	2288292	2288292	11	11	0.0%	< 1	102%	70%	130%	105%	80%	120%	120%	70%	130%
Barium	2288292	2288292	147	153	4.0%	< 2.0	100%	70%	130%	100%	80%	120%	123%	70%	130%
Beryllium	2288292	2288292	0.5	0.6	NA	< 0.4	92%	70%	130%	111%	80%	120%	91%	70%	130%
Boron	2288292	2288292	10	12	NA	< 5	91%	70%	130%	98%	80%	120%	89%	70%	130%
Boron (Hot Water Soluble)	2288292	2288292	0.29	0.32	NA	< 0.10	94%	60%	140%	101%	70%	130%	104%	60%	140%
Cadmium	2288292	2288292	1.8	1.7	NA	< 0.5	87%	70%	130%	103%	80%	120%	107%	70%	130%
Chromium	2288292	2288292	34	33	3.0%	< 5	92%	70%	130%	96%	80%	120%	92%	70%	130%
Cobalt	2288292	2288292	9.8	10.1	3.0%	< 0.5	97%	70%	130%	113%	80%	120%	105%	70%	130%
Copper	2288292	2288292	19.8	20.7	4.4%	< 1.0	92%	70%	130%	105%	80%	120%	99%	70%	130%
Lead	2288292	2288292	307	256	18.1%	< 1	99%	70%	130%	107%	80%	120%	84%	70%	130%
Molybdenum	2288292	2288292	1.4	1.6	NA	< 0.5	99%	70%	130%	99%	80%	120%	112%	70%	130%
Nickel	2288292	2288292	20	20	0.0%	< 1	98%	70%	130%	113%	80%	120%	101%	70%	130%
Selenium	2288292	2288292	<0.8	0.8	NA	< 0.8	100%	70%	130%	107%	80%	120%	121%	70%	130%
Silver	2288292	2288292	<0.5	<0.5	NA	< 0.5	98%	70%	130%	111%	80%	120%	101%	70%	130%
Thallium	2288292	2288292	<0.5	<0.5	NA	< 0.5	99%	70%	130%	109%	80%	120%	109%	70%	130%
Uranium	2288292	2288292	0.74	0.76	NA	< 0.50	107%	70%	130%	116%	80%	120%	118%	70%	130%
Vanadium	2288292	2288292	35.4	35.4	0.0%	< 0.4	96%	70%	130%	106%	80%	120%	116%	70%	130%
Zinc	2288292	2288292	489	497	1.6%	< 5	108%	70%	130%	112%	80%	120%	98%	70%	130%
Chromium, Hexavalent	2288009		<0.2	<0.2	NA	< 0.2	92%	70%	130%	97%	80%	120%	88%	70%	130%
Cyanide, Free	2288292	2288292	<0.040	<0.040	NA	< 0.040	103%	70%	130%	96%	80%	120%	101%	70%	130%
Mercury	2288292	2288292	0.32	0.32	NA	< 0.10	103%	70%	130%	114%	80%	120%	113%	70%	130%
Electrical Conductivity (2:1)	2288292	2288292	1.74	1.99	13.4%	< 0.005	117%	80%	120%	NA			NA		
Sodium Adsorption Ratio (2:1) (Calc.)	2288292	2288292	14.1	13.7	2.9%	NA	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	2288292	2288292	7.76	7.92	2.0%	NA	100%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By: Amanjot Bhela

CHARTERED CHEMIST AMANJOT BHELA — ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H727643
ATTENTION TO: Teresa Weatherhead
SAMPLED BY:JM

Trace Organics Analysis

RPT Date: Apr 06, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	2288033		< 5	< 5	NA	< 5	114%	60%	140%	102%	60%	140%	97%	60%	140%
F2 (C10 to C16)	2288436		< 10	< 10	NA	< 10	104%	60%	140%	115%	60%	140%	92%	60%	140%
F3 (C16 to C34)	2288436		< 50	< 50	NA	< 50	99%	60%	140%	91%	60%	140%	70%	60%	140%
F4 (C34 to C50)	2288436		< 50	< 50	NA	< 50	98%	60%	140%	90%	60%	140%	73%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	2288027		<0.05	<0.05	NA	< 0.05	118%	50%	140%	78%	50%	140%	93%	50%	140%
Acenaphthylene	2288027		<0.05	<0.05	NA	< 0.05	109%	50%	140%	84%	50%	140%	108%	50%	140%
Acenaphthene	2288027		<0.05	<0.05	NA	< 0.05	110%	50%	140%	75%	50%	140%	115%	50%	140%
Fluorene	2288027		<0.05	<0.05	NA	< 0.05	114%	50%	140%	84%	50%	140%	114%	50%	140%
Phenanthrene	2288027		<0.05	0.06	NA	< 0.05	118%	50%	140%	75%	50%	140%	102%	50%	140%
Anthracene	2288027		<0.05	<0.05	NA	< 0.05	116%	50%	140%	89%	50%	140%	116%	50%	140%
Fluoranthene	2288027		0.06	0.09	NA	< 0.05	105%	50%	140%	85%	50%	140%	68%	50%	140%
Pyrene	2288027		0.05	0.07	NA	< 0.05	96%	50%	140%	84%	50%	140%	71%	50%	140%
Benz(a)anthracene	2288027		<0.05	<0.05	NA	< 0.05	64%	50%	140%	75%	50%	140%	84%	50%	140%
Chrysene	2288027		<0.05	<0.05	NA	< 0.05	65%	50%	140%	85%	50%	140%	69%	50%	140%
Benzo(b)fluoranthene	2288027		<0.05	0.07	NA	< 0.05	97%	50%	140%	84%	50%	140%	82%	50%	140%
Benzo(k)fluoranthene	2288027		<0.05	<0.05	NA	< 0.05	101%	50%	140%	87%	50%	140%	98%	50%	140%
Benzo(a)pyrene	2288027		<0.05	<0.05	NA	< 0.05	83%	50%	140%	89%	50%	140%	89%	50%	140%
Indeno(1,2,3-cd)pyrene	2288027		<0.05	<0.05	NA	< 0.05	63%	50%	140%	86%	50%	140%	73%	50%	140%
Dibenz(a,h)anthracene	2288027		<0.05	<0.05	NA	< 0.05	74%	50%	140%	85%	50%	140%	74%	50%	140%
Benzo(g,h,i)perylene	2288027		<0.05	<0.05	NA	< 0.05	75%	50%	140%	84%	50%	140%	83%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	2284494		<0.05	<0.05	NA	< 0.05	100%	50%	140%	109%	50%	140%	86%	50%	140%
Vinyl Chloride	2284494		<0.02	<0.02	NA	< 0.02	87%	50%	140%	88%	50%	140%	89%	50%	140%
Bromomethane	2284494		<0.05	<0.05	NA	< 0.05	82%	50%	140%	80%	50%	140%	81%	50%	140%
Trichlorofluoromethane	2284494		<0.05	<0.05	NA	< 0.05	85%	50%	140%	90%	50%	140%	96%	50%	140%
Acetone	2284494		<0.50	<0.50	NA	< 0.50	110%	50%	140%	99%	50%	140%	100%	50%	140%
1,1-Dichloroethylene	2284494		<0.05	<0.05	NA	< 0.05	82%	50%	140%	84%	60%	130%	97%	50%	140%
Methylene Chloride	2284494		<0.05	<0.05	NA	< 0.05	84%	50%	140%	98%	60%	130%	97%	50%	140%
Trans- 1,2-Dichloroethylene	2284494		<0.05	<0.05	NA	< 0.05	80%	50%	140%	85%	60%	130%	113%	50%	140%
Methyl tert-butyl Ether	2284494		<0.05	<0.05	NA	< 0.05	116%	50%	140%	105%	60%	130%	95%	50%	140%
1,1-Dichloroethane	2284494		<0.02	<0.02	NA	< 0.02	106%	50%	140%	109%	60%	130%	108%	50%	140%
Methyl Ethyl Ketone	2284494		<0.50	<0.50	NA	< 0.50	100%	50%	140%	81%	50%	140%	103%	50%	140%
Cis- 1,2-Dichloroethylene	2284494		<0.02	<0.02	NA	< 0.02	85%	50%	140%	85%	60%	130%	90%	50%	140%
Chloroform	2284494		<0.04	<0.04	NA	< 0.04	103%	50%	140%	108%	60%	130%	92%	50%	140%
1,2-Dichloroethane	2284494		<0.03	<0.03	NA	< 0.03	102%	50%	140%	118%	60%	130%	108%	50%	140%
1,1,1-Trichloroethane	2284494		<0.05	<0.05	NA	< 0.05	96%	50%	140%	109%	60%	130%	89%	50%	140%
Carbon Tetrachloride	2284494		<0.05	<0.05	NA	< 0.05	84%	50%	140%	88%	60%	130%	92%	50%	140%

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Quality Assurance

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

Trace Organics Analysis (Continued)

RPT Date: Apr 06, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	2284494		<0.02	<0.02	NA	< 0.02	81%	50%	140%	92%	60%	130%	95%	50%	140%
1,2-Dichloropropane	2284494		<0.03	<0.03	NA	< 0.03	87%	50%	140%	96%	60%	130%	98%	50%	140%
Trichloroethylene	2284494		<0.03	<0.03	NA	< 0.03	98%	50%	140%	107%	60%	130%	99%	50%	140%
Bromodichloromethane	2284494		<0.05	<0.05	NA	< 0.05	86%	50%	140%	101%	60%	130%	91%	50%	140%
Methyl Isobutyl Ketone	2284494		<0.50	<0.50	NA	< 0.50	104%	50%	140%	93%	50%	140%	109%	50%	140%
1,1,2-Trichloroethane	2284494		<0.04	<0.04	NA	< 0.04	102%	50%	140%	105%	60%	130%	103%	50%	140%
Toluene	2284494		<0.05	<0.05	NA	< 0.05	96%	50%	140%	96%	60%	130%	99%	50%	140%
Dibromochloromethane	2284494		<0.05	<0.05	NA	< 0.05	78%	50%	140%	84%	60%	130%	94%	50%	140%
Ethylene Dibromide	2284494		<0.04	<0.04	NA	< 0.04	103%	50%	140%	108%	60%	130%	95%	50%	140%
Tetrachloroethylene	2284494		<0.05	<0.05	NA	< 0.05	109%	50%	140%	116%	60%	130%	103%	50%	140%
1,1,1,2-Tetrachloroethane	2284494		<0.04	<0.04	NA	< 0.04	99%	50%	140%	103%	60%	130%	93%	50%	140%
Chlorobenzene	2284494		<0.05	<0.05	NA	< 0.05	103%	50%	140%	105%	60%	130%	95%	50%	140%
Ethylbenzene	2284494		<0.05	<0.05	NA	< 0.05	96%	50%	140%	97%	60%	130%	112%	50%	140%
m & p-Xylene	2284494		<0.05	<0.05	NA	< 0.05	100%	50%	140%	104%	60%	130%	125%	50%	140%
Bromoform	2284494		<0.05	<0.05	NA	< 0.05	77%	50%	140%	86%	60%	130%	87%	50%	140%
Styrene	2284494		<0.05	<0.05	NA	< 0.05	95%	50%	140%	97%	60%	130%	93%	50%	140%
1,1,2,2-Tetrachloroethane	2284494		<0.05	<0.05	NA	< 0.05	110%	50%	140%	114%	60%	130%	87%	50%	140%
o-Xylene	2284494		<0.05	<0.05	NA	< 0.05	110%	50%	140%	111%	60%	130%	111%	50%	140%
1,3-Dichlorobenzene	2284494		<0.05	<0.05	NA	< 0.05	112%	50%	140%	112%	60%	130%	100%	50%	140%
1,4-Dichlorobenzene	2284494		<0.05	<0.05	NA	< 0.05	97%	50%	140%	84%	60%	130%	95%	50%	140%
1,2-Dichlorobenzene	2284494		<0.05	<0.05	NA	< 0.05	104%	50%	140%	105%	60%	130%	94%	50%	140%
n-Hexane	2284494		<0.05	<0.05	NA	< 0.05	92%	50%	140%	91%	60%	130%	92%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6036	modified from MSA PART 3, CH 14 and SM 2510 B	EC METER
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3541 and EPA 8270E	GC/MS
Acenaphthene-d10	ORG-91-5106	modified from EPA 3541 and EPA 8270E	GC/MS
Chrysene-d12	ORG-91-5106	modified from EPA 3541 and EPA 8270E	GC/MS
Moisture Content	ORG-91-5009	CCME Tier 1 Method	BALANCE
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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Method Summary

CLIENT NAME: TERRAPROBE INC
AGAT WORK ORDER: 21H727643
PROJECT: 7-18-0051-42
ATTENTION TO: Teresa Weatherhead
SAMPLING SITE:
SAMPLED BY:JM

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H727643

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:JM

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ethylbenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 21H727643

Cooler Quantity: 1 COOLER

Arrival Temperatures: 7.3 | 7.5 | 7.4
10.6 | 10.2 | 10.6

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: ICE PACKS

Report Information:

Company: Terraprobe Inc.
Contact: Stoney Creek, Ontario L8E 5P5
Address: Ph: (905) 643-7560 Fax: (905) 643-7559
Attn.: Teresa Weatherhead
tweatherhead@terraprobe.ca
Phone:

Reports to be sent to:
1. Email:
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table 2 (Indicate One)
☐ Ind/Com
☒ Res/Park
☐ Agriculture

Soil Texture (Check One)
☒ Coarse
☐ Fine

☐ Excess Soils R406
Table ____ (Indicate One)

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: 7-18-0051-42
Site Location:
Sampled By: JH
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact: Lorena Rossi
Address:
Email: lrossi@terraprobe.ca

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs, Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
BH1 SS1	Mar 25/21	AM PM	1	S			X										
BH1 SS2	↓	AM PM	3	↓					X	X		X					
BH1 SS6		AM PM	3				X		X			X					
BH2 SS2	Mar 23/21	AM PM	2				X			X							
BH2 SS3	↓	AM PM	2						X			X					
BH2 SS6		AM PM	2						X			X					
BH3 SS2	Mar 26/21	AM PM	1				X										
BH4 SS2	↓	AM PM	1							X							
BH4 SS3		AM PM	1				X										
BH5 SS1	Mar 24/21	AM PM	1							X							
BH5 SS2	↓	AM PM	1	↓			X										

Samples Relinquished By (Print Name and Sign): K. Greenman	Date: 03/30/21	Time: 13:05	Samples Received By (Print Name and Sign): Daniella Jaic	Date: MAR 30/21	Time: 1:20pm
Samples Relinquished By (Print Name and Sign): Daniella Jaic	Date: MAR 30/21	Time: 3pm	Samples Received By (Print Name and Sign): John Chypyha	Date: Mar 30	Time: 3:15
Samples Relinquished By (Print Name and Sign):	Date:	Time:	Samples Received By (Print Name and Sign): John Chypyha	Date: Mar 30	Time: 4:50

Page 1 of 2

N°: 111398

Document ID: DW 7th 1811_019

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Date Issued: August 24, 2020

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company:
Contact:
Address:
Phone:

Terraprobe Inc. 903 Barton Street, Unit 22
Stoney Creek, Ontario L8E 5P5
Ph: (905) 643-7560 **Fax:** (905) 643-7559
Attn.: Teresa Weatherhead
tweatherhead@terraprobe.ca

Reports to be sent to:
1. Email:
2. Email:

Project Information:

Project: 7-18-0051-42
Site Location:
Sampled By: J.H
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact: Lorena Rossi
Address:
Email: lrossi@terraprobe.ca

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 2 (Indicate One) — ☐ Ind/Com ☒ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine
☐ Excess Soils R406 — Table (Indicate One)
☐ Regulation 558
☐ CCME
☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other (Indicate One)

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #: 21H727643
Cooler Quantity: 4 COOLERS
Arrival Temperatures: 7.3 | 7.5 | 7.4 / 6.6 | 6.7 | 4.6
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: ICE PACKS

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs — Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
BH5 SS6	Mar 24/21	AM/PM	2	S					X			X					
BH6 SS2	Mar 25/21	AM/PM	3				X		X	X		X					
BH6 SS5	↓	AM/PM	2				X			X							
BH6 SS6		AM/PM	2						X			X					
Dup 1	Mar 24/21	AM/PM	2						X			X					
Dup 2	Mar 26/21	AM/PM	1				X										
Dup 3	↓	AM/PM	1				X										
Dup 4		AM/PM	1							X							
		AM/PM															
		AM/PM															
		AM/PM		↓													

	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign): K. Greenman	03/30/21	13:05	Daniella Jaic	MAR 30/21	1:20pm
Samples Relinquished By (Print Name and Sign): Daniella Jaic	MAR 30/21	3pm	John Chypyha	Mar 30	3:15
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign): John Chypyha	Date Mar 30	Time 4:30

Page 2 of 2
N°: 111396

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Document ID: DW-78-1511.018

Date Issued: August 24, 2020

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: TERRAPROBE INC
903 Barton Street
Stoney Creek, ON L8E5P5
(905) 643-7560

ATTENTION TO: Teresa Weatherhead

PROJECT: 7-18-0051-42

AGAT WORK ORDER: 21H728979

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Lab Manager

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Apr 09, 2021

PAGES (INCLUDING COVER): 18

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days following analysis, unless expressly agreed otherwise in writing. Please contact your Client Project Manager if you require additional sample storage time.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2021-04-01

DATE REPORTED: 2021-04-09

		SAMPLE DESCRIPTION:		BH7 SS1	BH7 SS3	BH8 SS1
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2021-03-31	2021-03-31	2021-03-31
Parameter	Unit	G / S	RDL	2297783	2297784	2297785
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	45	28	22
Barium	µg/g	390	2.0	418	119	244
Beryllium	µg/g	4	0.4	0.7	0.6	0.6
Boron	µg/g	120	5	16	36	20
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.31	0.42	0.33
Cadmium	µg/g	1.2	0.5	0.9	0.8	1.4
Chromium	µg/g	160	5	20	24	22
Cobalt	µg/g	22	0.5	9.9	11.3	9.2
Copper	µg/g	140	1.0	65.8	40.8	27.3
Lead	µg/g	120	1	509	173	117
Molybdenum	µg/g	6.9	0.5	16.5	2.3	1.9
Nickel	µg/g	100	1	25	23	25
Selenium	µg/g	2.4	0.8	<0.8	1.0	<0.8
Silver	µg/g	20	0.5	6.3	<0.5	<0.5
Thallium	µg/g	1	0.5	0.9	<0.5	<0.5
Uranium	µg/g	23	0.50	0.75	0.94	1.01
Vanadium	µg/g	86	0.4	25.8	91.4	33.2
Zinc	µg/g	340	5	255	243	368
Chromium, Hexavalent	µg/g	8	0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.538	0.408	0.902
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	4.56	2.23	5.51
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.67	7.61	7.52

Certified By:

Amanjot Bhela

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
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Certificate of Analysis

AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2021-04-01

DATE REPORTED: 2021-04-09

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2297783-2297785 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Amanjot Bhela

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AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

DATE RECEIVED: 2021-04-01

DATE REPORTED: 2021-04-09

		SAMPLE DESCRIPTION:		BH8 SS3
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2021-03-31
Parameter	Unit	G / S	RDL	2297786
Antimony	µg/g	7.5	0.8	<0.8
Arsenic	µg/g	18	1	34
Barium	µg/g	390	2.0	489
Beryllium	µg/g	4	0.4	1.0
Boron	µg/g	120	5	24
Cadmium	µg/g	1.2	0.5	2.2
Chromium	µg/g	160	5	26
Cobalt	µg/g	22	0.5	16.5
Copper	µg/g	140	1.0	55.3
Lead	µg/g	120	1	870
Molybdenum	µg/g	6.9	0.5	1.4
Nickel	µg/g	100	1	43
Selenium	µg/g	2.4	0.8	1.1
Silver	µg/g	20	0.5	<0.5
Thallium	µg/g	1	0.5	<0.5
Uranium	µg/g	23	0.50	0.76
Vanadium	µg/g	86	0.4	35.3
Zinc	µg/g	340	5	388

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

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AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2021-04-01

DATE REPORTED: 2021-04-09

		SAMPLE DESCRIPTION:		BH7 SS3	BH8 SS1
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2021-03-31	2021-03-31
Parameter	Unit	G / S	RDL	2297784	2297785
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.5	0.05	<0.05	<0.05
Chrysene	µg/g	7	0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	0.99	0.05	<0.05	<0.05
Moisture Content	%		0.1	22.3	20.3
Surrogate	Unit	Acceptable Limits			
Naphthalene-d8	%	50-140		89	81
Acenaphthene-d10	%	50-140		95	76
Chrysene-d12	%	50-140		89	73

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2297784-2297785 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)

DATE RECEIVED: 2021-04-01

DATE REPORTED: 2021-04-09

		SAMPLE DESCRIPTION:		BH8 SS3
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2021-03-31
Parameter	Unit	G / S	RDL	2297786
F1 (C6 - C10)	µg/g	55	5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5
F2 (C10 to C16)	µg/g	98	10	<10
F3 (C16 to C34)	µg/g	300	50	<50
F4 (C34 to C50)	µg/g	2800	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	2800	50	NA
Moisture Content	%		0.1	22.0
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140		93
Terphenyl	%	60-140		120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2297786 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2021-04-01

DATE REPORTED: 2021-04-09

		SAMPLE DESCRIPTION:		BH8 SS3
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2021-03-31
Parameter	Unit	G / S	RDL	2297786
Dichlorodifluoromethane	µg/g	16	0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05
Acetone	ug/g	16	0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05
Methylene Chloride	ug/g	0.1	0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.084	0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.75	0.05	<0.05
1,1-Dichloroethane	ug/g	0.47	0.02	<0.02
Methyl Ethyl Ketone	ug/g	16	0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	1.9	0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.38	0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05
Benzene	ug/g	0.21	0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03
Trichloroethylene	ug/g	0.061	0.03	<0.03
Bromodichloromethane	ug/g	1.5	0.05	<0.05
Methyl Isobutyl Ketone	ug/g	1.7	0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04
Toluene	ug/g	2.3	0.05	<0.05
Dibromochloromethane	ug/g	2.3	0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04
Tetrachloroethylene	ug/g	0.28	0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.058	0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05
Ethylbenzene	ug/g	1.1	0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2021-04-01

DATE REPORTED: 2021-04-09

		SAMPLE DESCRIPTION:		BH8 SS3
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2021-03-31
Parameter	Unit	G / S	RDL	2297786
Bromoform	ug/g	0.27	0.05	<0.05
Styrene	ug/g	0.7	0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05
o-Xylene	ug/g		0.05	<0.05
1,3-Dichlorobenzene	ug/g	4.8	0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.083	0.05	<0.05
1,2-Dichlorobenzene	ug/g	1.2	0.05	<0.05
Xylenes (Total)	ug/g	3.1	0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.05	0.04	<0.04
n-Hexane	µg/g	2.8	0.05	<0.05
Moisture Content	%		0.1	22.0
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140		94
4-Bromofluorobenzene	% Recovery	50-140		87

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils **pH range listed applies to surface soil only**
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2297786 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Exceedance Summary

AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
2297783	BH7 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	45
2297783	BH7 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Barium	µg/g	390	418
2297783	BH7 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	509
2297783	BH7 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Molybdenum	µg/g	6.9	16.5
2297784	BH7 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	28
2297784	BH7 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	173
2297784	BH7 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	91.4
2297785	BH8 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Arsenic	µg/g	18	22
2297785	BH8 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Cadmium	µg/g	1.2	1.4
2297785	BH8 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.7	0.902
2297785	BH8 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	5.51
2297785	BH8 SS1	ON T2 S RPI CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Zinc	µg/g	340	368
2297786	BH8 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals (Including Hydrides) (Soil)	Arsenic	µg/g	18	34
2297786	BH8 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals (Including Hydrides) (Soil)	Barium	µg/g	390	489
2297786	BH8 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals (Including Hydrides) (Soil)	Cadmium	µg/g	1.2	2.2
2297786	BH8 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals (Including Hydrides) (Soil)	Lead	µg/g	120	870
2297786	BH8 SS3	ON T2 S RPI CT	O. Reg. 153(511) - Metals (Including Hydrides) (Soil)	Zinc	µg/g	340	388

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H728979
ATTENTION TO: Teresa Weatherhead
SAMPLED BY:

Soil Analysis

RPT Date: Apr 09, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	2295661		<0.8	<0.8	NA	< 0.8	103%	70%	130%	104%	80%	120%	106%	70%	130%
Arsenic	2295661		5	5	0.0%	< 1	114%	70%	130%	106%	80%	120%	112%	70%	130%
Barium	2295661		74.8	67.6	10.1%	< 2.0	115%	70%	130%	106%	80%	120%	105%	70%	130%
Beryllium	2295661		0.4	0.5	NA	< 0.4	80%	70%	130%	116%	80%	120%	89%	70%	130%
Boron	2295661		9	8	NA	< 5	74%	70%	130%	109%	80%	120%	74%	70%	130%
Boron (Hot Water Soluble)	2305284		0.38	0.41	NA	< 0.10	86%	60%	140%	99%	70%	130%	104%	60%	140%
Cadmium	2295661		<0.5	<0.5	NA	< 0.5	114%	70%	130%	106%	80%	120%	109%	70%	130%
Chromium	2295661		18	18	NA	< 5	99%	70%	130%	103%	80%	120%	108%	70%	130%
Cobalt	2295661		9.9	10.6	6.8%	< 0.5	98%	70%	130%	104%	80%	120%	104%	70%	130%
Copper	2295661		25.8	27.0	4.5%	< 1.0	92%	70%	130%	113%	80%	120%	97%	70%	130%
Lead	2295661		12	12	0.0%	< 1	111%	70%	130%	106%	80%	120%	98%	70%	130%
Molybdenum	2295661		0.6	0.7	NA	< 0.5	106%	70%	130%	105%	80%	120%	108%	70%	130%
Nickel	2295661		22	24	8.7%	< 1	98%	70%	130%	109%	80%	120%	104%	70%	130%
Selenium	2295661		<0.8	<0.8	NA	< 0.8	106%	70%	130%	107%	80%	120%	112%	70%	130%
Silver	2295661		<0.5	<0.5	NA	< 0.5	113%	70%	130%	109%	80%	120%	100%	70%	130%
Thallium	2295661		<0.5	<0.5	NA	< 0.5	112%	70%	130%	110%	80%	120%	103%	70%	130%
Uranium	2295661		0.76	0.72	NA	< 0.50	120%	70%	130%	112%	80%	120%	116%	70%	130%
Vanadium	2295661		24.7	24.7	0.0%	< 0.4	98%	70%	130%	97%	80%	120%	106%	70%	130%
Zinc	2295661		54	58	7.1%	< 5	100%	70%	130%	111%	80%	120%	107%	70%	130%
Chromium, Hexavalent	2297020		<0.2	<0.2	NA	< 0.2	103%	70%	130%	89%	80%	120%	85%	70%	130%
Cyanide, Free	2297783	2297783	<0.040	<0.040	NA	< 0.040	102%	70%	130%	93%	80%	120%	91%	70%	130%
Mercury	2295661		<0.10	<0.10	NA	< 0.10	107%	70%	130%	104%	80%	120%	99%	70%	130%
Electrical Conductivity (2:1)	2299905		0.174	0.192	9.8%	< 0.005	106%	80%	120%	NA			NA		
Sodium Adsorption Ratio (2:1) (Calc.)	2305284		0.307	0.301	2.0%	N/A	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	2297784	2297784	7.61	7.61	0.0%	NA	100%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

O. Reg. 153(511) - Metals (Including Hydrides) (Soil)															
Antimony	2293575		<0.8	<0.8	NA	< 0.8	117%	70%	130%	100%	80%	120%	86%	70%	130%
Arsenic	2293575		3	3	NA	< 1	108%	70%	130%	104%	80%	120%	108%	70%	130%
Barium	2293575		41.4	41.4	0.0%	< 2.0	105%	70%	130%	100%	80%	120%	106%	70%	130%
Beryllium	2293575		<0.4	<0.4	NA	< 0.4	73%	70%	130%	87%	80%	120%	89%	70%	130%
Boron	2293575		6	7	NA	< 5	112%	70%	130%	84%	80%	120%	86%	70%	130%
Cadmium	2293575		<0.5	<0.5	NA	< 0.5	105%	70%	130%	100%	80%	120%	102%	70%	130%
Chromium	2293575		18	20	NA	< 5	92%	70%	130%	97%	80%	120%	114%	70%	130%
Cobalt	2293575		4.4	4.3	2.0%	< 0.5	91%	70%	130%	97%	80%	120%	103%	70%	130%
Copper	2293575		11.2	11.1	1.7%	< 1.0	87%	70%	130%	103%	80%	120%	91%	70%	130%

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Quality Assurance

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

Soil Analysis (Continued)

RPT Date: Apr 09, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Lead	2293575		4	4	NA	< 1	100%	70%	130%	98%	80%	120%	90%	70%	130%
Molybdenum	2293575		1.3	1.4	NA	< 0.5	98%	70%	130%	97%	80%	120%	103%	70%	130%
Nickel	2293575		9	9	1.9%	< 1	91%	70%	130%	99%	80%	120%	99%	70%	130%
Selenium	2293575		<0.8	<0.8	NA	< 0.8	99%	70%	130%	104%	80%	120%	111%	70%	130%
Silver	2293575		<0.5	<0.5	NA	< 0.5	105%	70%	130%	99%	80%	120%	92%	70%	130%
Thallium	2293575		<0.5	<0.5	NA	< 0.5	97%	70%	130%	102%	80%	120%	98%	70%	130%
Uranium	2293575		<0.50	<0.50	NA	< 0.50	108%	70%	130%	105%	80%	120%	106%	70%	130%
Vanadium	2293575		19.4	19.0	1.8%	< 0.4	91%	70%	130%	93%	80%	120%	110%	70%	130%
Zinc	2293575		29	29	0.6%	< 5	96%	70%	130%	102%	80%	120%	107%	70%	130%

Comments: NA Signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:

Amanjot Bhela

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
AMANJOT BHELA
CHEMIST

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H728979
ATTENTION TO: Teresa Weatherhead
SAMPLED BY:

Trace Organics Analysis

RPT Date: Apr 09, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	2293383		<0.05	<0.05	NA	< 0.05	113%	50%	140%	113%	50%	140%	89%	50%	140%
Acenaphthylene	2293383		<0.05	<0.05	NA	< 0.05	104%	50%	140%	116%	50%	140%	99%	50%	140%
Acenaphthene	2293383		<0.05	<0.05	NA	< 0.05	108%	50%	140%	111%	50%	140%	96%	50%	140%
Fluorene	2293383		<0.05	<0.05	NA	< 0.05	98%	50%	140%	111%	50%	140%	96%	50%	140%
Phenanthrene	2293383		<0.05	<0.05	NA	< 0.05	103%	50%	140%	90%	50%	140%	82%	50%	140%
Anthracene	2293383		<0.05	<0.05	NA	< 0.05	101%	50%	140%	91%	50%	140%	103%	50%	140%
Fluoranthene	2293383		<0.05	<0.05	NA	< 0.05	113%	50%	140%	100%	50%	140%	107%	50%	140%
Pyrene	2293383		<0.05	<0.05	NA	< 0.05	116%	50%	140%	116%	50%	140%	102%	50%	140%
Benz(a)anthracene	2293383		<0.05	<0.05	NA	< 0.05	91%	50%	140%	71%	50%	140%	77%	50%	140%
Chrysene	2293383		<0.05	<0.05	NA	< 0.05	110%	50%	140%	111%	50%	140%	95%	50%	140%
Benzo(b)fluoranthene	2293383		<0.05	<0.05	NA	< 0.05	65%	50%	140%	91%	50%	140%	83%	50%	140%
Benzo(k)fluoranthene	2293383		<0.05	<0.05	NA	< 0.05	96%	50%	140%	112%	50%	140%	102%	50%	140%
Benzo(a)pyrene	2293383		<0.05	<0.05	NA	< 0.05	68%	50%	140%	87%	50%	140%	83%	50%	140%
Indeno(1,2,3-cd)pyrene	2293383		<0.05	<0.05	NA	< 0.05	60%	50%	140%	88%	50%	140%	75%	50%	140%
Dibenz(a,h)anthracene	2293383		<0.05	<0.05	NA	< 0.05	73%	50%	140%	85%	50%	140%	85%	50%	140%
Benzo(g,h,i)perylene	2293383		<0.05	<0.05	NA	< 0.05	69%	50%	140%	80%	50%	140%	87%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)															
F1 (C6 - C10)	2316029		<5	<5	NA	< 5	99%	60%	140%	100%	60%	140%	103%	60%	140%
F2 (C10 to C16)	2295541		< 10	< 10	NA	< 10	100%	60%	140%	95%	60%	140%	97%	60%	140%
F3 (C16 to C34)	2295541		< 50	< 50	NA	< 50	108%	60%	140%	111%	60%	140%	108%	60%	140%
F4 (C34 to C50)	2295541		< 50	< 50	NA	< 50	99%	60%	140%	91%	60%	140%	94%	60%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	2310402		<0.05	<0.05	NA	< 0.05	99%	50%	140%	108%	50%	140%	103%	50%	140%
Vinyl Chloride	2310402		<0.02	<0.02	NA	< 0.02	85%	50%	140%	74%	50%	140%	86%	50%	140%
Bromomethane	2310402		<0.05	<0.05	NA	< 0.05	77%	50%	140%	71%	50%	140%	73%	50%	140%
Trichlorofluoromethane	2310402		<0.05	<0.05	NA	< 0.05	76%	50%	140%	78%	50%	140%	81%	50%	140%
Acetone	2310402		<0.50	<0.50	NA	< 0.50	78%	50%	140%	100%	50%	140%	86%	50%	140%
1,1-Dichloroethylene	2310402		<0.05	<0.05	NA	< 0.05	95%	50%	140%	79%	60%	130%	74%	50%	140%
Methylene Chloride	2310402		<0.05	<0.05	NA	< 0.05	85%	50%	140%	93%	60%	130%	86%	50%	140%
Trans- 1,2-Dichloroethylene	2310402		<0.05	<0.05	NA	< 0.05	73%	50%	140%	71%	60%	130%	108%	50%	140%
Methyl tert-butyl Ether	2310402		<0.05	<0.05	NA	< 0.05	71%	50%	140%	94%	60%	130%	84%	50%	140%
1,1-Dichloroethane	2310402		<0.02	<0.02	NA	< 0.02	73%	50%	140%	93%	60%	130%	84%	50%	140%
Methyl Ethyl Ketone	2310402		<0.50	<0.50	NA	< 0.50	83%	50%	140%	88%	50%	140%	84%	50%	140%
Cis- 1,2-Dichloroethylene	2310402		<0.02	<0.02	NA	< 0.02	85%	50%	140%	81%	60%	130%	76%	50%	140%
Chloroform	2310402		<0.04	<0.04	NA	< 0.04	77%	50%	140%	99%	60%	130%	95%	50%	140%
1,2-Dichloroethane	2310402		<0.03	<0.03	NA	< 0.03	88%	50%	140%	110%	60%	130%	107%	50%	140%
1,1,1-Trichloroethane	2310402		<0.05	<0.05	NA	< 0.05	86%	50%	140%	77%	60%	130%	71%	50%	140%
Carbon Tetrachloride	2310402		<0.05	<0.05	NA	< 0.05	70%	50%	140%	97%	60%	130%	91%	50%	140%

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H728979
ATTENTION TO: Teresa Weatherhead
SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Apr 09, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	2310402		<0.02	<0.02	NA	< 0.02	71%	50%	140%	78%	60%	130%	85%	50%	140%
1,2-Dichloropropane	2310402		<0.03	<0.03	NA	< 0.03	92%	50%	140%	87%	60%	130%	80%	50%	140%
Trichloroethylene	2310402		<0.03	<0.03	NA	< 0.03	72%	50%	140%	96%	60%	130%	99%	50%	140%
Bromodichloromethane	2310402		<0.05	<0.05	NA	< 0.05	86%	50%	140%	74%	60%	130%	75%	50%	140%
Methyl Isobutyl Ketone	2310402		<0.50	<0.50	NA	< 0.50	85%	50%	140%	90%	50%	140%	89%	50%	140%
1,1,2-Trichloroethane	2310402		<0.04	<0.04	NA	< 0.04	113%	50%	140%	119%	60%	130%	95%	50%	140%
Toluene	2310402		<0.05	<0.05	NA	< 0.05	104%	50%	140%	106%	60%	130%	85%	50%	140%
Dibromochloromethane	2310402		<0.05	<0.05	NA	< 0.05	82%	50%	140%	83%	60%	130%	77%	50%	140%
Ethylene Dibromide	2310402		<0.04	<0.04	NA	< 0.04	109%	50%	140%	112%	60%	130%	103%	50%	140%
Tetrachloroethylene	2310402		<0.05	<0.05	NA	< 0.05	119%	50%	140%	98%	60%	130%	90%	50%	140%
1,1,1,2-Tetrachloroethane	2310402		<0.04	<0.04	NA	< 0.04	86%	50%	140%	90%	60%	130%	87%	50%	140%
Chlorobenzene	2310402		<0.05	<0.05	NA	< 0.05	114%	50%	140%	118%	60%	130%	100%	50%	140%
Ethylbenzene	2310402		<0.05	<0.05	NA	< 0.05	96%	50%	140%	105%	60%	130%	87%	50%	140%
m & p-Xylene	2310402		<0.05	<0.05	NA	< 0.05	105%	50%	140%	100%	60%	130%	88%	50%	140%
Bromoform	2310402		<0.05	<0.05	NA	< 0.05	74%	50%	140%	75%	60%	130%	70%	50%	140%
Styrene	2310402		<0.05	<0.05	NA	< 0.05	98%	50%	140%	100%	60%	130%	94%	50%	140%
1,1,2,2-Tetrachloroethane	2310402		<0.05	<0.05	NA	< 0.05	93%	50%	140%	99%	60%	130%	118%	50%	140%
o-Xylene	2310402		<0.05	<0.05	NA	< 0.05	112%	50%	140%	110%	60%	130%	100%	50%	140%
1,3-Dichlorobenzene	2310402		<0.05	<0.05	NA	< 0.05	114%	50%	140%	97%	60%	130%	79%	50%	140%
1,4-Dichlorobenzene	2310402		<0.05	<0.05	NA	< 0.05	108%	50%	140%	71%	60%	130%	102%	50%	140%
1,2-Dichlorobenzene	2310402		<0.05	<0.05	NA	< 0.05	93%	50%	140%	99%	60%	130%	95%	50%	140%
n-Hexane	2310402		<0.05	<0.05	NA	< 0.05	105%	50%	140%	94%	60%	130%	104%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6036	modified from MSA PART 3, CH 14 and SM 2510 B	EC METER
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3541 and EPA 8270E	GC/MS
Acenaphthene-d10	ORG-91-5106	modified from EPA 3541 and EPA 8270E	GC/MS
Chrysene-d12	ORG-91-5106	modified from EPA 3541 and EPA 8270E	GC/MS
Moisture Content	ORG-91-5009	CCME Tier 1 Method	BALANCE
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS

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Method Summary

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Bromomethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS

AGAT Laboratories

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H728979

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Bromoform	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

AGAT Laboratories

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 21H728979

Cooler Quantity: LG COOLER

Arrival Temperatures: 5.1 | 5.2 | 4.8
3.8 | 4 | 3.6

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: ICE PACKS

Report Information:

Company: **Terraprobe Inc.** 903 Barton Street, Unit 22
Contact: Stoney Creek, Ontario L8E 5P5
Address: **Ph:** (905) 643-7560 **Fax:** (905) 643-7559
Attn.: Teresa Weatherhead
tweatherhead@terraprobe.ca
Phone:

Reports to be sent to
1. Email:
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 2 *Indicate One*
☐ Ind/Com
☑ Res/Park
☐ Agriculture

Soil Texture *(Check One)*
☑ Coarse
☐ Fine

☐ Excess Soils R406
Table _____ *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT (Most Analysis) ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: 7-18-0051-42
Site Location:
Sampled By: J.M.
AGAT ID #: _____ PO: _____
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:
Contact: Lorena Rossi
Address:
Email:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: Total PCBs ☐ Aroclor	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
BH7 SS1	Mar 31/21	AM PM		S			✓										
BH7 SS3	"	AM PM		S			✓			✓							
BH8 SS1	"	AM PM		S			✓			✓							
BH8 SS3	"	AM PM		S			✓		✓			✓					
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															

Samples Relinquished By (Print Name and Sign): Teresa Weatherhead Teresa Weatherhead	Date: April 1/21	Time: 1 pm	Samples Received By (Print Name and Sign): Daniella Jaic	Date: APR 1/21	Time: 2pm		
Samples Relinquished By (Print Name and Sign): Daniella Jaic	Date: APR 1/21	Time: 3pm	Samples Received By (Print Name and Sign): John Chypyha	Date: Apr 1	Time: 3:30	Page 1 of 1	
Samples Relinquished By (Print Name and Sign):	Date:	Time:	Samples Received By (Print Name and Sign): John Chypyha	Date: Apr 1	Time: 3:45	No: T117162	

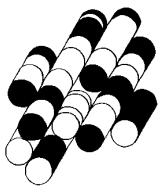
Document ID: DW-78-1511-020

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

Date Issued: December 9, 2020

APPENDIX H

TERRAPROBE INC.



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CLIENT NAME: TERRAPROBE INC
903 Barton Street
Stoney Creek, ON L8E5P5
(905) 643-7560

ATTENTION TO: Teresa Weaterhead

PROJECT: 7-18-0051-42

AGAT WORK ORDER: 21H743195

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: May 12, 2021

PAGES (INCLUDING COVER): 16

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.

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Certificate of Analysis

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2021-05-06

DATE REPORTED: 2021-05-12

				SAMPLE DESCRIPTION:	BH1	BH2	BH4	BH6	Dup 1
				SAMPLE TYPE:	Water	Water	Water	Water	Water
				DATE SAMPLED:	2021-05-06 09:00	2021-05-06 10:20	2021-05-06 11:00	2021-05-06 09:45	2021-05-06 12:00
Parameter	Unit	G / S	RDL		2436409	2436410	2436411	2436412	2436413
Naphthalene	µg/L	11	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	4.1	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	120	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	1	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	2.4	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	0.41	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	4.1	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(a)anthracene	µg/L	1	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	0.1	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.1	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.1	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.01	0.01		<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.2	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
2-and 1-methyl Naphthalene	µg/L	3.2	0.20		<0.20	<0.20	<0.20	<0.20	<0.20
Sediment					NO	NO	NO	NO	NO
Surrogate	Unit	Acceptable Limits							
Naphthalene-d8	%	50-140			105	112	104	113	110
Acridine-d9	%	50-140			108	115	105	89	102
Terphenyl-d14	%	50-140			75	96	67	77	93

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2436409-2436413 Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Analysis perfomed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)

DATE RECEIVED: 2021-05-06

DATE REPORTED: 2021-05-12

				SAMPLE DESCRIPTION:	BH1	BH2	BH4	BH6	Dup 1
				SAMPLE TYPE:	Water	Water	Water	Water	Water
				DATE SAMPLED:	2021-05-06 09:00	2021-05-06 10:20	2021-05-06 11:00	2021-05-06 09:45	2021-05-06 12:00
Parameter	Unit	G / S	RDL		2436409	2436410	2436411	2436412	2436413
F1 (C6-C10)	µg/L	750	25		<25	<25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25		<25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100		<100	<100	<100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100		<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100		<100	<100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L		100		<100	<100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100		<100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500		NA	NA	NA	NA	NA
Sediment					No	No	No	No	Trace
Surrogate	Unit	Acceptable Limits							
Toluene-d8	% Recovery	50-140			105	97.0	92.5	111	106
Terphenyl	% Recovery	60-140			98	131	86	73	95

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2436409-2436413 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Analysis perfomed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2021-05-06

DATE REPORTED: 2021-05-12

		SAMPLE DESCRIPTION:		BH1	BH2	BH4	BH6	Dup 1	Trip Blank
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2021-05-06 09:00	2021-05-06 10:20	2021-05-06 11:00	2021-05-06 09:45	2021-05-06 12:00	2021-05-06
Parameter	Unit	G / S	RDL	2436409	2436410	2436411	2436412	2436413	2436414
Dichlorodifluoromethane	µg/L	590	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Chloride	µg/L	1.7	0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	0.89	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	2700	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	14	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	50	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	15	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	5	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	1800	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	22	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	5.0	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	5.0	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	16	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	25	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.2	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	1.1	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	30	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By: NPopnikolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2021-05-06

DATE REPORTED: 2021-05-12

SAMPLE DESCRIPTION:				BH1	BH2	BH4	BH6	Dup 1	Trip Blank
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2021-05-06 09:00	2021-05-06 10:20	2021-05-06 11:00	2021-05-06 09:45	2021-05-06 12:00	2021-05-06
Parameter	Unit	G / S	RDL	2436409	2436410	2436411	2436412	2436413	2436414
m & p-Xylene	µg/L		0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	25	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	5.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	1	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	59	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	1	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	3	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	0.5	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	300	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	520	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits							
Toluene-d8	% Recovery	50-140		96	94	99	93	94	92
4-Bromofluorobenzene	% Recovery	50-140		102	101	102	101	103	101

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2436409-2436414 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis perfomed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2021-05-06

DATE REPORTED: 2021-05-12

SAMPLE DESCRIPTION:				BH1	BH2		BH4		BH6		Dup 1
SAMPLE TYPE:				Water	Water		Water		Water		Water
DATE SAMPLED:				2021-05-06 09:00	2021-05-06 10:20		2021-05-06 11:00		2021-05-06 09:45		2021-05-06 12:00
Parameter	Unit	G / S	RDL	2436409	2436410	RDL	2436411	RDL	2436412	RDL	2436413
Dissolved Antimony	µg/L	6	1.0	<1.0	<1.0	1.0	<1.0	1.0	1.8	1.0	<1.0
Dissolved Arsenic	µg/L	25	1.0	<1.0	2.7	1.0	<1.0	1.0	2.3	1.0	<1.0
Dissolved Barium	µg/L	1000	2.0	121	114	2.0	36.5	2.0	52.3	2.0	125
Dissolved Beryllium	µg/L	4	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50
Dissolved Boron	µg/L	5000	10.0	142	477	10.0	58.7	10.0	397	10.0	143
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20
Dissolved Chromium	µg/L	50	2.0	<2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	<2.0
Dissolved Cobalt	µg/L	3.8	0.50	0.61	<0.50	0.50	<0.50	0.50	<0.50	0.50	0.62
Dissolved Copper	µg/L	87	1.0	5.9	7.0	1.0	4.0	1.0	7.3	1.0	<1.0
Dissolved Lead	µg/L	10	0.50	<0.50	0.63	0.50	<0.50	0.50	0.62	0.50	<0.50
Dissolved Molybdenum	µg/L	70	0.50	3.03	35.6	0.50	<0.50	0.50	42.9	0.50	2.66
Dissolved Nickel	µg/L	100	3.0	10.6	<3.0	3.0	<3.0	3.0	<3.0	3.0	5.6
Dissolved Selenium	µg/L	10	1.0	2.4	2.0	1.0	<1.0	1.0	<1.0	1.0	<1.0
Dissolved Silver	µg/L	1.5	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20
Dissolved Thallium	µg/L	2	0.30	<0.30	<0.30	0.30	<0.30	0.30	<0.30	0.30	<0.30
Dissolved Uranium	µg/L	20	0.50	2.12	2.34	0.50	0.76	0.50	14.2	0.50	2.36
Dissolved Vanadium	µg/L	6.2	0.40	<0.40	1.29	0.40	<0.40	0.40	1.57	0.40	<0.40
Dissolved Zinc	µg/L	1100	5.0	5.8	9.0	5.0	<5.0	5.0	12.2	5.0	<5.0
Mercury	µg/L	1	0.02	<0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02
Chromium VI	µg/L	25	2.000	<2.000	<2.000	2.000	<2.000	2.000	<2.000	2.000	<2.000
Cyanide, Free	µg/L	66	2	<2	<2	2	<2	2	<2	2	<2
Dissolved Sodium	µg/L	490000	500	622000	461000	250	243000	250	370000	500	616000
Chloride	µg/L	790000	5000	1440000	1200000	500	318000	2000	555000	5000	1440000
Electrical Conductivity	uS/cm	NA	2	4770	3800	2	1650	2	2330	2	4830
pH	pH Units		NA	7.42	7.33	NA	7.68	NA	7.66	NA	7.51

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2021-05-06

DATE REPORTED: 2021-05-12

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2436409-2436413 Metals analysis completed on a filtered sample.

Dilution required, RDL has been increased accordingly.

Analysis perfomed at AGAT Toronto (unless marked by *)

Certified By:

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Exceedance Summary

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weaterhead

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
2436409	BH1	ON T2 PGW MFT	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	µg/L	790000	1440000
2436409	BH1	ON T2 PGW MFT	O. Reg. 153(511) - Metals & Inorganics (Water)	Dissolved Sodium	µg/L	490000	622000
2436410	BH2	ON T2 PGW MFT	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	µg/L	790000	1200000
2436413	Dup 1	ON T2 PGW MFT	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	µg/L	790000	1440000
2436413	Dup 1	ON T2 PGW MFT	O. Reg. 153(511) - Metals & Inorganics (Water)	Dissolved Sodium	µg/L	490000	616000

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H743195
ATTENTION TO: Teresa Weaterhead
SAMPLED BY:

Trace Organics Analysis

RPT Date: May 12, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F1 (C6-C10)	2426932		<25	<25	NA	< 25	75%	60%	140%	79%	60%	140%	85%	60%	140%
F2 (C10 to C16)	2437223		< 100	< 100	NA	< 100	110%	60%	140%	87%	60%	140%	97%	60%	140%
F3 (C16 to C34)	2437223		< 100	< 100	NA	< 100	113%	60%	140%	76%	60%	140%	117%	60%	140%
F4 (C34 to C50)	2437223		< 100	< 100	NA	< 100	96%	60%	140%	85%	60%	140%	96%	60%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	2436412	2436412	<0.20	<0.20	NA	< 0.20	103%	50%	140%	101%	50%	140%	70%	50%	140%
Acenaphthylene	2436412	2436412	<0.20	<0.20	NA	< 0.20	90%	50%	140%	103%	50%	140%	109%	50%	140%
Acenaphthene	2436412	2436412	<0.20	<0.20	NA	< 0.20	92%	50%	140%	88%	50%	140%	92%	50%	140%
Fluorene	2436412	2436412	<0.20	<0.20	NA	< 0.20	85%	50%	140%	97%	50%	140%	90%	50%	140%
Phenanthrene	2436412	2436412	<0.10	<0.10	NA	< 0.10	62%	50%	140%	76%	50%	140%	107%	50%	140%
Anthracene	2436412	2436412	<0.10	<0.10	NA	< 0.10	81%	50%	140%	97%	50%	140%	87%	50%	140%
Fluoranthene	2436412	2436412	<0.20	<0.20	NA	< 0.20	62%	50%	140%	79%	50%	140%	65%	50%	140%
Pyrene	2436412	2436412	<0.20	<0.20	NA	< 0.20	69%	50%	140%	78%	50%	140%	66%	50%	140%
Benzo(a)anthracene	2436412	2436412	<0.20	<0.20	NA	< 0.20	68%	50%	140%	78%	50%	140%	74%	50%	140%
Chrysene	2436412	2436412	<0.10	<0.10	NA	< 0.10	86%	50%	140%	97%	50%	140%	96%	50%	140%
Benzo(b)fluoranthene	2436412	2436412	<0.10	<0.10	NA	< 0.10	63%	50%	140%	103%	50%	140%	74%	50%	140%
Benzo(k)fluoranthene	2436412	2436412	<0.10	<0.10	NA	< 0.10	79%	50%	140%	106%	50%	140%	74%	50%	140%
Benzo(a)pyrene	2436412	2436412	<0.01	<0.01	NA	< 0.01	74%	50%	140%	87%	50%	140%	85%	50%	140%
Indeno(1,2,3-cd)pyrene	2436412	2436412	<0.20	<0.20	NA	< 0.20	66%	50%	140%	66%	50%	140%	75%	50%	140%
Dibenz(a,h)anthracene	2436412	2436412	<0.20	<0.20	NA	< 0.20	81%	50%	140%	93%	50%	140%	71%	50%	140%
Benzo(g,h,i)perylene	2436412	2436412	<0.20	<0.20	NA	< 0.20	106%	50%	140%	113%	50%	140%	110%	50%	140%
O. Reg. 153(511) - VOCs (Water)															
Dichlorodifluoromethane	2436412	2436412	<0.20	<0.20	NA	< 0.20	79%	50%	140%	99%	50%	140%	94%	50%	140%
Vinyl Chloride	2436412	2436412	<0.17	<0.17	NA	< 0.17	113%	50%	140%	103%	50%	140%	99%	50%	140%
Bromomethane	2436412	2436412	<0.20	<0.20	NA	< 0.20	102%	50%	140%	100%	50%	140%	94%	50%	140%
Trichlorofluoromethane	2436412	2436412	<0.40	<0.40	NA	< 0.40	98%	50%	140%	109%	50%	140%	99%	50%	140%
Acetone	2436412	2436412	<1.0	<1.0	NA	< 1.0	100%	50%	140%	95%	50%	140%	103%	50%	140%
1,1-Dichloroethylene	2436412	2436412	<0.30	<0.30	NA	< 0.30	95%	50%	140%	100%	60%	130%	91%	50%	140%
Methylene Chloride	2436412	2436412	<0.30	<0.30	NA	< 0.30	105%	50%	140%	95%	60%	130%	102%	50%	140%
trans- 1,2-Dichloroethylene	2436412	2436412	<0.20	<0.20	NA	< 0.20	90%	50%	140%	92%	60%	130%	89%	50%	140%
Methyl tert-butyl ether	2436412	2436412	<0.20	<0.20	NA	< 0.20	101%	50%	140%	102%	60%	130%	96%	50%	140%
1,1-Dichloroethane	2436412	2436412	<0.30	<0.30	NA	< 0.30	101%	50%	140%	101%	60%	130%	93%	50%	140%
Methyl Ethyl Ketone	2436412	2436412	<1.0	<1.0	NA	< 1.0	116%	50%	140%	99%	50%	140%	86%	50%	140%
cis- 1,2-Dichloroethylene	2436412	2436412	<0.20	<0.20	NA	< 0.20	96%	50%	140%	87%	60%	130%	102%	50%	140%
Chloroform	2436412	2436412	<0.20	<0.20	NA	< 0.20	97%	50%	140%	96%	60%	130%	112%	50%	140%
1,2-Dichloroethane	2436412	2436412	<0.20	<0.20	NA	< 0.20	101%	50%	140%	101%	60%	130%	99%	50%	140%
1,1,1-Trichloroethane	2436412	2436412	<0.30	<0.30	NA	< 0.30	106%	50%	140%	109%	60%	130%	103%	50%	140%
Carbon Tetrachloride	2436412	2436412	<0.20	<0.20	NA	< 0.20	112%	50%	140%	111%	60%	130%	108%	50%	140%

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H743195
ATTENTION TO: Teresa Weaterhead
SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: May 12, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	2436412	2436412	<0.20	<0.20	NA	< 0.20	103%	50%	140%	90%	60%	130%	92%	50%	140%
1,2-Dichloropropane	2436412	2436412	<0.20	<0.20	NA	< 0.20	90%	50%	140%	105%	60%	130%	97%	50%	140%
Trichloroethylene	2436412	2436412	<0.20	<0.20	NA	< 0.20	98%	50%	140%	95%	60%	130%	90%	50%	140%
Bromodichloromethane	2436412	2436412	<0.20	<0.20	NA	< 0.20	100%	50%	140%	116%	60%	130%	107%	50%	140%
Methyl Isobutyl Ketone	2436412	2436412	<1.0	<1.0	NA	< 1.0	88%	50%	140%	87%	50%	140%	94%	50%	140%
1,1,2-Trichloroethane	2436412	2436412	<0.20	<0.20	NA	< 0.20	99%	50%	140%	91%	60%	130%	91%	50%	140%
Toluene	2436412	2436412	<0.20	<0.20	NA	< 0.20	88%	50%	140%	98%	60%	130%	86%	50%	140%
Dibromochloromethane	2436412	2436412	<0.10	<0.10	NA	< 0.10	105%	50%	140%	95%	60%	130%	105%	50%	140%
Ethylene Dibromide	2436412	2436412	<0.10	<0.10	NA	< 0.10	85%	50%	140%	99%	60%	130%	90%	50%	140%
Tetrachloroethylene	2436412	2436412	<0.20	<0.20	NA	< 0.20	82%	50%	140%	94%	60%	130%	76%	50%	140%
1,1,1,2-Tetrachloroethane	2436412	2436412	<0.10	<0.10	NA	< 0.10	99%	50%	140%	97%	60%	130%	101%	50%	140%
Chlorobenzene	2436412	2436412	<0.10	<0.10	NA	< 0.10	104%	50%	140%	95%	60%	130%	98%	50%	140%
Ethylbenzene	2436412	2436412	<0.10	<0.10	NA	< 0.10	93%	50%	140%	96%	60%	130%	85%	50%	140%
m & p-Xylene	2436412	2436412	<0.20	<0.20	NA	< 0.20	101%	50%	140%	93%	60%	130%	86%	50%	140%
Bromoform	2436412	2436412	<0.10	<0.10	NA	< 0.10	92%	50%	140%	104%	60%	130%	84%	50%	140%
Styrene	2436412	2436412	<0.10	<0.10	NA	< 0.10	90%	50%	140%	89%	60%	130%	95%	50%	140%
1,1,2,2-Tetrachloroethane	2436412	2436412	<0.10	<0.10	NA	< 0.10	97%	50%	140%	91%	60%	130%	92%	50%	140%
o-Xylene	2436412	2436412	<0.10	<0.10	NA	< 0.10	80%	50%	140%	87%	60%	130%	95%	50%	140%
1,3-Dichlorobenzene	2436412	2436412	<0.10	<0.10	NA	< 0.10	100%	50%	140%	86%	60%	130%	97%	50%	140%
1,4-Dichlorobenzene	2436412	2436412	<0.10	<0.10	NA	< 0.10	104%	50%	140%	89%	60%	130%	108%	50%	140%
1,2-Dichlorobenzene	2436412	2436412	<0.10	<0.10	NA	< 0.10	102%	50%	140%	100%	60%	130%	111%	50%	140%
n-Hexane	2436412	2436412	<0.20	<0.20	NA	< 0.20	100%	50%	140%	100%	60%	130%	85%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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Quality Assurance

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

Water Analysis

RPT Date: May 12, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	2436409	2436409	<1.0	<1.0	NA	< 1.0	102%	70%	130%	99%	80%	120%	109%	70%	130%
Dissolved Arsenic	2436409	2436409	<1.0	<1.0	NA	< 1.0	93%	70%	130%	101%	80%	120%	108%	70%	130%
Dissolved Barium	2436409	2436409	121	126	4.0%	< 2.0	99%	70%	130%	101%	80%	120%	108%	70%	130%
Dissolved Beryllium	2436409	2436409	<0.50	<0.50	NA	< 0.50	102%	70%	130%	106%	80%	120%	123%	70%	130%
Dissolved Boron	2436409	2436409	142	142	0.0%	< 10.0	102%	70%	130%	103%	80%	120%	105%	70%	130%
Dissolved Cadmium	2436409	2436409	<0.20	0.48	NA	< 0.20	101%	70%	130%	101%	80%	120%	104%	70%	130%
Dissolved Chromium	2436409	2436409	<2.0	<2.0	NA	< 2.0	100%	70%	130%	96%	80%	120%	106%	70%	130%
Dissolved Cobalt	2436409	2436409	0.61	0.59	NA	< 0.50	108%	70%	130%	103%	80%	120%	106%	70%	130%
Dissolved Copper	2436409	2436409	5.9	5.9	0.0%	< 1.0	102%	70%	130%	100%	80%	120%	99%	70%	130%
Dissolved Lead	2436409	2436409	<0.50	<0.50	NA	< 0.50	103%	70%	130%	97%	80%	120%	96%	70%	130%
Dissolved Molybdenum	2436409	2436409	3.03	2.86	5.8%	< 0.50	108%	70%	130%	101%	80%	120%	114%	70%	130%
Dissolved Nickel	2436409	2436409	10.6	<3.0	NA	< 3.0	105%	70%	130%	99%	80%	120%	101%	70%	130%
Dissolved Selenium	2436409	2436409	2.4	2.6	NA	< 1.0	101%	70%	130%	105%	80%	120%	111%	70%	130%
Dissolved Silver	2436409	2436409	<0.20	<0.20	NA	< 0.20	106%	70%	130%	102%	80%	120%	101%	70%	130%
Dissolved Thallium	2436409	2436409	<0.30	<0.30	NA	< 0.30	102%	70%	130%	101%	80%	120%	102%	70%	130%
Dissolved Uranium	2436409	2436409	2.12	2.16	NA	< 0.50	96%	70%	130%	101%	80%	120%	105%	70%	130%
Dissolved Vanadium	2436409	2436409	<0.40	<0.40	NA	< 0.40	104%	70%	130%	101%	80%	120%	109%	70%	130%
Dissolved Zinc	2436409	2436409	5.8	7.9	NA	< 5.0	103%	70%	130%	101%	80%	120%	101%	70%	130%
Mercury	2436409	2436409	<0.02	<0.02	NA	< 0.02	100%	70%	130%	96%	80%	120%	99%	70%	130%
Chromium VI	2437218		<2.000	<2.000	NA	< 2	101%	70%	130%	104%	80%	120%	108%	70%	130%
Cyanide, Free	2436409	2436409	<2	<2	NA	< 2	95%	70%	130%	104%	80%	120%	98%	70%	130%
Dissolved Sodium	2431656		62500	61500	1.6%	< 50	102%	70%	130%	103%	80%	120%	99%	70%	130%
Chloride	2436180		41600	41700	0.2%	< 100	97%	70%	130%	107%	80%	120%	107%	70%	130%
Electrical Conductivity	2442676		757	759	0.3%	< 2	103%	90%	110%						
pH	2442676		7.02	7.06	0.6%	NA	99%	90%	110%						

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:

AGAT Laboratories

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			
F1 (C6-C10)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	P&T GC/FID
Toluene-d8	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

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SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: TERRAPROBE INC

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PROJECT: 7-18-0051-42

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SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H743195

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weaterhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Mercury	MET-93-6100	modified from EPA 245.2 and SM 3112 B	CVAAS
Chromium VI	INOR-93-6034	modified from QuickChem Method 10-124-13-1-B	LACHAT FIA
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Dissolved Sodium	MET-93-6105	modified from EPA 6010D	ICP/OES
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE

AGAT Laboratories

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: **Terraprobe Inc.** 903 Barton Street, Unit 22
Contact: Stoney Creek, Ontario L8E 5P5
Address: **Ph:** (905) 643-7560 **Fax:** (905) 643-7559
Attn.: Teresa Weatherhead
tweatherhead@terraprobe.ca
Phone:

Reports to be sent to:
1. Email:
2. Email:

Project Information:

Project: 7-18-0051-42
Site Location:
Sampled By: K Greenman
AGAT ID #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact: Lorena Rossi
Address:
Email: lrossi@terraprobe.ca

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table 2 *Indicate One*
☐ Ind/Com
☒ Res/Park
☐ Agriculture

Soil Texture *(Check One)*
☐ Coarse
☒ Fine

☐ Excess Soils R406
Table *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Laboratory Use Only

Work Order #: 21H743195

Cooler Quantity: 1 LG COOLER
Arrival Temperatures: 5.7 16.0 16.2
4.2 14.2 14.8
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT (Most Analysis) ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	PAHs	Total PCBs ☐ Aroclor	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach	Excess Soils SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
BH1	May 6/21	9:00 AM PM	16	GW		Y	X		X	X		X						
BH2	↓	10:20 AM PM	1	↓		Y	X		X	X		X						
BH4		11:00 AM PM				Y	X		X	X		X						
BH6		9:45 AM PM				Y	X		X	X		X						
Dup 1		- AM PM				Y	X		X	X		X						
Trip Blank	↓	- AM PM	↓	↓								X						
		AM PM																
		AM PM																
		AM PM																
		AM PM																
		AM PM																

Samples Relinquished By (Print Name and Sign): K. Greenman	May 6/21	12:55pm	Samples Received By (Print Name and Sign): DJAL	May 6/21	1pm.		
Samples Relinquished By (Print Name and Sign): DJAL	May 6/21	3pm	Samples Received By (Print Name and Sign): John Chypyha	May 6	3:50	Page 1 of 1	
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign): John Chypyha	May 6	5:30	N°: T 118282	

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

AGAT Laboratories

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CLIENT NAME: TERRAPROBE INC
903 Barton Street
Stoney Creek, ON L8E5P5
(905) 643-7560

ATTENTION TO: Teresa Weatherhead

PROJECT: 7-18-0051-42

AGAT WORK ORDER: 21H749155

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: May 26, 2021

PAGES (INCLUDING COVER): 16

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.

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Certificate of Analysis

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2021-05-19

DATE REPORTED: 2021-05-26

				SAMPLE DESCRIPTION:	BH5	BH3
				SAMPLE TYPE:	Water	Water
				DATE SAMPLED:	2021-05-19 09:00	2021-05-19 10:30
Parameter	Unit	G / S	RDL		2489036	2489037
Naphthalene	µg/L	11	0.20		<0.20	<0.20
Acenaphthylene	µg/L	1	0.20		<0.20	<0.20
Acenaphthene	µg/L	4.1	0.20		<0.20	<0.20
Fluorene	µg/L	120	0.20		<0.20	<0.20
Phenanthrene	µg/L	1	0.10		<0.10	<0.10
Anthracene	µg/L	2.4	0.10		<0.10	<0.10
Fluoranthene	µg/L	0.41	0.20		<0.20	<0.20
Pyrene	µg/L	4.1	0.20		<0.20	<0.20
Benzo(a)anthracene	µg/L	1	0.20		<0.20	<0.20
Chrysene	µg/L	0.1	0.10		<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.1	0.10		<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.1	0.10		<0.10	<0.10
Benzo(a)pyrene	µg/L	0.01	0.01		<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20		<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.2	0.20		<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20		<0.20	<0.20
2-and 1-methyl Naphthalene	µg/L	3.2	0.20		<0.20	<0.20
Sediment					NO	NO
Surrogate	Unit	Acceptable Limits				
Naphthalene-d8	%	50-140			90	89
Acridine-d9	%	50-140			78	118
Terphenyl-d14	%	50-140			88	78

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2489036-2489037 Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Analysis perfomed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)

DATE RECEIVED: 2021-05-19

DATE REPORTED: 2021-05-26

				SAMPLE DESCRIPTION:	BH3
				SAMPLE TYPE:	Water
				DATE SAMPLED:	2021-05-19 10:30
Parameter	Unit	G / S	RDL		2489037
F1 (C6-C10)	µg/L	750	25		<25
F1 (C6 to C10) minus BTEX	µg/L	750	25		<25
F2 (C10 to C16)	µg/L	150	100		<100
F2 (C10 to C16) minus Naphthalene	µg/L		100		<100
F3 (C16 to C34)	µg/L	500	100		<100
F3 (C16 to C34) minus PAHs	µg/L		100		<100
F4 (C34 to C50)	µg/L	500	100		<100
Gravimetric Heavy Hydrocarbons	µg/L		500		NA
Sediment					No
Surrogate	Unit	Acceptable Limits			
Toluene-d8	% Recovery	50-140			110
Terphenyl	% Recovery	60-140			82

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2489037 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Analysis perfomed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2021-05-19

DATE REPORTED: 2021-05-26

				SAMPLE DESCRIPTION:	BH3	Trip Blank
				SAMPLE TYPE:	Water	Water
				DATE SAMPLED:	2021-05-19 10:30	2021-05-19
Parameter	Unit	G / S	RDL		2489037	2489038
Dichlorodifluoromethane	µg/L	590	0.20		<0.20	<0.20
Vinyl Chloride	µg/L	1.7	0.17		<0.17	<0.17
Bromomethane	µg/L	0.89	0.20		<0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40		<0.40	<0.40
Acetone	µg/L	2700	1.0		<1.0	<1.0
1,1-Dichloroethylene	µg/L	14	0.30		<0.30	<0.30
Methylene Chloride	µg/L	50	0.30		<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	17	0.20		<0.20	<0.20
Methyl tert-butyl ether	µg/L	15	0.20		<0.20	<0.20
1,1-Dichloroethane	µg/L	5	0.30		<0.30	<0.30
Methyl Ethyl Ketone	µg/L	1800	1.0		<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	17	0.20		<0.20	<0.20
Chloroform	µg/L	22	0.20		<0.20	<0.20
1,2-Dichloroethane	µg/L	5	0.20		<0.20	<0.20
1,1,1-Trichloroethane	µg/L	200	0.30		<0.30	<0.30
Carbon Tetrachloride	µg/L	5.0	0.20		<0.20	<0.20
Benzene	µg/L	5.0	0.20		<0.20	<0.20
1,2-Dichloropropane	µg/L	5	0.20		<0.20	<0.20
Trichloroethylene	µg/L	5	0.20		<0.20	<0.20
Bromodichloromethane	µg/L	16	0.20		<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0		<1.0	<1.0
1,1,2-Trichloroethane	µg/L	5	0.20		<0.20	<0.20
Toluene	µg/L	24	0.20		<0.20	<0.20
Dibromochloromethane	µg/L	25	0.10		<0.10	<0.10
Ethylene Dibromide	µg/L	0.2	0.10		<0.10	<0.10
Tetrachloroethylene	µg/L	17	0.20		<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	1.1	0.10		<0.10	<0.10
Chlorobenzene	µg/L	30	0.10		<0.10	<0.10
Ethylbenzene	µg/L	2.4	0.10		<0.10	<0.10

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Certificate of Analysis

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2021-05-19

DATE REPORTED: 2021-05-26

				SAMPLE DESCRIPTION:	BH3	Trip Blank
				SAMPLE TYPE:	Water	Water
				DATE SAMPLED:	2021-05-19 10:30	2021-05-19
Parameter	Unit	G / S	RDL		2489037	2489038
m & p-Xylene	µg/L		0.20		<0.20	<0.20
Bromoform	µg/L	25	0.10		<0.10	<0.10
Styrene	µg/L	5.4	0.10		<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	1	0.10		<0.10	<0.10
o-Xylene	µg/L		0.10		<0.10	<0.10
1,3-Dichlorobenzene	µg/L	59	0.10		<0.10	<0.10
1,4-Dichlorobenzene	µg/L	1	0.10		<0.10	<0.10
1,2-Dichlorobenzene	µg/L	3	0.10		<0.10	<0.10
1,3-Dichloropropene	µg/L	0.5	0.30		<0.30	<0.30
Xylenes (Total)	µg/L	300	0.20		<0.20	<0.20
n-Hexane	µg/L	520	0.20		<0.20	<0.20
Surrogate	Unit	Acceptable Limits				
Toluene-d8	% Recovery	50-140			90	90
4-Bromofluorobenzene	% Recovery	50-140			102	100

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2489037-2489038 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis perfomed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

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Certificate of Analysis

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2021-05-19

DATE REPORTED: 2021-05-26

				SAMPLE DESCRIPTION:	BH5	BH3
				SAMPLE TYPE:	Water	Water
				DATE SAMPLED:	2021-05-19 09:00	2021-05-19 10:30
Parameter	Unit	G / S	RDL		2489036	2489037
Dissolved Antimony	µg/L	6	1.0		<1.0	<1.0
Dissolved Arsenic	µg/L	25	1.0		2.0	1.4
Dissolved Barium	µg/L	1000	2.0		66.6	64.0
Dissolved Beryllium	µg/L	4	0.50		<0.50	<0.50
Dissolved Boron	µg/L	5000	10.0		622	825
Dissolved Cadmium	µg/L	2.7	0.20		<0.20	<0.20
Dissolved Chromium	µg/L	50	2.0		<2.0	<2.0
Dissolved Cobalt	µg/L	3.8	0.50		<0.50	<0.50
Dissolved Copper	µg/L	87	1.0		7.1	<1.0
Dissolved Lead	µg/L	10	0.50		0.84	<0.50
Dissolved Molybdenum	µg/L	70	0.50		26.6	46.4
Dissolved Nickel	µg/L	100	3.0		<3.0	<3.0
Dissolved Selenium	µg/L	10	1.0		9.27	6.98
Dissolved Silver	µg/L	1.5	0.20		<0.20	<0.20
Dissolved Thallium	µg/L	2	0.30		<0.30	<0.30
Dissolved Uranium	µg/L	20	0.50		4.70	4.74
Dissolved Vanadium	µg/L	6.2	0.40		0.86	0.91
Dissolved Zinc	µg/L	1100	5.0		9.4	<5.0
Mercury	µg/L	1	0.02		<0.02	<0.02
Chromium VI	µg/L	25	2.000		<2.000	<2.000
Cyanide, Free	µg/L	66	2		<2	<2
Dissolved Sodium	µg/L	490000	250		263000	160000
Chloride	µg/L	790000	100		810000	372000
Electrical Conductivity	uS/cm	NA	2		2780	1670
pH	pH Units		NA		7.23	7.29

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Certificate of Analysis

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2021-05-19

DATE REPORTED: 2021-05-26

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

2489036-2489037 Metals analysis completed on a filtered sample.

Dilution required, RDL has been increased accordingly.

Analysis perfomed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Exceedance Summary

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

CLIENT NAME: TERRAPROBE INC

ATTENTION TO: Teresa Weatherhead

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
2489036	BH5	ON T2 PGW MFT	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	µg/L	790000	810000

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H749155
ATTENTION TO: Teresa Weatherhead
SAMPLED BY:

Trace Organics Analysis

RPT Date: May 26, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F1 (C6-C10)	2488349		<25	<25	NA	< 25	97%	60%	140%	98%	60%	140%	96%	60%	140%
F2 (C10 to C16)	2490692		< 100	< 100	NA	< 100	112%	60%	140%	96%	60%	140%	61%	60%	140%
F3 (C16 to C34)	2490692		< 100	< 100	NA	< 100	106%	60%	140%	80%	60%	140%	64%	60%	140%
F4 (C34 to C50)	2490692		< 100	< 100	NA	< 100	86%	60%	140%	98%	60%	140%	95%	60%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	2490662		<0.20	<0.20	NA	< 0.20	96%	50%	140%	102%	50%	140%	98%	50%	140%
Acenaphthylene	2490662		<0.20	<0.20	NA	< 0.20	99%	50%	140%	114%	50%	140%	101%	50%	140%
Acenaphthene	2490662		<0.20	<0.20	NA	< 0.20	92%	50%	140%	96%	50%	140%	87%	50%	140%
Fluorene	2490662		<0.20	<0.20	NA	< 0.20	100%	50%	140%	105%	50%	140%	93%	50%	140%
Phenanthrene	2490662		<0.10	<0.10	NA	< 0.10	97%	50%	140%	106%	50%	140%	93%	50%	140%
Anthracene	2490662		<0.10	<0.10	NA	< 0.10	99%	50%	140%	99%	50%	140%	91%	50%	140%
Fluoranthene	2490662		<0.20	<0.20	NA	< 0.20	101%	50%	140%	95%	50%	140%	97%	50%	140%
Pyrene	2490662		<0.20	<0.20	NA	< 0.20	100%	50%	140%	110%	50%	140%	97%	50%	140%
Benzo(a)anthracene	2490662		<0.20	<0.20	NA	< 0.20	79%	50%	140%	111%	50%	140%	83%	50%	140%
Chrysene	2490662		<0.10	<0.10	NA	< 0.10	106%	50%	140%	114%	50%	140%	99%	50%	140%
Benzo(b)fluoranthene	2490662		<0.10	<0.10	NA	< 0.10	121%	50%	140%	110%	50%	140%	98%	50%	140%
Benzo(k)fluoranthene	2490662		<0.10	<0.10	NA	< 0.10	112%	50%	140%	98%	50%	140%	87%	50%	140%
Benzo(a)pyrene	2490662		<0.01	<0.01	NA	< 0.01	128%	50%	140%	91%	50%	140%	94%	50%	140%
Indeno(1,2,3-cd)pyrene	2490662		<0.20	<0.20	NA	< 0.20	87%	50%	140%	82%	50%	140%	75%	50%	140%
Dibenz(a,h)anthracene	2490662		<0.20	<0.20	NA	< 0.20	77%	50%	140%	96%	50%	140%	83%	50%	140%
Benzo(g,h,i)perylene	2490662		<0.20	<0.20	NA	< 0.20	83%	50%	140%	84%	50%	140%	80%	50%	140%
O. Reg. 153(511) - VOCs (Water)															
Dichlorodifluoromethane	2487242		<0.20	<0.20	NA	< 0.20	96%	50%	140%	95%	50%	140%	91%	50%	140%
Vinyl Chloride	2487242		<0.17	<0.17	NA	< 0.17	87%	50%	140%	116%	50%	140%	88%	50%	140%
Bromomethane	2487242		<0.20	<0.20	NA	< 0.20	105%	50%	140%	77%	50%	140%	80%	50%	140%
Trichlorofluoromethane	2487242		<0.40	<0.40	NA	< 0.40	79%	50%	140%	91%	50%	140%	71%	50%	140%
Acetone	2487242		<1.0	<1.0	NA	< 1.0	98%	50%	140%	87%	50%	140%	93%	50%	140%
1,1-Dichloroethylene	2487242		<0.30	<0.30	NA	< 0.30	111%	50%	140%	106%	60%	130%	104%	50%	140%
Methylene Chloride	2487242		<0.30	<0.30	NA	< 0.30	86%	50%	140%	95%	60%	130%	94%	50%	140%
trans- 1,2-Dichloroethylene	2487242		<0.20	<0.20	NA	< 0.20	80%	50%	140%	75%	60%	130%	85%	50%	140%
Methyl tert-butyl ether	2487242		<0.20	<0.20	NA	< 0.20	107%	50%	140%	92%	60%	130%	91%	50%	140%
1,1-Dichloroethane	2487242		<0.30	<0.30	NA	< 0.30	78%	50%	140%	70%	60%	130%	80%	50%	140%
Methyl Ethyl Ketone	2487242		<1.0	<1.0	NA	< 1.0	93%	50%	140%	92%	50%	140%	92%	50%	140%
cis- 1,2-Dichloroethylene	2487242		<0.20	<0.20	NA	< 0.20	87%	50%	140%	71%	60%	130%	77%	50%	140%
Chloroform	2487242		<0.20	<0.20	NA	< 0.20	111%	50%	140%	87%	60%	130%	93%	50%	140%
1,2-Dichloroethane	2487242		<0.20	<0.20	NA	< 0.20	93%	50%	140%	102%	60%	130%	107%	50%	140%
1,1,1-Trichloroethane	2487242		<0.30	<0.30	NA	< 0.30	105%	50%	140%	113%	60%	130%	100%	50%	140%
Carbon Tetrachloride	2487242		<0.20	<0.20	NA	< 0.20	114%	50%	140%	92%	60%	130%	90%	50%	140%

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Quality Assurance

CLIENT NAME: TERRAPROBE INC
PROJECT: 7-18-0051-42
SAMPLING SITE:

AGAT WORK ORDER: 21H749155
ATTENTION TO: Teresa Weatherhead
SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: May 26, 2021

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	2487242		<0.20	<0.20	NA	< 0.20	109%	50%	140%	116%	60%	130%	95%	50%	140%
1,2-Dichloropropane	2487242		<0.20	<0.20	NA	< 0.20	107%	50%	140%	113%	60%	130%	103%	50%	140%
Trichloroethylene	2487242		<0.20	<0.20	NA	< 0.20	106%	50%	140%	92%	60%	130%	96%	50%	140%
Bromodichloromethane	2487242		<0.20	<0.20	NA	< 0.20	95%	50%	140%	102%	60%	130%	102%	50%	140%
Methyl Isobutyl Ketone	2487242		<1.0	<1.0	NA	< 1.0	96%	50%	140%	99%	50%	140%	93%	50%	140%
1,1,2-Trichloroethane	2487242		<0.20	<0.20	NA	< 0.20	111%	50%	140%	117%	60%	130%	90%	50%	140%
Toluene	2487242		<0.20	<0.20	NA	< 0.20	104%	50%	140%	116%	60%	130%	97%	50%	140%
Dibromochloromethane	2487242		<0.10	<0.10	NA	< 0.10	111%	50%	140%	107%	60%	130%	89%	50%	140%
Ethylene Dibromide	2487242		<0.10	<0.10	NA	< 0.10	101%	50%	140%	112%	60%	130%	92%	50%	140%
Tetrachloroethylene	2487242		<0.20	<0.20	NA	< 0.20	95%	50%	140%	108%	60%	130%	80%	50%	140%
1,1,1,2-Tetrachloroethane	2487242		<0.10	<0.10	NA	< 0.10	88%	50%	140%	85%	60%	130%	92%	50%	140%
Chlorobenzene	2487242		<0.10	<0.10	NA	< 0.10	114%	50%	140%	93%	60%	130%	97%	50%	140%
Ethylbenzene	2487242		<0.10	<0.10	NA	< 0.10	105%	50%	140%	99%	60%	130%	104%	50%	140%
m & p-Xylene	2487242		<0.20	<0.20	NA	< 0.20	102%	50%	140%	118%	60%	130%	101%	50%	140%
Bromoform	2487242		<0.10	<0.10	NA	< 0.10	93%	50%	140%	102%	60%	130%	92%	50%	140%
Styrene	2487242		<0.10	<0.10	NA	< 0.10	105%	50%	140%	117%	60%	130%	93%	50%	140%
1,1,2,2-Tetrachloroethane	2487242		<0.10	<0.10	NA	< 0.10	99%	50%	140%	111%	60%	130%	98%	50%	140%
o-Xylene	2487242		<0.10	<0.10	NA	< 0.10	107%	50%	140%	92%	60%	130%	97%	50%	140%
1,3-Dichlorobenzene	2487242		<0.10	<0.10	NA	< 0.10	117%	50%	140%	92%	60%	130%	97%	50%	140%
1,4-Dichlorobenzene	2487242		<0.10	<0.10	NA	< 0.10	87%	50%	140%	95%	60%	130%	107%	50%	140%
1,2-Dichlorobenzene	2487242		<0.10	<0.10	NA	< 0.10	117%	50%	140%	102%	60%	130%	99%	50%	140%
n-Hexane	2487242		<0.20	<0.20	NA	< 0.20	88%	50%	140%	116%	60%	130%	105%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

AGAT Laboratories

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Quality Assurance

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

Water Analysis

RPT Date: May 26, 2021			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	2489036	2489036	<1.0	<1.0	NA	< 1.0	107%	70%	130%	107%	80%	120%	102%	70%	130%
Dissolved Arsenic	2489036	2489036	2.0	1.0	NA	< 1.0	99%	70%	130%	115%	80%	120%	115%	70%	130%
Dissolved Barium	2489036	2489036	66.6	69.4	4.1%	< 2.0	104%	70%	130%	103%	80%	120%	108%	70%	130%
Dissolved Beryllium	2489036	2489036	<0.50	<0.50	NA	< 0.50	101%	70%	130%	103%	80%	120%	125%	70%	130%
Dissolved Boron	2489036	2489036	622	660	5.9%	< 10.0	104%	70%	130%	104%	80%	120%	127%	70%	130%
Dissolved Cadmium	2489036	2489036	<0.20	<0.20	NA	< 0.20	98%	70%	130%	104%	80%	120%	110%	70%	130%
Dissolved Chromium	2489036	2489036	<2.0	<2.0	NA	< 2.0	104%	70%	130%	105%	80%	120%	119%	70%	130%
Dissolved Cobalt	2489036	2489036	<0.50	<0.50	NA	< 0.50	102%	70%	130%	107%	80%	120%	114%	70%	130%
Dissolved Copper	2489036	2489036	7.1	7.3	2.8%	< 1.0	100%	70%	130%	104%	80%	120%	112%	70%	130%
Dissolved Lead	2489036	2489036	0.84	0.68	NA	< 0.50	101%	70%	130%	107%	80%	120%	101%	70%	130%
Dissolved Molybdenum	2489036	2489036	26.6	29.6	10.7%	< 0.50	107%	70%	130%	112%	80%	120%	120%	70%	130%
Dissolved Nickel	2489036	2489036	<3.0	<3.0	NA	< 3.0	102%	70%	130%	106%	80%	120%	112%	70%	130%
Dissolved Selenium	2489036	2489036	9.27	9.97	7.3%	< 1.0	102%	70%	130%	110%	80%	120%	113%	70%	130%
Dissolved Silver	2489036	2489036	<0.20	<0.20	NA	< 0.20	102%	70%	130%	105%	80%	120%	103%	70%	130%
Dissolved Thallium	2489036	2489036	<0.30	<0.30	NA	< 0.30	105%	70%	130%	109%	80%	120%	101%	70%	130%
Dissolved Uranium	2489036	2489036	4.70	4.58	2.6%	< 0.50	105%	70%	130%	107%	80%	120%	108%	70%	130%
Dissolved Vanadium	2489036	2489036	0.86	0.97	NA	< 0.40	111%	70%	130%	111%	80%	120%	124%	70%	130%
Dissolved Zinc	2489036	2489036	9.4	15.1	NA	< 5.0	100%	70%	130%	104%	80%	120%	121%	70%	130%
Mercury	2489031		<0.02	<0.02	NA	< 0.02	105%	70%	130%	98%	80%	120%	97%	70%	130%
Chromium VI	2481695		<2.000	<2.000	NA	< 2	103%	70%	130%	106%	80%	120%	104%	70%	130%
Cyanide, Free	2480867		<2	<2	NA	< 2	106%	70%	130%	95%	80%	120%	105%	70%	130%
Dissolved Sodium	2478945		84400	82700	2.0%	< 50	99%	70%	130%	99%	80%	120%	99%	70%	130%
Chloride	2490768		133000	131000	1.5%	< 100	102%	70%	130%	106%	80%	120%	NA	70%	130%
Electrical Conductivity	2489036	2489036	2780	2790	0.4%	< 2	104%	90%	110%						
pH	2489036	2489036	7.23	7.26	0.4%	NA	102%	98%	103%						

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Certified By:

AGAT Laboratories

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			
F1 (C6-C10)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	P&T GC/FID
Toluene-d8	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 21H749155

PROJECT: 7-18-0051-42

ATTENTION TO: Teresa Weatherhead

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Mercury	MET-93-6100	modified from EPA 245.2 and SM 3112 B	CVAAS
Chromium VI	INOR-93-6034	modified from QuickChem Method 10-124-13-1-B	LACHAT FIA
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Dissolved Sodium	MET-93-6105	modified from EPA 6010D	ICP/OES
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE

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Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 21H749155

Cooler Quantity: MD COOLER

Arrival Temperatures: 9.5 19.4 19.3 / 7.2 6.9 6.8

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: ICE PACKS

Report Information:

Company:
Contact: Terraprobe Inc. 903 Barton Street, Unit 22
Address: Stoney Creek, Ontario L8E 5P5
Ph: (905) 643-7560 Fax: (905) 643-7559
Attn.: Teresa Weatherhead
Phone: tweatherhead@terraprobe.ca
Reports to be sent to:
1. Email:
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 2 (Indicate One) — ☐ Ind/Com ☒ Res/Park ☐ Agriculture
Soil Texture (Check One) — ☐ Coarse ☒ Fine
☐ Excess Soils R406 — Table (Indicate One)
☐ Regulation 558
☐ CCME
☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other (Indicate One)

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT (Most Analysis) ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: 7-18-0051-42
Site Location:
Sampled By: K. Greenman
AGAT ID #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact: Lorena Rossi
Address:
Email: lrossi@terraprobe.ca

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: Total PCBs ☐ Aroclor	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
BH5	May 19/21	9:00 AM PM	8	GW		Y	X				X							
BH3	"	10:30 AM PM	16	GW		Y	X		X		X		X					
Trip Blank	"	- AM PM	3	-									X					
		AM PM																
		AM PM																
		AM PM																
		AM PM																
		AM PM																
		AM PM																
		AM PM																
		AM PM																

Samples Relinquished By (Print Name and Sign): K. Greenman	Date: May 19/21	Time: 2:20pm	Samples Received By (Print Name and Sign): DMAC	Date: May 19/21	Time: 2:35pm
Samples Relinquished By (Print Name and Sign): DMAC	Date: May 19/21	Time: 3pm	Samples Received By (Print Name and Sign):	Date: 5-19-21	Time: 3:00
Samples Relinquished By (Print Name and Sign):	Date: 5-19-21	Time:	Samples Received By (Print Name and Sign):	Date:	Time:

Page 1 of 1

Nº: T 117233

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

Date Issued: December 9, 2020