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LANKOR HORIZONS INC.

Soil Characterization Report

0 Wyandotte Street East, Windsor, Ontario



Table of Contents

Executive Summary

1.0	Introduction	1
1.1	Background	1
1.2	Objective and Scope of Work.....	1
2.0	Project Area Description	2
2.1	General Location	2
2.2	Description of Proposed Works	2
2.3	Physiography, Regional Geology/Hydrogeology.....	2
3.0	Methodology	4
3.1	Borehole Layout	4
3.2	Borehole Drilling and Soil Sampling.....	4
3.3	Soil Headspace Screening	5
3.4	Sample Handling, Custody and Analysis	5
3.5	Quality Assurance and Quality Control.....	5
4.0	Results	6
4.1	Borehole Drilling.....	6
4.2	Soil Headspace Screening	6
4.3	Soil Analytical Results	6
4.3.1	Local Background Concentration Review	7
4.3.2	Leachate Screening Review.....	8
4.3.3	Quality Assurance and Quality Control Results.....	8
5.0	Conclusion	9
6.0	Disclaimer and Limiting Conditions	10
7.0	References	11

Figures

- Figure 1 Site Location
Figure 2 Site Plan and Sample Locations

Tables

- Table 1A Laboratory Analytical Results (O.Reg 406/19 – Table 1 RPI)
Table 1B Laboratory Analytical Results (O.Reg 406/19 – Table 2.1 AGO)
Table 1C Laboratory Analytical Results (O.Reg 406/19 – Table 3.1 RPI)
Table 1D Laboratory Analytical Results (O.Reg 406/19 – Table 3.1 ICC)

Appendices

- A Borehole Logs
B Laboratory Certificates of Analysis
C Data Validation

Executive Summary

Dillon Consulting Limited (Dillon) was retained by Lankor Horizons Inc. (Lankor) to complete a Soil Characterization Program for the excess soils expected to be generated as part of construction activities for a multi-unit residential building located at 0 Wyandotte Street East, in Windsor, Ontario (the “Project Area”). The location of the Project Area is shown on Figure 1.

The Soil Characterization Program was carried out to provide excess soil reuse options for the building construction project based on the general requirements of *Ontario Regulation 406/19 – On-Site and Excess Soil Management* (O.Reg. 406/19), of which certain requirements were phased-in on January 1, 2021. The objective of this task is to ensure the project complies with the January 1, 2021 requirements and that excess soil management information has been included in the tender/contract documents to allow for the efficient management of associated project costs.

A Phase I Environmental Site Assessment (ESA) was completed for the Project Area by Dillon in July 2021. The purpose of the Phase I ESA was to assess for evidence of potential or actual environmental contamination, as a result of current or past activities, and to utilize this information for the preparation of a Sampling and Analysis Plan and Soil Characterization Program. Aerial photographs and interview comments appear to indicate that the Project Area previously operated as an orchard, from approximately the 1940s to the early 2000s. The historical use of the Project Area as an orchard represents a potential for environmental concern, as pesticides use (containing arsenic and lead) has the potential to impact soil quality at the property.

The purpose of the Soil Characterization Program was to characterize the soils to meet the requirements of O. Reg 406/19 and potential receiving sites and outline the soil reuse requirements and excess soil management information to be included in the tender/contract documents for the project.

Wood was retained by Lankor to complete a geotechnical assessment for the proposed development at the Project Area. Wood was responsible for obtain public utility locates, drilling, sample collection and laboratory analysis of the selected samples.

A total of 10 boreholes were advanced to a maximum depth of 2.1 up to 9.6 m below ground surface (bgs). The locations of each borehole are presented in Figure 2. A total of 18 soil samples (including two field duplicates) were collected and analyzed for bulk analysis of inorganics, metals, petroleum hydrocarbons (PHCs) and benzene, toluene, ethylbenzene and xylene (BTEX).

Based on the findings of the Soil Characterization Program, the soil is deemed to meet Table 1 Residential Excess Soil Quality Standards (ESQSS, Table 2.1 Agricultural and Other (AgO) ESQS, and Table 3.1 Residential, Parkland and Institutional (RPI) ESQS and Table 3.1 Industrial, Commercial and Community (ICC) ESQS. Noted Table 1 Residential ESQS exceedances for molybdenum are considered to meet the Table 1 Residential ESQS based on the local background concentration review summarized in **Section 4.3.1**.

1.0

Introduction

Dillon Consulting Limited (Dillon) was retained by Lankor Horizons Inc. (Lankor) to complete a Soil Characterization Program for the excess soils expected to be generated as part of construction activities for a multi-unit residential building located at 0 Wyandotte Street East, in Windsor, Ontario (the “Project Area”). The location of the Project Area is shown on Figure 1.

The Soil Characterization Program was carried out to provide excess soil reuse options for the building construction project based on the general requirements of *Ontario Regulation 406/19 – On-Site and Excess Soil Management* (O.Reg. 406/19), of which certain requirements were phased-in on January 1, 2021. The objective of this task is to ensure the project complies with the January 1, 2021 requirements and that excess soil management information has been included in the tender/contract documents to allow for the efficient management of associated project costs.

1.1

Background

A Phase I Environmental Site Assessment (ESA) was completed for the Project Area by Dillon in July 2021. The purpose of the Phase I ESA was to assess for evidence of potential or actual environmental contamination, as a result of current or past activities, and to utilize this information for the preparation of a Sampling and Analysis Plan and Soil Characterization Program.

Aerial photographs and interview comments appear to indicate that the site previously operated as an orchard, from approximately the 1940s to the early 2000s. The historical use of the site as an orchard represents a potential for environmental concern, as pesticides use (containing arsenic and lead) has the potential to impact soil quality at the site.

1.2

Objective and Scope of Work

The purpose of the Soil Characterization Program was to characterize the soils to meet the requirements of O.Reg 406/19 and potential receiving sites. The scope of work for the Soil Characterization Program is based on knowledge of the Project Area obtained from the Phase I ESA (Dillon, July 2021) and includes:

- Soil investigation program;
- Data evaluation; and
- Report preparation.

2.0 Project Area Description

2.1 General Location

The Project Area is located at 0 Wyandotte Street East, at the intersection of Wyandotte Street East and Florence Avenue. The site consists of an irregularly-shaped 3.4 hectare parcel of vacant/overgrown land. The Project Area is presented on Figure 1. The site is owned by Ganatchio Gardens Inc. (a subsidiary of Lankor).

Properties located adjacent to the site currently include:

- North: Wyandotte Street East, followed by residential, park and institutional land use.
- East: Residential land use, followed by agricultural land use.
- South: Park (Little River Corridor), followed by residential land use.
- West: Park (Ganatchio Trail – Little River), agricultural land and Little River Pollution Control Plant (located 1.0 km west of property).

2.2 Description of Proposed Works

The work proposed in the Project Area includes the construction of four multi-residential buildings, eight parking buildings and a paved parking lot.

As part of the construction project, it is assumed that approximately 11,750 m³ of excess soil will need to be removed from the Project Area during construction.

2.3 Physiography, Regional Geology/Hydrogeology

To describe the regional physiography and expected hydrogeological conditions beneath the Project Area, the following documents were reviewed:

- Ministry of the Environment, Conservation and Parks (MECP) Water Well Record Database;
- Essex Region/Chatham-Kent Regional Groundwater Study;
- Soil Map of Essex County, Soil Survey Report No. 11;
- Chapman and Putnam for The Physiography of Southern Ontario; and
- Google OGS Earth.

The site lies within the physiographic region of Southern Ontario known as the St. Clair Clay Plains. The surficial geology of the area interpreted to be till, consisting of silt and clay massive to well laminated with minor sand and gravel. Soils in the area of the site consist of Clyde Clay, poorly drained, stone free, consisting of a deep black clay over mottled glue-grey clay, slightly acidic to slightly alkaline. The thickness of overburden in the vicinity of the site is inferred to be approximately 35 to 45 m thick. Bedrock geology mapping for the area indicates that the site is underlain by Devonian aged limestone, dolostone and shale of the Hamilton Group.

The topographic gradient of the land in proximity to the site suggests that the regional groundwater flow direction is likely to the north to northwest towards Little River and the Detroit River. Local shallow groundwater flow is interpreted to be influenced by topography and local drainage features such as storm sewers and ditches. As there are no well records for the Project Area, the water level of the uppermost aquifer is assumed to be relatively similar to the nearest local surface water bodies (i.e. Little River and Detroit River).

According to the MECP Well Record Database, there are no wells located within or near the Project Area.

3.0

Methodology

3.1

Borehole Layout

Wood was retained by Lankor to complete a geotechnical assessment for the proposed development at the Project Area. Wood was responsible for obtain public utility locates, drilling, sample collection and laboratory analysis of the selected samples.

A soil Sampling and Analysis Plan was prepared by Dillon following the guidelines set out in O.Reg 406/19 and the associated document *Rules for Soil Management and Excess Soil Quality Standards* (Soil Rules) with one modification, the frequency of samples collected. Requirements for testing under O.Reg 406/19 will go into effect starting January 1, 2022 and are considered guidelines until this time. For the estimated volume of excess soils, the guidelines suggest:

- One soil sample per 200 m³ for the first 10,000 m³;
- One soil sample per 450 m³ after the first 10,000 m³; and
- One sample per 2,000 m³ after the first 40,000 m³.

It was determined by the Qualified Person (QP) that based on the history of the Project Area, its location in an agricultural area, the following scope of work would be sufficient to characterize these soils:

- Eighteen soil samples (including duplicates) collected from 10 boreholes and submitted for bulk analysis (this equates to approximately 30% of the samples required following the MECP guidelines);
- All samples analyzed for inorganics, metals, petroleum hydrocarbons (PHCs) and benzene, toluene, ethylbenzene and xylene (BTEX), as per the Soil Rules; and
- Additional parameters not included for analysis as no additional potential contaminants of concern were identified.

Borehole locations were selected to provide coverage across the Project Area.

3.2

Borehole Drilling and Soil Sampling

The field sampling program was completed on June 2, 2021. Henderson Drilling was retained by Wood to complete the drilling program using a truck mounted CME55 drill rig. Ten boreholes (identified as BH-101 to BH-110) were advanced to a depth of 2.1 up to 9.6 mbgs. Boreholes were advanced relatively equidistantly to provide coverage across the property and are shown in Figure 2.

Representative soil samples were collected and placed laboratory-supplied jars. QA/QC measures such as soil handling, equipment decontamination, PID calibration and sample temperature were completed by Wood. All samples were screened using a photoionization detector (PID) for the presence of petroleum hydrocarbon and VOC indicators to further assist in submitting the samples for proper analysis.

Soil stratigraphy was continuously logged and field borehole log notes were prepared by Wood, documenting the encountered soil conditions, with descriptions indicating soil type, texture, colour, structure, consistency, moisture content and other observations (such as sample recovery, weathering features, staining and odours). Wood's borehole field notes are presented in Appendix A.

3.3 Soil Headspace Screening

Soil samples from the boreholes were recovered for headspace screening and for potential submission to the laboratory. Headspace readings and probes were conducted by Wood at the time of the drilling program.

3.4 Sample Handling, Custody and Analysis

Samples for laboratory analyses were packed, and shipped by Wood. Sample temperatures were relatively within the laboratory-suggested temperatures between 4°C and 10°C, in the Chain of Custody forms.

Soil samples were submitted to Paracel Laboratories Limited located in Hamilton, Ontario for bulk analysis of inorganics, metals, PHCs and BTEX. Paracel is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for each of the analytical methods utilized, and have in-house quality assurance/quality control (QA/QC) programs to govern sample analysis and analytical data quality assurance.

One to two soil samples were obtained from each borehole and submitted for contaminants of concern. A total of 18 soil samples (including two field duplicates) were collected and sent for laboratory analysis.

3.5 Quality Assurance and Quality Control

Quality assurance and quality control (QA/QC) procedures were implemented in the field (completed by Wood) and laboratory to demonstrate that the data generated were of a level of quality suitable for their intended purposes. Laboratory QA/QC procedures included following internal protocols and analysis of a laboratory blank sample and laboratory reference standards. In addition, duplicate/replicate soil samples were collected, and submitted for laboratory analysis.

The data received from the laboratory were compiled and input into spreadsheets. After checking the spreadsheet entries, the compiled data was reviewed to confirm satisfactory quality. Sample chain-of-custody, holding times, dilution factors, surrogate recoveries, replicate analyses, analytical quantitation limits and blank analyses were reviewed, and compared to applicable quality control acceptance criteria. The process by which Dillon evaluated the quality of the analytical data is presented in Appendix C, together with the results of the QA/QC program.

4.0

Results

4.1

Borehole Drilling

A total of 10 boreholes were advanced to a maximum depth of 2.1 up to 9.6 mbgs. The locations of each borehole are presented in Figure 2. Most boreholes were advanced to approximately 2.1 and 6.5 mbgs, with two advanced to 4.0 mbgs and two advanced to 9.6 mbgs.

Throughout the Project Area, soils were generally consistent and were predominately silty clay. The subsurface stratigraphy comprised of topsoil, followed by a brown-grey silty clay up to 1.2 m in thickness with some sand and trace gravel, followed by a brown silty clay up to 2.7 m in thickness, and followed by a grey silty clay. The grey silty clay was observed past 3.0 mbgs and persisted down to the terminal depth of the boreholes. Within this layer, some exceptions were noted at approximately 6.0 mbgs, where a grey silty sand is noted in 0.15 m lenses up to 2.0 m thick layers.

Bedrock was not encountered at the maximum drilled depth of 9.6 mbgs.

The field borehole logs completed by Wood are included in Appendix A.

4.2

Soil Headspace Screening

During the drilling activities, soil samples were screened for total hydrocarbon gases using a hydrocarbon meter. Soil headspace screening results are included on the borehole logs presented in Appendix A.

4.3

Soil Analytical Results

Soils within the Project Area have been evaluated for potential reuse, generally following the guidelines for sampling under O.Reg. 406/19 and the associated Soil Rules, with some modifications. The estimated volume of excess soils intended for removal from the Project Area are 11,750 m³, and thus the Volume Independent Excess Soil Quality Standards (ESQS) were determined to be appropriate. As a result, soil quality has been compared to the following standards to evaluate their potential reuse:

- ESQS Table 1: Full Depth Background Site Condition Standards for Residential Property Use;
- ESQS Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for Agricultural (AGO) Property Use;
- ESQS Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition for Residential, Parkland and Institutional (RPI) Property Use; and
- ESQS Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition for Industrial, Commercial and Community (ICC) Property Use.

Wood collected 18 soil samples (including two field duplicates) which were submitted to Parcel for bulk analysis of inorganics, metals, PHCs and BTEX.

A summary of soil sample IDs and depths is provided below.

Sample ID	Sample Depth Range (mbgs)
BH-101 SS1	0.9-1.2
BH-101 SS2	1.5-1.8
BH-102 SS1	0.7-0.9
BH-103 SS1	0.7-0.9
BH-103 SS2	1.8-2.1
BH-104 SS1	0.9-1.2
BH-105 SS1	1.2-1.5
BH-106 SS1	0.9-1.2
BH-106 SS5	4.0-4.3
BH-107 SS1	0.9-1.2
BH-107 SS2	1.5-1.8
BH-108 SS1	0.9-1.2
BH-108 SS3	2.7-3.0
BH-109 SS1	1.2-1.5
BH-109 SS4	3.3-3.6
BH-110 SS1	1.5-1.7
BH-110 SS2	0.4-0.7

The soil samples were below the applicable Table 1 Residential ESQS, Table 2.1 AgO ESQS, Table 3.1 RPI ESQS and Table 3.1 ICC ESQS, with the exception of eight exceedances of Table 1 Residential ESQS for molybdenum.

The laboratory analytical results are presented in Table 1A to 1D.

Laboratory certificates for the analyzed samples are attached in Appendix B.

4.3.1 Local Background Concentration Review

Based on a review of the soil quality results, the elevated concentrations of molybdenum were identified as being representative of local background concentrations. The following comments are provided to support this position:

- There are no suspected anthropogenic sources of molybdenum in the Project Area;
- Elevated concentrations are present across the Project Area at varying depths; and
- Elevated concentrations of molybdenum (similar to the ranges identified in the Project Area) have been documented to be present in the local area (*Managing Natural Soils from Construction and Importation of Quarry Rehabilitation Fill in Ontario, Golder Associates Ltd., 2016*).

As a result, the elevated concentrations of molybdenum are deemed to meet the Table 1 residential ESQS. Note that reuse sites may have their own soil acceptance requirements that will also need to be met.

4.3.2 Leachate Screening Review

Five soil samples were submitted to Paracel for leachate analysis of metals using mSPLP, in response to exceedances of the Table 1 Residential ESQS for molybdenum. The sample concentrations were in compliance with the Table 1 Residential ESQS, Table 2.1 AgO ESQS, Table 3.1 RPI ESQS and Table 3.1 ICC ESQS leachate screening levels.

4.3.3 Quality Assurance and Quality Control Results

Two field duplicates were taken as part of the QA/QC program, which included DUP-1 (from parent sample BH102 SS1), DUP-2 (from parent sample BH105 SS1). All parameters satisfied the relative percent difference (RPD) threshold of fifty percent, RPD calculations for the field duplicates are summarized in Appendix C.

Conclusion

Based on the findings of the Soil Characterization Program, the soil is deemed to meet Table 1 Residential ESQS, Table 2.1 AgO ESQS, and Table 3.1 RPI ESQS and Table 3.1 ICC ESQS. Noted Table 1 Residential ESQS exceedances for molybdenum are considered to meet the Table 1 Residential ESQS based on the local background concentration review summarized in **Section 4.3.1**.

The project leader or operator of the Project Area has informed the reuse site owner or operator that the excess soil is from a location that may be expected to contain the chemical and, if sampling and analysis has been conducted in accordance with the Regulation, the project leader or operator of the Project Area has provided relevant sampling results to the reuse site owner or operator, including the soil characterization report if prepared, and identified and communicated any potential risks to surface water and ground water to the reuse site owner or operator.

6.0

Disclaimer and Limiting Conditions

This report was prepared exclusively for the purposes, project and site location(s) outlined in the report. The report is based on information provided to, or obtained by Dillon Consulting Limited ("Dillon") as indicated in the report, and applies solely to site conditions existing at the time of the Site investigation(s). Although a reasonable investigation was conducted by Dillon, Dillon's investigation was by no means exhaustive and cannot be construed as a certification of the absence of any contaminants from the Site(s). Rather, Dillon's report represents a reasonable review of available information within an agreed work scope, schedule and budget. It is therefore possible that currently unrecognized contamination or potentially hazardous materials may exist at the Site(s), and that the levels of contamination or hazardous materials may vary across the Site(s). Further review and updating of the report may be required as local and site conditions, and the regulatory and planning frameworks, change over time.

This report was prepared by Dillon for the sole benefit of our Client, Lankor Horizons Inc. The material in it reflects Dillon's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Dillon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

DILLON CONSULTING LIMITED
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Matthew Antaya
Environmental Scientist



J.P. Baillargeon, P.Eng., QP_{ESA}
Associate

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Figures



LANKOR HORIZONS INC.
SOIL CHARACTERIZATION

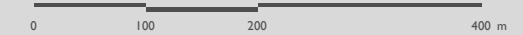
0 WYANDOTTE STREET EAST, WINDSOR
ONTARIO

FIGURE 1
SITE LOCATION

- Project Area
- Watercourse
- Wooded Area
- Roads
 - Arterial
 - Collector
 - Local



1:6,750



MAP DRAWING INFORMATION:

DATA PROVIDED BY CITY OF WINDSOR, ESRI, MNRF, & DILLON CONSULTING

MAP CREATED BY 44PMH
MAP CHECKED BY MA

MAP PROJECTION: NAD 1983 UTM Zone 17N



PROJECT: 211691
STATUS: FINAL
DATE: 2021-07



LANKOR HORIZONS INC.
SOIL CHARACTERIZATION

0 WYANDOTTE STREET EAST, WINDSOR
ONTARIO

FIGURE 2
SITE PLAN AND SAMPLE LOCATIONS

- Boreholes
- Project Area
- Study Area (250 m buffer)
- Parcels
- Watercourse
- Wooded Area
- Roads
 - Arterial
 - Collector
 - Local

Sampling and laboratory submission was completed by Wood

1:2,750



MAP DRAWING INFORMATION:

DATA PROVIDED BY CITY OF WINDSOR, ESRI, MNRF, & DILLON CONSULTING

MAP CREATED BY 44PMH
MAP CHECKED BY MA

MAP PROJECTION: NAD 1983 UTM Zone 17N



PROJECT: 211691
STATUS: FINAL
DATE: 2021-07

Tables

soil_results

TABLE 1A - Soil Quality Results (O.Reg. 406/19 - Table 1 Residential ESQS)												
Soil Characterization Program - 0 Wyandotte Street East, Windsor, ON												
Lankor Horizons Inc.												
Parameter	Units	MDL	Regulation	Sample								
				BH-101 SS1 2123488-01	BH-101 SS2 2123488-02	BH-102 SS1 2123488-04	BH-103 SS1 2123488-06	BH-103 SS2 2123488-07	BH-104 SS1 2123488-09	BH-105 SS1 2123488-11	BH-106 SS1 2123488-13	BH-106 SS5 2123488-15
Sample Date (m/d/y)		Reg 406/19-Table 1 Residential/Parkland/ Institutional/ Industrial/ Commercial	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021
<i>Physical Characteristics</i>												
% Solids	% by Wt.	0.1		81.3	88.9	87.0	87.0	88.6	81.3	87.8	80.7	86.5
<i>General Inorganics</i>												
SAR	N/A	0.01	2.4 ug/g (2.4 N/A)	0.61	0.39	0.18	0.17	0.19	0.23	0.20	0.27	0.61
Conductivity	uS/cm	5	0.57 mS/cm (570 uS/cm)	199	183	147	145	135	100	160	103	236
Cyanide, free	ug/g dry	0.03	0.051 ug/g (0.051 ug/g dry)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
pH	pH Units	0.05		7.13	7.45	7.41	7.43	7.54	7.19	7.44	7.06	7.86
<i>Metals</i>												
Boron, available	ug/g dry	0.5		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6
Chromium (VI)	ug/g dry	0.2	0.66 ug/g (0.66 ug/g dry)	0.3	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	0.2	ND (0.2)	0.4	ND (0.2)
Mercury	ug/g dry	0.1	0.27 ug/g (0.27 ug/g dry)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Antimony	ug/g dry	1.0	1.3 ug/g (1.3 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	18 ug/g (18 ug/g dry)	7.9	7.7	6.5	8.5	7.0	5.0	7.1	8.3	4.6
Barium	ug/g dry	1.0	220 ug/g (220 ug/g dry)	74.9	44.2	50.1	51.4	54.9	70.4	53.6	69.7	52.4
Beryllium	ug/g dry	0.5	2.5 ug/g (2.5 ug/g dry)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	0.5	1.0	0.5	0.7	ND (0.5)
Boron	ug/g dry	5.0	36 ug/g (36 ug/g dry)	9.8	9.0	12.4	11.0	13.5	11.6	10.7	7.4	13.4
Cadmium	ug/g dry	0.5	1.2 ug/g (1.2 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	70 ug/g (70 ug/g dry)	19.7	14.4	16.1	14.2	16.1	20.3	14.9	20.1	15.5
Cobalt	ug/g dry	1.0	21 ug/g (21 ug/g dry)	8.5	6.3	7.0	7.2	7.5	6.1	6.7	8.4	6.5
Copper	ug/g dry	5.0	92 ug/g (92 ug/g dry)	14.1	14.4	14.0	13.1	13.6	17.5	13.8	17.1	13.0
Lead	ug/g dry	1.0	120 ug/g (120 ug/g dry)	11.6	7.5	8.3	9.6	8.2	14.6	7.5	10.4	7.0
Molybdenum	ug/g dry	1.0	2 ug/g (2 ug/g dry)	2.0	2.2	2.0	1.4	2.0	ND (1.0)	1.7	2.4	2.5
Nickel	ug/g dry	5.0	82 ug/g (82 ug/g dry)	24.5	18.3	20.7	18.3	20.4	18.6	19.5	24.8	18.6
Selenium	ug/g dry	1.0	1.5 ug/g (1.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	0.5 ug/g (0.5 ug/g dry)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	1 ug/g (1 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	2.5 ug/g (2.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g (86 ug/g dry)	32.0	23.6	26.2	24.1	27.0	29.9	24.8	33.5	23.8
Zinc	ug/g dry	20.0	290 ug/g (290 ug/g dry)	50.9	35.2	38.1	33.5	41.3	55.2	36.5	50.3	34.4
<i>Volatiles</i>												
Benzene	ug/g dry	0.02	0.02 ug/g (0.02 ug/g dry)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	0.05 ug/g (0.05 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	0.2 ug/g (0.2 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	0.05 ug/g (0.05 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>												
F1 PHCs (C6-C10)	ug/g dry	7	25 ug/g (25 ug/g dry)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	10 ug/g (10 ug/g dry)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	240 ug/g (240 ug/g dry)	33	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	120 ug/g (120 ug/g dry)	33	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)

soil_results

TABLE 1A - Soil Quality Results (O.Reg. 406/19 - Table 1 Residential ESQS)												
Soil Characterization Program - 0 Wyandotte Street East, Windsor, ON												
Lankor Horizons Inc.												
Parameter	Units	MDL	Regulation	Sample								
				BH-107 SS1 2123488-16	BH-107 SS2 2123488-17	BH-108 SS1 2123488-19	BH-108 SS3 2123488-20	BH-109 SS1 2123488-22	BH-109 SS4 2123488-24	BH-110 SS1 2123488-25	DUP-1 2123488-27	DUP-2 2123488-28
Sample Date (m/d/y)		Reg 406/19-Table 1 Residential/Parkland/ Institutional/ Industrial/ Commercial	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021
<i>Physical Characteristics</i>												
% Solids	% by Wt.	0.1		81.0	88.2	86.4	88.2	81.6	87.8	83.5	87.0	83.1
<i>General Inorganics</i>												
SAR	N/A	0.01	2.4 ug/g (2.4 N/A)	0.32	0.16	0.20	0.55	0.26	0.44	0.23	0.17	0.22
Conductivity	uS/cm	5	0.57 mS/cm (570 uS/cm)	110	139	170	376	198	265	179	163	190
Cyanide, free	ug/g dry	0.03	0.051 ug/g (0.051 ug/g dry)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
pH	pH Units	0.05		7.08	7.04	7.17	6.92	7.01	7.30	7.34	7.35	7.33
<i>Metals</i>												
Boron, available	ug/g dry	0.5		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium (VI)	ug/g dry	0.2	0.66 ug/g (0.66 ug/g dry)	0.3	ND (0.2)	ND (0.2)	ND (0.2)	0.4	ND (0.2)	ND (0.2)	ND (0.2)	0.3
Mercury	ug/g dry	0.1	0.27 ug/g (0.27 ug/g dry)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Antimony	ug/g dry	1.0	1.3 ug/g (1.3 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	18 ug/g (18 ug/g dry)	8.5	6.2	9.4	7.8	8.7	8.7	10.1	9.6	7.2
Barium	ug/g dry	1.0	220 ug/g (220 ug/g dry)	87.9	47.7	67.0	66.4	111	56.9	92.1	74.1	75.7
Beryllium	ug/g dry	0.5	2.5 ug/g (2.5 ug/g dry)	0.8	ND (0.5)	0.7	ND (0.5)	1.0	0.5	0.5	0.6	0.7
Boron	ug/g dry	5.0	36 ug/g (36 ug/g dry)	11.6	11.7	13.7	14.3	11.7	13.7	13.2	12.5	11.2
Cadmium	ug/g dry	0.5	1.2 ug/g (1.2 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	70 ug/g (70 ug/g dry)	25.6	14.9	17.6	19.0	27.4	15.6	18.8	18.5	21.6
Cobalt	ug/g dry	1.0	21 ug/g (21 ug/g dry)	9.6	7.1	9.0	7.3	11.3	7.9	10.9	10.2	7.6
Copper	ug/g dry	5.0	92 ug/g (92 ug/g dry)	17.0	12.3	14.7	14.1	23.1	13.8	16.9	17.0	15.6
Lead	ug/g dry	1.0	120 ug/g (120 ug/g dry)	12.7	7.3	9.8	9.1	15.8	7.3	11.2	10.3	11.5
Molybdenum	ug/g dry	1.0	2 ug/g (2 ug/g dry)	1.4	2.0	2.3	4.1	1.9	2.9	3.3	2.6	1.2
Nickel	ug/g dry	5.0	82 ug/g (82 ug/g dry)	26.9	19.0	22.8	20.7	28.7	19.8	28.9	27.6	22.9
Selenium	ug/g dry	1.0	1.5 ug/g (1.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	0.5 ug/g (0.5 ug/g dry)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	1 ug/g (1 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	2.5 ug/g (2.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g (86 ug/g dry)	43.6	23.7	29.9	27.4	45.5	24.9	32.2	32.4	35.0
Zinc	ug/g dry	20.0	290 ug/g (290 ug/g dry)	59.3	38.0	42.8	58.7	74.7	42.5	43.9	47.4	47.6
<i>Volatiles</i>												
Benzene	ug/g dry	0.02	0.02 ug/g (0.02 ug/g dry)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	0.05 ug/g (0.05 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	0.2 ug/g (0.2 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	0.05 ug/g (0.05 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>												
F1 PHCs (C6-C10)	ug/g dry	7	25 ug/g (25 ug/g dry)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	10 ug/g (10 ug/g dry)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	240 ug/g (240 ug/g dry)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	30	ND (8)	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	120 ug/g (120 ug/g dry)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)

soil_results

TABLE 1B - Soil Quality Results (O.Reg. 406/19 - Table 2.1 AgO ESQS)												
Soil Characterization Program - 0 Wyandotte Street East, Windsor, ON												
Lankor Horizons Inc.												
Parameter	Units	MDL	Regulation	Sample								
				BH-101 SS1 2123488-01	BH-101 SS2 2123488-02	BH-102 SS1 2123488-04	BH-103 SS1 2123488-06	BH-103 SS2 2123488-07	BH-104 SS1 2123488-09	BH-105 SS1 2123488-11	BH-106 SS1 2123488-13	BH-106 SS5 2123488-15
Sample Date (m/d/y)			Reg 406/19-Table 2.1 Agricultural	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021
<i>Physical Characteristics</i>												
% Solids	% by Wt.	0.1		81.3	88.9	87.0	87.0	88.6	81.3	87.8	80.7	86.5
<i>General Inorganics</i>												
SAR	N/A	0.01	5 ug/g (5 N/A)	0.61	0.39	0.18	0.17	0.19	0.23	0.20	0.27	0.61
Conductivity	uS/cm	5	0.7 mS/cm (700 uS/cm)	199	183	147	145	135	100	160	103	236
Cyanide, free	ug/g dry	0.03	0.051 ug/g (0.051 ug/g dry)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
pH	pH Units	0.05	5 pH units (5 pH Units)	7.13	7.45	7.41	7.43	7.54	7.19	7.44	7.06	7.86
<i>Metals</i>												
Boron, available	ug/g dry	0.5	1.5 ug/g (1.5 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6
Chromium (VI)	ug/g dry	0.2	8 ug/g (8 ug/g dry)	0.3	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	0.2	ND (0.2)	0.4	ND (0.2)
Mercury	ug/g dry	0.1	0.24 ug/g (0.24 ug/g dry)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Antimony	ug/g dry	1.0	7.5 ug/g (7.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	11 ug/g (11 ug/g dry)	7.9	7.7	6.5	8.5	7.0	5.0	7.1	8.3	4.6
Barium	ug/g dry	1.0	390 ug/g (390 ug/g dry)	74.9	44.2	50.1	51.4	54.9	70.4	53.6	69.7	52.4
Beryllium	ug/g dry	0.5	4 ug/g (4 ug/g dry)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	0.5	1.0	0.5	0.7	ND (0.5)
Boron	ug/g dry	5.0	120 ug/g (120 ug/g dry)	9.8	9.0	12.4	11.0	13.5	11.6	10.7	7.4	13.4
Cadmium	ug/g dry	0.5	1 ug/g (1 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	160 ug/g (160 ug/g dry)	19.7	14.4	16.1	14.2	16.1	20.3	14.9	20.1	15.5
Cobalt	ug/g dry	1.0	22 ug/g (22 ug/g dry)	8.5	6.3	7.0	7.2	7.5	6.1	6.7	8.4	6.5
Copper	ug/g dry	5.0	140 ug/g (140 ug/g dry)	14.1	14.4	14.0	13.1	13.6	17.5	13.8	17.1	13.0
Lead	ug/g dry	1.0	45 ug/g (45 ug/g dry)	11.6	7.5	8.3	9.6	8.2	14.6	7.5	10.4	7.0
Molybdenum	ug/g dry	1.0	6.9 ug/g (6.9 ug/g dry)	2.0	2.2	2.0	1.4	2.0	ND (1.0)	1.7	2.4	2.5
Nickel	ug/g dry	5.0	100 ug/g (100 ug/g dry)	24.5	18.3	20.7	18.3	20.4	18.6	19.5	24.8	18.6
Selenium	ug/g dry	1.0	2.4 ug/g (2.4 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	20 ug/g (20 ug/g dry)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	1 ug/g (1 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	23 ug/g (23 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g (86 ug/g dry)	32.0	23.6	26.2	24.1	27.0	29.9	24.8	33.5	23.8
Zinc	ug/g dry	20.0	340 ug/g (340 ug/g dry)	50.9	35.2	38.1	33.5	41.3	55.2	36.5	50.3	34.4
<i>Volatiles</i>												
Benzene	ug/g dry	0.02	0.02 ug/g (0.02 ug/g dry)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	0.05 ug/g (0.05 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	0.2 ug/g (0.2 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	0.091 ug/g (0.091 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>												
F1 PHCs (C6-C10)	ug/g dry	7	17 ug/g (17 ug/g dry)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	10 ug/g (10 ug/g dry)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	240 ug/g (240 ug/g dry)	33	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	2800 ug/g (2800 ug/g dry)	33	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)

soil_results

TABLE 2A - Soil Quality Results (O.Reg. 406/19 - Table 2 AgO ESQS)												
Soil Characterization Program - 0 Wyandotte Street East, Windsor, ON												
Lankor Horizons Inc.												
Parameter	Units	MDL	Regulation	Sample								
				BH-107 SS1 2123488-16	BH-107 SS2 2123488-17	BH-108 SS1 2123488-19	BH-108 SS3 2123488-20	BH-109 SS1 2123488-22	BH-109 SS4 2123488-24	BH-110 SS1 2123488-25	DUP-1 2123488-27	DUP-2 2123488-28
Sample Date (m/d/y)			Reg 406/19-Table 2.1 Agricultural	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021
<i>Physical Characteristics</i>												
% Solids	% by Wt.	0.1		81.0	88.2	86.4	88.2	81.6	87.8	83.5	87.0	83.1
<i>General Inorganics</i>												
SAR	N/A	0.01	5 ug/g (5 N/A)	0.32	0.16	0.20	0.55	0.26	0.44	0.23	0.17	0.22
Conductivity	uS/cm	5	0.7 mS/cm (700 uS/cm)	110	139	170	376	198	265	179	163	190
Cyanide, free	ug/g dry	0.03	0.051 ug/g (0.051 ug/g dry)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
pH	pH Units	0.05	5 pH units (5 pH Units)	7.08	7.04	7.17	6.92	7.01	7.30	7.34	7.35	7.33
<i>Metals</i>												
Boron, available	ug/g dry	0.5	1.5 ug/g (1.5 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium (VI)	ug/g dry	0.2	8 ug/g (8 ug/g dry)	0.3	ND (0.2)	ND (0.2)	ND (0.2)	0.4	ND (0.2)	ND (0.2)	ND (0.2)	0.3
Mercury	ug/g dry	0.1	0.24 ug/g (0.24 ug/g dry)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Antimony	ug/g dry	1.0	7.5 ug/g (7.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	11 ug/g (11 ug/g dry)	8.5	6.2	9.4	7.8	8.7	8.7	10.1	9.6	7.2
Barium	ug/g dry	1.0	390 ug/g (390 ug/g dry)	87.9	47.7	67.0	66.4	111	56.9	92.1	74.1	75.7
Beryllium	ug/g dry	0.5	4 ug/g (4 ug/g dry)	0.8	ND (0.5)	0.7	ND (0.5)	1.0	0.5	0.5	0.6	0.7
Boron	ug/g dry	5.0	120 ug/g (120 ug/g dry)	11.6	11.7	13.7	14.3	11.7	13.7	13.2	12.5	11.2
Cadmium	ug/g dry	0.5	1 ug/g (1 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	160 ug/g (160 ug/g dry)	25.6	14.9	17.6	19.0	27.4	15.6	18.8	18.5	21.6
Cobalt	ug/g dry	1.0	22 ug/g (22 ug/g dry)	9.6	7.1	9.0	7.3	11.3	7.9	10.9	10.2	7.6
Copper	ug/g dry	5.0	140 ug/g (140 ug/g dry)	17.0	12.3	14.7	14.1	23.1	13.8	16.9	17.0	15.6
Lead	ug/g dry	1.0	45 ug/g (45 ug/g dry)	12.7	7.3	9.8	9.1	15.8	7.3	11.2	10.3	11.5
Molybdenum	ug/g dry	1.0	6.9 ug/g (6.9 ug/g dry)	1.4	2.0	2.3	4.1	1.9	2.9	3.3	2.6	1.2
Nickel	ug/g dry	5.0	100 ug/g (100 ug/g dry)	26.9	19.0	22.8	20.7	28.7	19.8	28.9	27.6	22.9
Selenium	ug/g dry	1.0	2.4 ug/g (2.4 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	20 ug/g (20 ug/g dry)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	1 ug/g (1 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	23 ug/g (23 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g (86 ug/g dry)	43.6	23.7	29.9	27.4	45.5	24.9	32.2	32.4	35.0
Zinc	ug/g dry	20.0	340 ug/g (340 ug/g dry)	59.3	38.0	42.8	58.7	74.7	42.5	43.9	47.4	47.6
<i>Volatiles</i>												
Benzene	ug/g dry	0.02	0.02 ug/g (0.02 ug/g dry)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	0.05 ug/g (0.05 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	0.2 ug/g (0.2 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	0.091 ug/g (0.091 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>												
F1 PHCs (C6-C10)	ug/g dry	7	17 ug/g (17 ug/g dry)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	10 ug/g (10 ug/g dry)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	240 ug/g (240 ug/g dry)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	30	ND (8)	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	2800 ug/g (2800 ug/g dry)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)

soil_results

TABLE 1C - Soil Quality Results (O.Reg. 406/19 - Table 3.1 RPI ESQS)												
Soil Characterization Program - 0 Wyandotte Street East, Windsor, ON												
Lankor Horizons Inc.												
Parameter	Units	MDL	Regulation	Sample								
				BH-101 SS1 2123488-01	BH-101 SS2 2123488-02	BH-102 SS1 2123488-04	BH-103 SS1 2123488-06	BH-103 SS2 2123488-07	BH-104 SS1 2123488-09	BH-105 SS1 2123488-11	BH-106 SS1 2123488-13	BH-106 SS5 2123488-15
Sample Date (m/d/y)	Reg 406/19-Table 3.1 Residential/Parkland			06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021
<i>Physical Characteristics</i>												
% Solids	% by Wt.	0.1		81.3	88.9	87.0	87.0	88.6	81.3	87.8	80.7	86.5
<i>General Inorganics</i>												
SAR	N/A	0.01	5 ug/g (5 N/A)	0.61	0.39	0.18	0.17	0.19	0.23	0.20	0.27	0.61
Conductivity	uS/cm	5	0.7 mS/cm (700 uS/cm)	199	183	147	145	135	100	160	103	236
Cyanide, free	ug/g dry	0.03	0.051 ug/g (0.051 ug/g dry)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
pH	pH Units	0.05	5 pH units (5 pH Units)	7.13	7.45	7.41	7.43	7.54	7.19	7.44	7.06	7.86
<i>Metals</i>												
Boron, available	ug/g dry	0.5	1.5 ug/g (1.5 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6
Chromium (VI)	ug/g dry	0.2	8 ug/g (8 ug/g dry)	0.3	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	0.2	ND (0.2)	0.4	ND (0.2)
Mercury	ug/g dry	0.1	0.27 ug/g (0.27 ug/g dry)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Antimony	ug/g dry	1.0	7.5 ug/g (7.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	18 ug/g (18 ug/g dry)	7.9	7.7	6.5	8.5	7.0	5.0	7.1	8.3	4.6
Barium	ug/g dry	1.0	390 ug/g (390 ug/g dry)	74.9	44.2	50.1	51.4	54.9	70.4	53.6	69.7	52.4
Beryllium	ug/g dry	0.5	4 ug/g (4 ug/g dry)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	0.5	1.0	0.5	0.7	ND (0.5)
Boron	ug/g dry	5.0	120 ug/g (120 ug/g dry)	9.8	9.0	12.4	11.0	13.5	11.6	10.7	7.4	13.4
Cadmium	ug/g dry	0.5	1.2 ug/g (1.2 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	160 ug/g (160 ug/g dry)	19.7	14.4	16.1	14.2	16.1	20.3	14.9	20.1	15.5
Cobalt	ug/g dry	1.0	22 ug/g (22 ug/g dry)	8.5	6.3	7.0	7.2	7.5	6.1	6.7	8.4	6.5
Copper	ug/g dry	5.0	140 ug/g (140 ug/g dry)	14.1	14.4	14.0	13.1	13.6	17.5	13.8	17.1	13.0
Lead	ug/g dry	1.0	120 ug/g (120 ug/g dry)	11.6	7.5	8.3	9.6	8.2	14.6	7.5	10.4	7.0
Molybdenum	ug/g dry	1.0	6.9 ug/g (6.9 ug/g dry)	2.0	2.2	2.0	1.4	2.0	ND (1.0)	1.7	2.4	2.5
Nickel	ug/g dry	5.0	100 ug/g (100 ug/g dry)	24.5	18.3	20.7	18.3	20.4	18.6	19.5	24.8	18.6
Selenium	ug/g dry	1.0	2.4 ug/g (2.4 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	20 ug/g (20 ug/g dry)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	1 ug/g (1 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	23 ug/g (23 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g (86 ug/g dry)	32.0	23.6	26.2	24.1	27.0	29.9	24.8	33.5	23.8
Zinc	ug/g dry	20.0	340 ug/g (340 ug/g dry)	50.9	35.2	38.1	33.5	41.3	55.2	36.5	50.3	34.4
<i>Volatiles</i>												
Benzene	ug/g dry	0.02	0.02 ug/g (0.02 ug/g dry)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	1.9 ug/g (1.9 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	0.99 ug/g (0.99 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	0.9 ug/g (0.9 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>												
F1 PHCs (C6-C10)	ug/g dry	7	25 ug/g (25 ug/g dry)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	10 ug/g (10 ug/g dry)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	300 ug/g (300 ug/g dry)	33	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	2800 ug/g (2800 ug/g dry)	33	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)

soil_results

TABLE 1C - Soil Quality Results (O.Reg. 406/19 - Table 3.1 RPI ESQS)												
Soil Characterization Program - 0 Wyandotte Street East, Windsor, ON												
Lankor Horizons Inc.												
Parameter	Units	MDL	Regulation	Sample								
				BH-107 SS1 2123488-16	BH-107 SS2 2123488-17	BH-108 SS1 2123488-19	BH-108 SS3 2123488-20	BH-109 SS1 2123488-22	BH-109 SS4 2123488-24	BH-110 SS1 2123488-25	DUP-1 2123488-27	DUP-2 2123488-28
Sample Date (m/d/y)			Reg 406/19-Table 3.1 Residential/Parkland	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021
<i>Physical Characteristics</i>												
% Solids	% by Wt.	0.1		81.0	88.2	86.4	88.2	81.6	87.8	83.5	87.0	83.1
<i>General Inorganics</i>												
SAR	N/A	0.01	5 ug/g (5 N/A)	0.32	0.16	0.20	0.55	0.26	0.44	0.23	0.17	0.22
Conductivity	uS/cm	5	0.7 mS/cm (700 uS/cm)	110	139	170	376	198	265	179	163	190
Cyanide, free	ug/g dry	0.03	0.051 ug/g (0.051 ug/g dry)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
pH	pH Units	0.05	5 pH units (5 pH Units)	7.08	7.04	7.17	6.92	7.01	7.30	7.34	7.35	7.33
<i>Metals</i>												
Boron, available	ug/g dry	0.5	1.5 ug/g (1.5 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium (VI)	ug/g dry	0.2	8 ug/g (8 ug/g dry)	0.3	ND (0.2)	ND (0.2)	ND (0.2)	0.4	ND (0.2)	ND (0.2)	ND (0.2)	0.3
Mercury	ug/g dry	0.1	0.27 ug/g (0.27 ug/g dry)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Antimony	ug/g dry	1.0	7.5 ug/g (7.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	18 ug/g (18 ug/g dry)	8.5	6.2	9.4	7.8	8.7	8.7	10.1	9.6	7.2
Barium	ug/g dry	1.0	390 ug/g (390 ug/g dry)	87.9	47.7	67.0	66.4	111	56.9	92.1	74.1	75.7
Beryllium	ug/g dry	0.5	4 ug/g (4 ug/g dry)	0.8	ND (0.5)	0.7	ND (0.5)	1.0	0.5	0.5	0.6	0.7
Boron	ug/g dry	5.0	120 ug/g (120 ug/g dry)	11.6	11.7	13.7	14.3	11.7	13.7	13.2	12.5	11.2
Cadmium	ug/g dry	0.5	1.2 ug/g (1.2 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	160 ug/g (160 ug/g dry)	25.6	14.9	17.6	19.0	27.4	15.6	18.8	18.5	21.6
Cobalt	ug/g dry	1.0	22 ug/g (22 ug/g dry)	9.6	7.1	9.0	7.3	11.3	7.9	10.9	10.2	7.6
Copper	ug/g dry	5.0	140 ug/g (140 ug/g dry)	17.0	12.3	14.7	14.1	23.1	13.8	16.9	17.0	15.6
Lead	ug/g dry	1.0	120 ug/g (120 ug/g dry)	12.7	7.3	9.8	9.1	15.8	7.3	11.2	10.3	11.5
Molybdenum	ug/g dry	1.0	6.9 ug/g (6.9 ug/g dry)	1.4	2.0	2.3	4.1	1.9	2.9	3.3	2.6	1.2
Nickel	ug/g dry	5.0	100 ug/g (100 ug/g dry)	26.9	19.0	22.8	20.7	28.7	19.8	28.9	27.6	22.9
Selenium	ug/g dry	1.0	2.4 ug/g (2.4 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	20 ug/g (20 ug/g dry)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	1 ug/g (1 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	23 ug/g (23 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g (86 ug/g dry)	43.6	23.7	29.9	27.4	45.5	24.9	32.2	32.4	35.0
Zinc	ug/g dry	20.0	340 ug/g (340 ug/g dry)	59.3	38.0	42.8	58.7	74.7	42.5	43.9	47.4	47.6
<i>Volatiles</i>												
Benzene	ug/g dry	0.02	0.02 ug/g (0.02 ug/g dry)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	1.9 ug/g (1.9 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	0.99 ug/g (0.99 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	0.9 ug/g (0.9 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>												
F1 PHCs (C6-C10)	ug/g dry	7	25 ug/g (25 ug/g dry)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	10 ug/g (10 ug/g dry)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	300 ug/g (300 ug/g dry)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	30	ND (8)	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	2800 ug/g (2800 ug/g dry)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)

soil_results

TABLE 1D - Soil Quality Results (O.Reg. 406/19 - Table 3.1 ICC ESQS)												
Soil Characterization Program - 0 Wyandotte Street East, Windsor, ON												
Lankor Horizons Inc.												
Parameter	Units	MDL	Regulation	Sample								
				BH-101 SS1 2123488-01	BH-101 SS2 2123488-02	BH-102 SS1 2123488-04	BH-103 SS1 2123488-06	BH-103 SS2 2123488-07	BH-104 SS1 2123488-09	BH-105 SS1 2123488-11	BH-106 SS1 2123488-13	BH-106 SS5 2123488-15
Sample Date (m/d/y)			Reg 406/19-Table 3.1 Industrial/Commercial	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021
<i>Physical Characteristics</i>												
% Solids	% by Wt.	0.1		81.3	88.9	87.0	87.0	88.6	81.3	87.8	80.7	86.5
<i>General Inorganics</i>												
SAR	N/A	0.01	12 ug/g (12 N/A)	0.61	0.39	0.18	0.17	0.19	0.23	0.20	0.27	0.61
Conductivity	uS/cm	5	1.4 mS/cm (1400 uS/cm)	199	183	147	145	135	100	160	103	236
Cyanide, free	ug/g dry	0.03	0.051 ug/g (0.051 ug/g dry)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
pH	pH Units	0.05	5 pH units (5 pH Units)	7.13	7.45	7.41	7.43	7.54	7.19	7.44	7.06	7.86
<i>Metals</i>												
Boron, available	ug/g dry	0.5	2 ug/g (2 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6
Chromium (VI)	ug/g dry	0.2	8 ug/g (8 ug/g dry)	0.3	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	0.2	ND (0.2)	0.4	ND (0.2)
Mercury	ug/g dry	0.1	0.27 ug/g (0.27 ug/g dry)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Antimony	ug/g dry	1.0	40 ug/g (40 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	18 ug/g (18 ug/g dry)	7.9	7.7	6.5	8.5	7.0	5.0	7.1	8.3	4.6
Barium	ug/g dry	1.0	670 ug/g (670 ug/g dry)	74.9	44.2	50.1	51.4	54.9	70.4	53.6	69.7	52.4
Beryllium	ug/g dry	0.5	8 ug/g (8 ug/g dry)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	0.5	1.0	0.5	0.7	ND (0.5)
Boron	ug/g dry	5.0	120 ug/g (120 ug/g dry)	9.8	9.0	12.4	11.0	13.5	11.6	10.7	7.4	13.4
Cadmium	ug/g dry	0.5	1.9 ug/g (1.9 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	160 ug/g (160 ug/g dry)	19.7	14.4	16.1	14.2	16.1	20.3	14.9	20.1	15.5
Cobalt	ug/g dry	1.0	80 ug/g (80 ug/g dry)	8.5	6.3	7.0	7.2	7.5	6.1	6.7	8.4	6.5
Copper	ug/g dry	5.0	230 ug/g (230 ug/g dry)	14.1	14.4	14.0	13.1	13.6	17.5	13.8	17.1	13.0
Lead	ug/g dry	1.0	120 ug/g (120 ug/g dry)	11.6	7.5	8.3	9.6	8.2	14.6	7.5	10.4	7.0
Molybdenum	ug/g dry	1.0	40 ug/g (40 ug/g dry)	2.0	2.2	2.0	1.4	2.0	ND (1.0)	1.7	2.4	2.5
Nickel	ug/g dry	5.0	270 ug/g (270 ug/g dry)	24.5	18.3	20.7	18.3	20.4	18.6	19.5	24.8	18.6
Selenium	ug/g dry	1.0	5.5 ug/g (5.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	40 ug/g (40 ug/g dry)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	3.3 ug/g (3.3 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	33 ug/g (33 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g (86 ug/g dry)	32.0	23.6	26.2	24.1	27.0	29.9	24.8	33.5	23.8
Zinc	ug/g dry	20.0	340 ug/g (340 ug/g dry)	50.9	35.2	38.1	33.5	41.3	55.2	36.5	50.3	34.4
<i>Volatiles</i>												
Benzene	ug/g dry	0.02	0.034 ug/g (0.034 ug/g dry)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	1.9 ug/g (1.9 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	7.8 ug/g (7.8 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	3 ug/g (3 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>												
F1 PHCs (C6-C10)	ug/g dry	7	25 ug/g (25 ug/g dry)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	26 ug/g (26 ug/g dry)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	1700 ug/g (1700 ug/g dry)	33	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	3300 ug/g (3300 ug/g dry)	33	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)

soil_results

TABLE 1D - Soil Quality Results (O.Reg. 406/19 - Table 3.1 ICC ESQS)												
Soil Characterization Program - 0 Wyandotte Street East, Windsor, ON												
Lankor Horizons Inc.												
Parameter	Units	MDL	Regulation	Sample								
				BH-107 SS1 2123488-16	BH-107 SS2 2123488-17	BH-108 SS1 2123488-19	BH-108 SS3 2123488-20	BH-109 SS1 2123488-22	BH-109 SS4 2123488-24	BH-110 SS1 2123488-25	DUP-1 2123488-27	DUP-2 2123488-28
Sample Date (m/d/y)			Reg 406/19-Table 3.1 Industrial/Commercial	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021	06/02/2021
<i>Physical Characteristics</i>												
% Solids	% by Wt.	0.1		81.0	88.2	86.4	88.2	81.6	87.8	83.5	87.0	83.1
<i>General Inorganics</i>												
SAR	N/A	0.01	12 ug/g (12 N/A)	0.32	0.16	0.20	0.55	0.26	0.44	0.23	0.17	0.22
Conductivity	uS/cm	5	1.4 mS/cm (1400 uS/cm)	110	139	170	376	198	265	179	163	190
Cyanide, free	ug/g dry	0.03	0.051 ug/g (0.051 ug/g dry)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
pH	pH Units	0.05	5 pH units (5 pH Units)	7.08	7.04	7.17	6.92	7.01	7.30	7.34	7.35	7.33
<i>Metals</i>												
Boron, available	ug/g dry	0.5	2 ug/g (2 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium (VI)	ug/g dry	0.2	8 ug/g (8 ug/g dry)	0.3	ND (0.2)	ND (0.2)	ND (0.2)	0.4	ND (0.2)	ND (0.2)	ND (0.2)	0.3
Mercury	ug/g dry	0.1	0.27 ug/g (0.27 ug/g dry)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Antimony	ug/g dry	1.0	40 ug/g (40 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	18 ug/g (18 ug/g dry)	8.5	6.2	9.4	7.8	8.7	8.7	10.1	9.6	7.2
Barium	ug/g dry	1.0	670 ug/g (670 ug/g dry)	87.9	47.7	67.0	66.4	111	56.9	92.1	74.1	75.7
Beryllium	ug/g dry	0.5	8 ug/g (8 ug/g dry)	0.8	ND (0.5)	0.7	ND (0.5)	1.0	0.5	0.5	0.6	0.7
Boron	ug/g dry	5.0	120 ug/g (120 ug/g dry)	11.6	11.7	13.7	14.3	11.7	13.7	13.2	12.5	11.2
Cadmium	ug/g dry	0.5	1.9 ug/g (1.9 ug/g dry)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	160 ug/g (160 ug/g dry)	25.6	14.9	17.6	19.0	27.4	15.6	18.8	18.5	21.6
Cobalt	ug/g dry	1.0	80 ug/g (80 ug/g dry)	9.6	7.1	9.0	7.3	11.3	7.9	10.9	10.2	7.6
Copper	ug/g dry	5.0	230 ug/g (230 ug/g dry)	17.0	12.3	14.7	14.1	23.1	13.8	16.9	17.0	15.6
Lead	ug/g dry	1.0	120 ug/g (120 ug/g dry)	12.7	7.3	9.8	9.1	15.8	7.3	11.2	10.3	11.5
Molybdenum	ug/g dry	1.0	40 ug/g (40 ug/g dry)	1.4	2.0	2.3	4.1	1.9	2.9	3.3	2.6	1.2
Nickel	ug/g dry	5.0	270 ug/g (270 ug/g dry)	26.9	19.0	22.8	20.7	28.7	19.8	28.9	27.6	22.9
Selenium	ug/g dry	1.0	5.5 ug/g (5.5 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	40 ug/g (40 ug/g dry)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	3.3 ug/g (3.3 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	ug/g dry	1.0	33 ug/g (33 ug/g dry)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	86 ug/g (86 ug/g dry)	43.6	23.7	29.9	27.4	45.5	24.9	32.2	32.4	35.0
Zinc	ug/g dry	20.0	340 ug/g (340 ug/g dry)	59.3	38.0	42.8	58.7	74.7	42.5	43.9	47.4	47.6
<i>Volatiles</i>												
Benzene	ug/g dry	0.02	0.034 ug/g (0.034 ug/g dry)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	1.9 ug/g (1.9 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	7.8 ug/g (7.8 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	3 ug/g (3 ug/g dry)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>												
F1 PHCs (C6-C10)	ug/g dry	7	25 ug/g (25 ug/g dry)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	26 ug/g (26 ug/g dry)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	1700 ug/g (1700 ug/g dry)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	30	ND (8)	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	3300 ug/g (3300 ug/g dry)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)

Appendix A

Borehole Logs



wood.

2.55, 7.5

Borehole Log

Job Number: OGTW2137 Technician: Steve.S Driller: Henderson Borehole BH- 101
 Client: Ganatchio Gardens Inc. Rig: Truck Mount CME55 Auger Type/Size 180mm O.D.S
 Project: Wyandotte and Florence Developme Start Time _____ Finish Time _____ Water Level _____
 GPS: _____ Boring Date (s) 2/6/21 Sheet: 1 of 1
 Elevation: _____ m

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
Topsoil 0-2' (DK Br Sandy)	1									
	2									
	3									
Br Grt Moist silty or s-s Gr	4	SS	1	20	2 4 3	6		ENV	0 ppm	
SAA 3"	5									
Br Grt s-s s	6	SS	2	23	2 3 6	9		ENV	20 ppm	
6" Br s-s	7									
6" Br s-s	8				4			ENV	0 ppm	
Br s-s s-s s-s s-s	9	SS	3	24	9 11 16	20				
Br s-s s-s s-s s-s	10				4					
	1	SS	4	18	10 14	24				
	2									
Gr s-s s-s s-s s-s	3	SS	5	18	2 4 4	8				
	4									
	5									
SAA	6	SS	6	18	1 2 3	5				
	7									
	8	VANE					>100			
	9									
	10									
5" Gr s-s 9" Gr s-s 6" Gr s-s	1	SS	7	18	5 9 6	15				
	2									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Measured Topsoil: 2 feet 0 inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: _____ feet _____ inches Borehole Dry: Y / N If N enter depths below _____
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: 0 feet _____ inches
 Well installed: Y / N If Y enter details of Well Installation in well column above

2.5', 5'

Borehole Log

Technician: Steve S Driller: Henderson Borehole BH-102
 Rig: Truck Mount CME55 Auger Type/Size 180mm D.H.S
 Start Time _____ Finish Time _____ Water Level _____
 Boring Date (s) 2-6-21 Sheet: 1 of 1
 Elevation: _____ m

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
1-18" (sand)	1									
2	2									
3	3									
4	4	SS	1	22	1 2 4	4		ENV DUP-1	0 ppm	
5	5									
6	6	SS	2	24	5 10 12 15	22		ENV	0 ppm	
7	7									
8	8									
9	9									
10	10									
11	11									
12	12									
13	13									
14	14									
15	15									
16	16									
17	17									
18	18									
19	19									
20	20									
21	21									
22	22									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)
 Sheet 1 of 1

Measured Topsoil: 1 feet 18 inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: 1 feet _____ inches Borehole Dry: Y / N If N enter depths below _____
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: 0 feet _____ inches
 Well Installed: Y / N If Y enter details of Well Installation in well column above

2.5, 5, 7.5'

Borehole Log

137 Technician: Steve S Driller: Henderson Borehole BH-103
 Gardens Inc. Rig: Truck Mount CME55 Auger Type/Size 180mm O.D.H.S
 and Florence Developme Start Time _____ Finish Time _____ Water Level _____
 N Boring Date (s) 2-6-21 Sheet: 1 of 1
 E Elevation: _____ m

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
0-18"	1									
Br Gr Silty	2									
3-4 1/2	3									
Br Silty Sand 3-1/2 to 4	4	SS	1	24	1/2	4		ENV	5 ppm	
5	5				4					
Br Silty Sand 5-3/4 to 6	6	SS	2	24	2/6	14		ENV	0 ppm	
7	7				8/4					
SAA	8				3					
TIP Br Silty Sand	9	SS	3	24	10/11	21		ENV	0 ppm	
10	10				15					
Br Silty Sand 10-3/4 to 11	11	SS	4	18	5/11	25				
12	12				14					
Gr Silty Sand 12-3/4 to 14	13	SS	5	18	2/3	7				
14	14				4					
SAA	15	SS	6	18	1/2	3				
16	16				2					
VANE	17						85 65			
18	18									
Gr Silty Sand	19	SS	7	18	3/8	17				
20	20				7					
END BH @ 21.5 FT	21									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Sheet 1 of 1

Measured Topsoil: 1 feet 18 inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: _____ feet _____ inches Borehole Dry: Y / N If N enter depths below _____
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: 0 feet _____ inches
 Well Installed: Y / N If Y enter details of Well Installation in well column above

Borehole Log

37
 Technician: Steve.S Driller: Henderson Borehole BH-104
Inc. Rig: Truck Mount CME55 Auger Type/Size 180mm D H S
and Florence Developme Start Time _____ Finish Time _____ Water Level _____
 N Boring Date (s) 2-6-21 Sheet: 1 of 1
 E Elevation: _____ m

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
	1									
	2									
<u>BT Grv Silt sand s- v Gr</u>	3									
	4	<u>SS</u>	<u>1</u>	<u>24</u>	<u>2 1 2</u>	<u>3</u>			<u>ENV Dup-3</u>	<u>Open</u>
<u>SAA</u>	5									
<u>over soft & wet 7"</u>	6	<u>SS</u>	<u>2</u>	<u>24</u>	<u>1 2 2 2-1</u>	<u>4</u>			<u>ENV</u>	<u>Open</u>
<u>END BHC 7FA</u>	7									
	8									
	9									
	10									
	11									
	12									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)
 Sheet 1 of 1

Measured Topsoil: _____ feet _____ inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: _____ feet _____ inches Borehole Dry: Y / N If N enter depths below _____
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: _____ feet _____ inches
 Well Installed: Y/N If Y enter details of Well Installation in well column above



Borehole Log

W2137 Technician: Steve.S Driller: Henderson Borehole BH-105
 Gardens Inc. Rig: Truck Mount CME55
 and Florence Developme Start Time _____ Finish Time _____
 N Boring Date (s) 2-6-21 Water Level _____
 E Elevation: _____ m Sheet: 1 of 1

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
<u>0-13</u>	1									
	2									
<u>Dr silty sand to CL</u>	3				1					
	4	SS	1	24	3 4	7			ENV DUP-2 0ppm	
	5				4					
<u>Dr silty sand to CL</u>	6	SS	2	24	8 7	16			ENV 0ppm	
	7				9 10					
<u>END BH @ 7.5A</u>	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Measured Topsoil: feet 17 inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: feet inches Borehole Dry: Y / N If N enter depths below _____
 Groundwater Depth: feet inches and/or Cave In Depth: 0ppm feet inches
 Well Installed: Y / N If Y enter details of Well Installation in well column above

d.

Borehole Log

TW2137 Technician: Steve.S Driller: Henderson Borehole BH- 106
 No Gardens Inc. Rig: Truck Mount CME55 Auger Type/Size 180mm O.D.H.S
 Otto and Florence Development Start Time _____ Finish Time _____ Water Level _____
 Boring Date (s) 2-6-21 Elevation: _____ m Sheet: 1 of 1

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N° or CONE (blows)	N° VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
Soil 0-19	1									
	2									
Grey silty silt	3									
	4	SS	1	24	6			ENV 106-1	5 ppm	
SAA	5									
Dr silty	6	SS	2	20	9					
	7									
Dr silty w silt	8									
	9	SS	3	24	17			ENV 106-3	Open	
	10									
Dr silty w silt	1	SS	4	24	24					
	2									
Grey silty to silty clay	3									
found on road	4	SS	5	18	9			ENV 106-5	Open	
END @ 14.5 ft	5									
	6									
	7									
	8									
	9									
	0									
	1									
	2									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Sheet 1 of 1

Measured Topsoil: 19 feet 0 inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: _____ feet _____ inches Borehole Dry: Y N If N enter depths below _____
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: open feet _____ inches
 Well Installed: Y N If Y enter details of Well Installation in well column above

Scanned with CamScanner

2.5 5, 10

Borehole Log

GTW2137 Technician: Steve.S Driller: Henderson
 Ohio Gardens Inc. Rig: Truck Mount CME55
 ndotte and Florence Developme Start Time _____ Finish Time _____
 Boring Date (s) 2-6-21
 Elevation: _____ m
 Borehole BH- 107
 Auger Type/Size 180mm O.D.H.S
 Water Level _____
 Sheet: 1 of 2

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
0-18	1									
	2									
Br Gr Sil Som Som T Gr	3				2					
	4	SS	1	24	3	4		ENV 107-1	Open	
	5				2					
Br Sil Som 2 T Gr	6	SS	2	24	2	11		ENV 107-2	Open	
	7				7					
SAA	8				6					
	9	SS	3	18	12	28				
	10				16					
Br Sil - 3-7 Gr	1	SS	4	24	3	24		ENV 107-4	Open	
	2				10					
	3				14					
Gr Sil T L & C	4	SS	5	18	2	5				
	5				2					
SAA	6	SS	6	18	1	2				
	7				1					
AVE 8 17 Hit sand & stop	8	VANE								
	9						Stop			
Gr sil som 6-7 S	20									
	1	SS	7	18	4	13				
Gr Sil 4"	2				9					

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Measured Topsoil: 18 feet 0 inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: _____ feet _____ inches Borehole Dry: Y/N If N enter depths below
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: 0 feet _____ inches
 Well Installed: Y/N If Y enter details of Well Installation in well column above

Borehole Log

STW2137 Technician: Steve S Driller: Henderson
 No Gardens Inc. Rig: Truck Mount CME55
 Botte and Florence Developme Start Time _____ Finish Time _____
 Boring Date (s) 2-6-21
 Elevation: _____ m
 Borehole BH-107
 Auger Type/Size 180mm O.D.H.S
 Water Level _____
 Sheet: 2 of 2

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
	1									
	2									
	3									
	4									
	5									
<u>GY s/c1</u>	6	<u>SS</u>	<u>8</u>	<u>18</u>	<u>12</u>	<u>12</u>				
<u>GY s/c2</u>	7									
	8									
	9									
<u>Sandy fill SS9A</u>	30									
<u>s/c1 SS9B</u>	1	<u>SS</u>	<u>9</u>	<u>18</u>	<u>3</u>	<u>8</u>				
<u>END BH @ 31.5 ft</u>	2				<u>4</u>					
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

MARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Measured Topsoil: 18 feet 18 inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: _____ feet _____ inches Borehole Dry: Y/N If N enter depths below
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: _____ feet _____ inches
 Installed: Y/N If Y enter details of Well Installation in well column above

Borehole Log

SGTW2137 Technician: Steve S Driller: Henderson
 Michio Gardens Inc. Rig: Truck Mount CME55
 Sandotte and Florence Development Start Time _____ Finish Time _____
 Boring Date (s) 2-6-21 Borehole BH-108
 Elevation: _____ Auger Type/Size 180mm O.D.S
 Water Level _____
 Sheet: 1 of 2

S21 S23 S25
 2.5, 7.5, 12.5

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
Soil 0-10	1									
Br Gr Silty Sand Tr Gr	2									
Br Gr Silty Sand Tr Gr	3									
Br Gr Silty Sand Tr Gr	4	SS	1	24	15	7		ENV 108-1	5 ppm	
Br Gr Silty Sand Tr Gr	5									
Br Silty Sand Tr Gr	6	SS	2	24	3	9				
SAA	7									
	8									
	9	SS	3	24	3	21		ENV 108-3	0 ppm	
SAA	10									
	1	SS	4	24	3	23				
	2									
Gr Silty Tr S + Gr	3									
	4	SS	5	20	1	5		ENV 108-5	0 ppm	
	5									
SAA	6	SS	6	14	1	3				
	7									
	8	VAVE								
	9									
	10									
SAA	1	SS	7		1	2				
	2									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Measured Topsoil: feet 10 inches OR Measured Asphalt / Concrete: inches
 Measured Granular Fill: feet inches Borehole Dry: Y/N If N enter depths below 30
 Groundwater Depth: feet inches and/or Cave In Depth: open 30 feet inches
 Well Installed: Y/N If Y enter details of Well Installation in well column above

Scanned with CamScanner

Borehole Log

GTW2137 Technician: Steve S Driller: Henderson
 Echo Gardens Inc. Rig: Truck Mount CME55
 Rodette and Florence Development Start Time _____ Finish Time _____
 Boring Date (s) 2-6-21
 Elevation: _____ m

Borehole BH-108
 Auger Type/Size 180mm O.D H.S
 Water Level _____
 Sheet: 2 of 2

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
	0									
	1									
	2									
	3	VAVE					85	42		
	4									
	5									
	6	SS	8	18	10 21 23	44				
	7									
	8									
	9									
	30									
	1	SS	9	18	10 31 23	44				
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	0									
	1									
	2									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Measured Topsoil: feet 10 inches OR Measured Asphalt / Concrete: inches
 Measured Granular Fill: feet inches Borehole Dry: Y N If N enter depths below 30'
 Groundwater Depth: feet inches and/or Cave In Depth: 30' feet inches
 Well Installed: Y N If Y enter details of Well Installation in well column above

2.5, 5, 10
Borehole Log

OGTW2137 Technician: Steve S Driller: Henderson
 Bio Gardens Inc. Rig: Truck Mount CME55 Borehole: BH- 109
 and Florence Developme Start Time _____ Finish Time _____
 Boring Date (s) 2-6-21 Auger Type/Size 100mm D.H.S
 Elevation: _____ m Water Level _____
 Sheet: 1 of 1

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
Topsoil 0-	1									
Dr GY SIC 2 L PG	2									
	3									
	4	SS	1	18	2 3 3	5		ENV 109-1	5 ppm	
Dr SIC 2 L PG	5									
	6	SS	2	24	2 6 8	10		ENV 109-2	5 ppm	
	7									
SAR	8									
	9	SS	3	24	4 7 12	23				
SAR	10									
power ~ rock	1	SS	4	24	10 21 16 17	37		ENV 109-4	0 ppm	
END @ 12 SA	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	1									
	2									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)
 Sheet 1 of 1

Measured Topsoil: _____ feet _____ inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: 1 feet _____ inches Borehole Dry: Y N If N enter depths below _____
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: 0 feet _____ inches
 Well Installed: Y N If Y enter details of Well Installation in well column above

Borehole Log

Log No: OGTW2137 Technician: Steve S Driller: Henderson
 Client: Richlo Gardens Inc. Rig: Truck Mount CME55 Borehole: BH-110
 Location: Adotte and Florence Developme Start Time: _____ Finish Time: _____
 Boring Date (s): 2-6-21 Water Level: _____
 Elevation: _____ m Sheet: 1 of 1

DESCRIPTION OF SOIL	DEPTH (ft)	SAMPLE				N' or CONE (blows)	N' VANE (lbs-ft)		Well	ENGINEER COMMENTS (Leave Blank)
		TYPE	No.	REC	BLOWS 6"		in-situ	re-mold		
Topsoil 0-15	1									
	2									
B/Gry Silty Sand 2-66	3				2			EM	Opr	
	4	SS	1	24	3	7				
	5				4					
B/Silty Sand 2-7/G	6				5					
	7	SS	2	19	6	11		EM	Opr	
END BH @ 7.5'	8				7					
	9									
	10									
	11									
	12									

REMARKS (ie weather, materials used such as bags of grout/hole plug, standby time etc.)

Sheet 1 of 1

Measured Topsoil: 15 feet 0 inches OR Measured Asphalt / Concrete: _____ inches
 Measured Granular Fill: _____ feet _____ inches Borehole Dry: Y N If N enter depths below _____
 Groundwater Depth: _____ feet _____ inches and/or Cave In Depth: 0 feet _____ inches
 Well Installed: Y If Y enter details of Well Installation in well column above

Appendix B

Laboratory Certificates of Analysis

Certificate of Analysis

Wood Environment & Infrastructure (Windsor)

11865 County Road 42
Tecumseh, ON N8N 2M1
Attn: Cindy McKee

Client PO: OGTW2118.2000
Project: OGTW2118.2000
Custody:

Report Date: 9-Jun-2021
Order Date: 3-Jun-2021

Order #: 2123488

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Parcel ID	Client ID
2123488-01	BH-101 SS1
2123488-02	BH-101 SS2
2123488-04	BH-102 SS1
2123488-06	BH-103 SS1
2123488-07	BH-103 SS2
2123488-09	BH-104 SS1
2123488-11	BH-105 SS1
2123488-13	BH-106 SS1
2123488-15	BH-106 SS5
2123488-16	BH-107 SS1
2123488-17	BH-107 SS2
2123488-19	BH-108 SS1
2123488-20	BH-108 SS3
2123488-22	BH-109 SS1
2123488-24	BH-109 SS4
2123488-25	BH-110 SS1
2123488-27	DUP-1
2123488-28	DUP-2

Approved By:



Alex Enfield, MSc
Lab Manager

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	7-Jun-21	7-Jun-21
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	3-Jun-21	7-Jun-21
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	4-Jun-21	8-Jun-21
Conductivity	MOE E3138 - probe @25 °C, water ext	5-Jun-21	5-Jun-21
Cyanide, free	MOE E3015 - Auto Colour, water extraction	4-Jun-21	4-Jun-21
Mercury by CVAA	EPA 7471B - CVAA, digestion	5-Jun-21	8-Jun-21
pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	7-Jun-21	7-Jun-21
PHC F1	CWS Tier 1 - P&T GC-FID	3-Jun-21	7-Jun-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	7-Jun-21	8-Jun-21
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	7-Jun-21	7-Jun-21
SAR	Calculated	7-Jun-21	7-Jun-21
Solids, %	Gravimetric, calculation	4-Jun-21	7-Jun-21

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Client ID:	BH-101 SS1	BH-101 SS2	BH-102 SS1	BH-103 SS1
Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
Sample ID:	2123488-01	2123488-02	2123488-04	2123488-06
MDL/Units	Soil	Soil	Soil	Soil

Physical Characteristics

% Solids	0.1 % by Wt.	81.3	88.9	87.0	87.0
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General Inorganics

SAR	0.01 N/A	0.61	0.39	0.18	0.17
Conductivity	5 uS/cm	199	183	147	145
Cyanide, free	0.03 ug/g dry	<0.03	<0.03	<0.03	<0.03
pH	0.05 pH Units	7.13	7.45	7.41	7.43

Metals

Antimony	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Arsenic	1.0 ug/g dry	7.9	7.7	6.5	8.5
Barium	1.0 ug/g dry	74.9	44.2	50.1	51.4
Beryllium	0.5 ug/g dry	0.6	<0.5	<0.5	<0.5
Boron	5.0 ug/g dry	9.8	9.0	12.4	11.0
Boron, available	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Cadmium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Chromium	5.0 ug/g dry	19.7	14.4	16.1	14.2
Chromium (VI)	0.2 ug/g dry	0.3	<0.2	<0.2	<0.2
Cobalt	1.0 ug/g dry	8.5	6.3	7.0	7.2
Copper	5.0 ug/g dry	14.1	14.4	14.0	13.1
Lead	1.0 ug/g dry	11.6	7.5	8.3	9.6
Mercury	0.1 ug/g dry	<0.1	<0.1	<0.1	<0.1
Molybdenum	1.0 ug/g dry	2.0	2.2	2.0	1.4
Nickel	5.0 ug/g dry	24.5	18.3	20.7	18.3
Selenium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Silver	0.3 ug/g dry	<0.3	<0.3	<0.3	<0.3
Thallium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Uranium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Vanadium	10.0 ug/g dry	32.0	23.6	26.2	24.1
Zinc	20.0 ug/g dry	50.9	35.2	38.1	33.5

Volatiles

Benzene	0.02 ug/g dry	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Toluene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
m,p-Xylenes	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
o-Xylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Xylenes, total	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

	Client ID:	BH-101 SS1	BH-101 SS2	BH-102 SS1	BH-103 SS1
	Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
	Sample ID:	2123488-01	2123488-02	2123488-04	2123488-06
	MDL/Units	Soil	Soil	Soil	Soil
Toluene-d8	Surrogate	107%	107%	107%	107%

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g dry	<7	<7	<7	<7
F2 PHCs (C10-C16)	4 ug/g dry	<4	<4	<4	<4
F3 PHCs (C16-C34)	8 ug/g dry	33	<8	<8	<8
F4 PHCs (C34-C50)	6 ug/g dry	33	<6	<6	<6

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Client ID:	BH-103 SS2	BH-104 SS1	BH-105 SS1	BH-106 SS1
Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
Sample ID:	2123488-07	2123488-09	2123488-11	2123488-13
MDL/Units	Soil	Soil	Soil	Soil

Physical Characteristics

% Solids	0.1 % by Wt.	88.6	81.3	87.8	80.7
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General Inorganics

SAR	0.01 N/A	0.19	0.23	0.20	0.27
Conductivity	5 uS/cm	135	100	160	103
Cyanide, free	0.03 ug/g dry	<0.03	<0.03	<0.03	<0.03
pH	0.05 pH Units	7.54	7.19	7.44	7.06

Metals

Antimony	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Arsenic	1.0 ug/g dry	7.0	5.0	7.1	8.3
Barium	1.0 ug/g dry	54.9	70.4	53.6	69.7
Beryllium	0.5 ug/g dry	0.5	1.0	0.5	0.7
Boron	5.0 ug/g dry	13.5	11.6	10.7	7.4
Boron, available	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Cadmium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Chromium	5.0 ug/g dry	16.1	20.3	14.9	20.1
Chromium (VI)	0.2 ug/g dry	<0.2	0.2	<0.2	0.4
Cobalt	1.0 ug/g dry	7.5	6.1	6.7	8.4
Copper	5.0 ug/g dry	13.6	17.5	13.8	17.1
Lead	1.0 ug/g dry	8.2	14.6	7.5	10.4
Mercury	0.1 ug/g dry	<0.1	<0.1	<0.1	<0.1
Molybdenum	1.0 ug/g dry	2.0	<1.0	1.7	2.4
Nickel	5.0 ug/g dry	20.4	18.6	19.5	24.8
Selenium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Silver	0.3 ug/g dry	<0.3	<0.3	<0.3	<0.3
Thallium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Uranium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Vanadium	10.0 ug/g dry	27.0	29.9	24.8	33.5
Zinc	20.0 ug/g dry	41.3	55.2	36.5	50.3

Volatiles

Benzene	0.02 ug/g dry	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Toluene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
m,p-Xylenes	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
o-Xylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Xylenes, total	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

	Client ID:	BH-103 SS2	BH-104 SS1	BH-105 SS1	BH-106 SS1
	Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
	Sample ID:	2123488-07	2123488-09	2123488-11	2123488-13
	MDL/Units	Soil	Soil	Soil	Soil
Toluene-d8	Surrogate	106%	105%	107%	102%
Hydrocarbons					
F1 PHCs (C6-C10)	7 ug/g dry	<7	<7	<7	<7
F2 PHCs (C10-C16)	4 ug/g dry	<4	<4	<4	<4
F3 PHCs (C16-C34)	8 ug/g dry	<8	<8	<8	<8
F4 PHCs (C34-C50)	6 ug/g dry	<6	<6	<6	<6

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Client ID:	BH-106 SS5	BH-107 SS1	BH-107 SS2	BH-108 SS1
Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
Sample ID:	2123488-15	2123488-16	2123488-17	2123488-19
MDL/Units	Soil	Soil	Soil	Soil

Physical Characteristics

% Solids	0.1 % by Wt.	86.5	81.0	88.2	86.4
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General Inorganics

SAR	0.01 N/A	0.61	0.32	0.16	0.20
Conductivity	5 uS/cm	236	110	139	170
Cyanide, free	0.03 ug/g dry	<0.03	<0.03	<0.03	<0.03
pH	0.05 pH Units	7.86	7.08	7.04	7.17

Metals

Antimony	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Arsenic	1.0 ug/g dry	4.6	8.5	6.2	9.4
Barium	1.0 ug/g dry	52.4	87.9	47.7	67.0
Beryllium	0.5 ug/g dry	<0.5	0.8	<0.5	0.7
Boron	5.0 ug/g dry	13.4	11.6	11.7	13.7
Boron, available	0.5 ug/g dry	0.6	<0.5	<0.5	<0.5
Cadmium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Chromium	5.0 ug/g dry	15.5	25.6	14.9	17.6
Chromium (VI)	0.2 ug/g dry	<0.2	0.3	<0.2	<0.2
Cobalt	1.0 ug/g dry	6.5	9.6	7.1	9.0
Copper	5.0 ug/g dry	13.0	17.0	12.3	14.7
Lead	1.0 ug/g dry	7.0	12.7	7.3	9.8
Mercury	0.1 ug/g dry	<0.1	<0.1	<0.1	<0.1
Molybdenum	1.0 ug/g dry	2.5	1.4	2.0	2.3
Nickel	5.0 ug/g dry	18.6	26.9	19.0	22.8
Selenium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Silver	0.3 ug/g dry	<0.3	<0.3	<0.3	<0.3
Thallium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Uranium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Vanadium	10.0 ug/g dry	23.8	43.6	23.7	29.9
Zinc	20.0 ug/g dry	34.4	59.3	38.0	42.8

Volatiles

Benzene	0.02 ug/g dry	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Toluene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
m,p-Xylenes	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
o-Xylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Xylenes, total	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

	Client ID:	BH-106 SS5	BH-107 SS1	BH-107 SS2	BH-108 SS1
	Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
	Sample ID:	2123488-15	2123488-16	2123488-17	2123488-19
	MDL/Units	Soil	Soil	Soil	Soil
Toluene-d8	Surrogate	105%	102%	104%	107%
Hydrocarbons					
F1 PHCs (C6-C10)	7 ug/g dry	<7	<7	<7	<7
F2 PHCs (C10-C16)	4 ug/g dry	<4	<4	<4	<4
F3 PHCs (C16-C34)	8 ug/g dry	<8	<8	<8	<8
F4 PHCs (C34-C50)	6 ug/g dry	<6	<6	<6	<6

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Client ID:	BH-108 SS3	BH-109 SS1	BH-109 SS4	BH-110 SS1
Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
Sample ID:	2123488-20	2123488-22	2123488-24	2123488-25
MDL/Units	Soil	Soil	Soil	Soil

Physical Characteristics

% Solids	0.1 % by Wt.	88.2	81.6	87.8	83.5
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General Inorganics

SAR	0.01 N/A	0.55	0.26	0.44	0.23
Conductivity	5 uS/cm	376	198	265	179
Cyanide, free	0.03 ug/g dry	<0.03	<0.03	<0.03	<0.03
pH	0.05 pH Units	6.92	7.01	7.30	7.34

Metals

Antimony	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Arsenic	1.0 ug/g dry	7.8	8.7	8.7	10.1
Barium	1.0 ug/g dry	66.4	111	56.9	92.1
Beryllium	0.5 ug/g dry	<0.5	1.0	0.5	0.5
Boron	5.0 ug/g dry	14.3	11.7	13.7	13.2
Boron, available	0.5 ug/g dry	<0.5	0.6	<0.5	<0.5
Cadmium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Chromium	5.0 ug/g dry	19.0	27.4	15.6	18.8
Chromium (VI)	0.2 ug/g dry	<0.2	0.4	<0.2	<0.2
Cobalt	1.0 ug/g dry	7.3	11.3	7.9	10.9
Copper	5.0 ug/g dry	14.1	23.1	13.8	16.9
Lead	1.0 ug/g dry	9.1	15.8	7.3	11.2
Mercury	0.1 ug/g dry	<0.1	<0.1	<0.1	<0.1
Molybdenum	1.0 ug/g dry	4.1	1.9	2.9	3.3
Nickel	5.0 ug/g dry	20.7	28.7	19.8	28.9
Selenium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Silver	0.3 ug/g dry	<0.3	<0.3	<0.3	<0.3
Thallium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Uranium	1.0 ug/g dry	<1.0	1.0	<1.0	<1.0
Vanadium	10.0 ug/g dry	27.4	45.5	24.9	32.2
Zinc	20.0 ug/g dry	58.7	74.7	42.5	43.9

Volatiles

Benzene	0.02 ug/g dry	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Toluene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
m,p-Xylenes	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
o-Xylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Xylenes, total	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

	Client ID:	BH-108 SS3	BH-109 SS1	BH-109 SS4	BH-110 SS1
	Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
	Sample ID:	2123488-20	2123488-22	2123488-24	2123488-25
	MDL/Units	Soil	Soil	Soil	Soil
Toluene-d8	Surrogate	107%	106%	102%	104%

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g dry	<7	<7	<7	<7
F2 PHCs (C10-C16)	4 ug/g dry	<4	<4	<4	<4
F3 PHCs (C16-C34)	8 ug/g dry	<8	<8	30	<8
F4 PHCs (C34-C50)	6 ug/g dry	<6	<6	<6	<6

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Client ID:	DUP-1	DUP-2	-	-
Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	-	-
Sample ID:	2123488-27	2123488-28	-	-
MDL/Units	Soil	Soil	-	-

Physical Characteristics

% Solids	0.1 % by Wt.	87.0	83.1	-	-
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General Inorganics

SAR	0.01 N/A	0.17	0.22	-	-
Conductivity	5 uS/cm	163	190	-	-
Cyanide, free	0.03 ug/g dry	<0.03	<0.03	-	-
pH	0.05 pH Units	7.35	7.33	-	-

Metals

Antimony	1.0 ug/g dry	<1.0	<1.0	-	-
Arsenic	1.0 ug/g dry	9.6	7.2	-	-
Barium	1.0 ug/g dry	74.1	75.7	-	-
Beryllium	0.5 ug/g dry	0.6	0.7	-	-
Boron	5.0 ug/g dry	12.5	11.2	-	-
Boron, available	0.5 ug/g dry	<0.5	<0.5	-	-
Cadmium	0.5 ug/g dry	<0.5	<0.5	-	-
Chromium	5.0 ug/g dry	18.5	21.6	-	-
Chromium (VI)	0.2 ug/g dry	<0.2	0.3	-	-
Cobalt	1.0 ug/g dry	10.2	7.6	-	-
Copper	5.0 ug/g dry	17.0	15.6	-	-
Lead	1.0 ug/g dry	10.3	11.5	-	-
Mercury	0.1 ug/g dry	<0.1	<0.1	-	-
Molybdenum	1.0 ug/g dry	2.6	1.2	-	-
Nickel	5.0 ug/g dry	27.6	22.9	-	-
Selenium	1.0 ug/g dry	<1.0	<1.0	-	-
Silver	0.3 ug/g dry	<0.3	<0.3	-	-
Thallium	1.0 ug/g dry	<1.0	<1.0	-	-
Uranium	1.0 ug/g dry	<1.0	<1.0	-	-
Vanadium	10.0 ug/g dry	32.4	35.0	-	-
Zinc	20.0 ug/g dry	47.4	47.6	-	-

Volatiles

Benzene	0.02 ug/g dry	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g dry	<0.05	<0.05	-	-
Toluene	0.05 ug/g dry	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g dry	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g dry	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g dry	<0.05	<0.05	-	-

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

	Client ID:	DUP-1	DUP-2	-	-
	Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	-	-
	Sample ID:	2123488-27	2123488-28	-	-
	MDL/Units	Soil	Soil	-	-
Toluene-d8	Surrogate	107%	101%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g dry	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g dry	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g dry	<8	<8	-	-
F4 PHCs (C34-C50)	6 ug/g dry	<6	<6	-	-

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Conductivity	ND	5	uS/cm						
Cyanide, free	ND	0.03	ug/g						
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g						
F2 PHCs (C10-C16)	ND	4	ug/g						
F3 PHCs (C16-C34)	ND	8	ug/g						
F4 PHCs (C34-C50)	ND	6	ug/g						
Metals									
Antimony	ND	1.0	ug/g						
Arsenic	ND	1.0	ug/g						
Barium	ND	1.0	ug/g						
Beryllium	ND	0.5	ug/g						
Boron, available	ND	0.5	ug/g						
Boron	ND	5.0	ug/g						
Cadmium	ND	0.5	ug/g						
Chromium (VI)	ND	0.2	ug/g						
Chromium	ND	5.0	ug/g						
Cobalt	ND	1.0	ug/g						
Copper	ND	5.0	ug/g						
Lead	ND	1.0	ug/g						
Mercury	ND	0.1	ug/g						
Molybdenum	ND	1.0	ug/g						
Nickel	ND	5.0	ug/g						
Selenium	ND	1.0	ug/g						
Silver	ND	0.3	ug/g						
Thallium	ND	1.0	ug/g						
Uranium	ND	1.0	ug/g						
Vanadium	ND	10.0	ug/g						
Zinc	ND	20.0	ug/g						
Volatiles									
Benzene	ND	0.02	ug/g						
Ethylbenzene	ND	0.05	ug/g						
Toluene	ND	0.05	ug/g						
m,p-Xylenes	ND	0.05	ug/g						
o-Xylene	ND	0.05	ug/g						
Xylenes, total	ND	0.05	ug/g						
Surrogate: Toluene-d8	9.01		ug/g		112	50-140			

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	0.18	0.01	N/A	0.17			5.7	30	
Conductivity	145	5	uS/cm	145			0.0	5	
Cyanide, free	ND	0.03	ug/g dry	ND			NC	35	
pH	7.12	0.05	pH Units	7.13			0.1	10	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g dry	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g dry	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g dry	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g dry	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g dry	ND			NC	30	
Arsenic	9.5	1.0	ug/g dry	7.9			18.0	30	
Barium	93.7	1.0	ug/g dry	74.9			22.3	30	
Beryllium	0.8	0.5	ug/g dry	0.6			26.1	30	
Boron, available	ND	0.5	ug/g dry	ND			NC	35	
Boron	13.2	5.0	ug/g dry	9.8			29.9	30	
Cadmium	ND	0.5	ug/g dry	ND			NC	30	
Chromium (VI)	0.4	0.2	ug/g dry	0.3			28.6	35	
Chromium	24.6	5.0	ug/g dry	19.7			22.1	30	
Cobalt	10.8	1.0	ug/g dry	8.5			24.7	30	
Copper	17.4	5.0	ug/g dry	14.1			20.6	30	
Lead	14.0	1.0	ug/g dry	11.6			19.1	30	
Mercury	ND	0.1	ug/g dry	ND			NC	30	
Molybdenum	2.6	1.0	ug/g dry	2.0			26.1	30	
Nickel	30.0	5.0	ug/g dry	24.5			20.0	30	
Selenium	ND	1.0	ug/g dry	ND			NC	30	
Silver	ND	0.3	ug/g dry	ND			NC	30	
Thallium	ND	1.0	ug/g dry	ND			NC	30	
Uranium	ND	1.0	ug/g dry	ND			NC	30	
Vanadium	39.8	10.0	ug/g dry	32.0			21.7	30	
Zinc	61.4	20.0	ug/g dry	50.9			18.6	30	
Physical Characteristics									
% Solids	92.3	0.1	% by Wt.	91.5			0.9	25	
Volatiles									
Benzene	ND	0.02	ug/g dry	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g dry	ND			NC	50	
Toluene	ND	0.05	ug/g dry	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g dry	ND			NC	50	
o-Xylene	ND	0.05	ug/g dry	ND			NC	50	
Surrogate: Toluene-d8	6.79		ug/g dry		107	50-140			

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.791	0.03	ug/g	ND	79.1	70-130			
Hydrocarbons									
F1 PHCs (C6-C10)	58	7	ug/g	ND	82.0	80-120			
F2 PHCs (C10-C16)	94	4	ug/g	ND	99.4	60-140			
F3 PHCs (C16-C34)	213	8	ug/g	ND	101	60-140			
F4 PHCs (C34-C50)	190	6	ug/g	ND	125	60-140			
Metals									
Antimony	118	1.0	ug/g	ND	94.7	70-130			
Arsenic	137	1.0	ug/g	7.9	104	70-130			
Barium	197	1.0	ug/g	74.9	98.1	70-130			
Beryllium	114	0.5	ug/g	0.6	91.1	70-130			
Boron, available	4.21	0.5	ug/g	ND	84.2	70-122			
Boron	119	5.0	ug/g	9.8	87.3	70-130			
Cadmium	123	0.5	ug/g	ND	98.1	70-130			
Chromium (VI)	5.0	0.2	ug/g	0.3	77.5	70-130			
Chromium	135	5.0	ug/g	19.7	91.9	70-130			
Cobalt	125	1.0	ug/g	8.5	92.9	70-130			
Copper	137	5.0	ug/g	14.1	98.1	70-130			
Lead	126	1.0	ug/g	11.6	91.6	70-130			
Mercury	1.56	0.1	ug/g	ND	104	70-130			
Molybdenum	127	1.0	ug/g	2.0	99.8	70-130			
Nickel	147	5.0	ug/g	24.5	98.3	70-130			
Selenium	117	1.0	ug/g	ND	93.8	70-130			
Silver	119	0.3	ug/g	ND	95.6	70-130			
Thallium	118	1.0	ug/g	ND	94.2	70-130			
Uranium	113	1.0	ug/g	ND	90.5	70-130			
Vanadium	147	10.0	ug/g	32.0	92.2	70-130			
Zinc	172	20.0	ug/g	50.9	97.1	70-130			
Volatiles									
Benzene	7.85	0.02	ug/g	ND	97.6	60-130			
Ethylbenzene	7.67	0.05	ug/g	ND	95.4	60-130			
Toluene	7.72	0.05	ug/g	ND	96.5	60-130			
m,p-Xylenes	15.3	0.05	ug/g	ND	95.3	60-130			
o-Xylene	7.60	0.05	ug/g	ND	94.6	60-130			
Surrogate: Toluene-d8	15.7		ug/g		97.6	50-140			

Certificate of Analysis

Report Date: 09-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2118.2000

Project Description: OGTW2118.2000

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis when the units are denoted with 'dry'.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.



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Chain of Custody
(Lab Use Only)

Page 1 of 3

Client Name: Wood E&I Solutions	Project Reference: OGTW2118.2000	TAT: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day Date Required: _____
Contact Name: Cindy McKee	Quote # 20-268	
Address: 11865 County Road 42, Tecumseh, Ontario, N8N 2M1	PO # OGTW2118.2000	
Telephone: 519-735-2499	Email Address: cindy.mckee@woodplc.com terry.glendenning@woodplc.com	

Criteria: O. Reg. 153/04 (As Amended) Table RSC Filing O. Reg. 558/00 PWQO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: O. Reg. 408/19

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other) Required Analyses

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	Cr-VI	B (HWS)	EC, SAR, pH	O. Reg. 406 Metals	O. Reg. 406 VOCs			
				Date	Time													
1 BH-101 SS1	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 BH-101 SS2	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 BH-101 SS3	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 BH-102 SS1	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 BH-102 SS2	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 BH-103 SS1	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 BH-103 SS2	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 BH-103 SS3	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 BH-104 SS1	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 BH-104 SS2	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Use COC sample ID if difference between COC and soil jar
Compare to Table 1 SCS and Table 3.1 Method of Delivery: Walk in

Relinquished By (Sign):	Received by Driver/Depot: Pat	Received at Lab: AEB	Verified By: AEB
Relinquished By (Print):	Date/Time: June 3/21/2021	Date/Time: 4-June-21 11:23	Date/Time: 4-June-21 11:53
Date/Time: June 3, 2021	Temperature: 5.9 °C	Temperature: 3.1 °C	pH Verified [] By:



LABORATORIES LTD.

Parcel ID: 2123488



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Ottawa, Ontario K1G 4J6
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www.paracellabs.com

Chain of Custody
(Lab Use Only)

Page 2 of 3

Client Name: Wood E&I Solutions	Project Reference: OGTW2118.2000	TAT: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> 3 Day
Contact Name: Cindy McKee	Quote #: 20-268	<input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day
Address: 11885 County Road 42, Tecumseh, Ontario, N8N 2M1	PO #: OGTW2118.2000	Date Required: _____
Telephone: 519-735-2499	Email Address: cindy.mckee@woodplc.com terry.glendenning@woodplc.com	

Criteria: O. Reg. 153/04 (As Amended) Table RSC Filing O. Reg. 558/00 PWQO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: O. Reg. 406/19

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analyses

Parcel Order Number:		Matrix	Air Volume	# of Containers	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	Cr VI	B (HWS)	EC, SAR, pH	O. Reg. 406 Metals	O. Reg. 406 VOCs			
Sample ID/Location Name					Date	Time													
1	BH-105 SS1	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	BH-105 SS2	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	BH-106 SS1	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	BH-106 SS3	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	BH-106 SS5	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	BH-107 SS1	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	BH-107 SS2	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	BH-107 SS4	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	BH-108 SS1	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	BH-108 SS3	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Use COC sample ID if difference between COC and soil jar
Compare to Table 1 SCS and Table 3.1

Method of Delivery: Walk in

Relinquished By (Sign):	Received by Driver/Depot: <u>Pat</u>	Received at Lab: <u>Aes</u>	Verified By: <u>Aes</u>
Relinquished By (Print): Terry Glendenning	Date/Time: <u>June 3/21 17:02</u>	Date/Time: <u>June-4-21 11:33</u>	Date/Time: <u>June-21-11-33</u>
Date/Time: June 3, 2021	Temperature: <u>5.9</u> °C	Temperature: <u>3.6</u> °C	pH Verified [] By: _____



Client Name: Wood E&I Solutions	Project Reference: OGTW2118.2000	TAT: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day Date Required: _____
Contact Name: Cindy McKee	Quote #: 20-268	
Address: 11865 County Road 42, Tecumseh, Ontario, N8N 2M1	PO #: OGTW2118.2000	
Telephone: 519-735-2499	Email Address: cindy.mckee@woodplc.com terry.glendenning@woodplc.com	

Criteria: O. Reg. 153/04 (As Amended) Table RSC Filing O. Reg. 558/00 PWQO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: O. Reg. 406/19

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other) **Required Analyses**

Parcel Order Number:		Matrix	Air Volume	# of Containers	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	Cr-VI	B (HWS)	EC, SAR, pH	O. Reg. 406 Metals	O. Reg. 406 VOCs	HOLD
Sample ID/Location Name					Date	Time											
1	BH-101 SS1	S		3	2-June-21	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	BH-101 SS2	S		3	2-June-21	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	BH-101 SS3	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	BH-102 SS1	S		3	2-June-21	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	BH-102 SS2	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	BH-103 SS1	S		3	2-June-21	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	BH-103 SS2	S		3	2-June-21	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	BH-103 SS3	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	BH-104 SS1	S		3	2-June-21	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	BH-104 SS2	S		3	2-June-21	--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: Use COC sample ID if difference between COC and soil jar
Compare to Table 1 SCS and Table 3.1

Method of Delivery: *walker*

Relinquished By (Sign):	Received by Driver/Depot:	Received at Lab: <i>AOB</i>	Verified By: <i>AOB</i>
Relinquished By (Print):	Date/Time:	Date/Time: <i>4-June-21 11:33</i>	Date/Time: <i>4-June-21 11:30</i>
Date/Time: June 3, 2021	Temperature: _____ °C	Temperature: <i>3.1</i> °C	pH Verified [] By:



Client Name: Wood E&I Solutions	Project Reference: OGTW2118.2000	TAT: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> 3 Day
Contact Name: Cindy McKee	Quote #: 20-268	<input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day
Address: 11865 County Road 42, Tecumseh, Ontario, N8N 2M1	PO #: OGTW2118.2000	Date Required: _____
Telephone: 519-735-2499	Email Address: cindy.mckee@woodplc.com terry.glendenning@woodplc.com	

Criteria: O. Reg. 153/04 (As Amended) Table RSC Filing O. Reg. 558/00 PWQO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: O.Reg. 406/19

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Parcel Order Number:		Matrix	Air Volume	# of Containers	Sample Taken		Required Analyses											HOLD	
Sample ID/Location Name					Date	Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	EC, SAR, pH	O. Reg. 406 Metals	O. Reg. 406 VOCs			
1	BH-105 SS1	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	BH-105 SS2	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	BH-106 SS1	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	BH-106 SS3	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	BH-106 SS5	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	BH-107 SS1	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	BH-107 SS2	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	BH-107 SS4	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	BH-108 SS1	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	BH-108 SS3	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Use COC sample ID if difference between COC and soil jar
Compare to Table 1 SCS and Table 3.1

Relinquished By (Sign):	Received by Driver/Depot:	Received at Lab: <i>AES</i>	Verified By: <i>AES</i>
Relinquished By (Print):	Date/Time:	Date/Time: <i>4-June-21 11:33</i>	Date/Time: <i>June-4-21 11:33</i>
Date/Time: June 3, 2021	Temperature: _____ °C	Temperature: <i>8.1</i> °C	pH Verified By:



Client Name: Wood E&I Solutions	Project Reference: OGTW2118.2000	TAT: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day Date Required: _____
Contact Name: Cindy McKee	Quote #: 20-268	
Address: 11865 County Road 42, Tecumseh, Ontario, N8N 2M1	PO #: OGTW2118.2000	
Telephone: 519-735-2499	Email Address: cindy.mckee@woodplc.com terry.glendenning@woodplc.com	

Criteria: O. Reg. 153/04 (As Amended) Table RSC Filing O. Reg. 558/00 PWQO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: O. Reg. 406/19

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other) **Required Analyses**

Parcel Order Number:		Matrix	Air Volume	# of Containers	Sample Taken		PHCs FI-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	EC, SAR, pH	O. Reg. 406 Metals	O. Reg. 406 VOCs	HOLD
Sample ID/Location Name					Date	Time											
1	BH-108 SS5	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	BH-109 SS1	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	BH-109 SS2	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	BH-109 SS4	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	BH-110 SS1	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	BH-110 SS2	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	DUP-1	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	DUP-2	S		3	2-June-21	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	DUP-3	S		3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Use COC sample ID if difference between COC and soil jar
Compare to Table 1 SCS and Table 3.1

Method of Delivery: _____

Relinquished By (Sign):	Received by Driver/Depot:	Received at Lab: <i>Aec</i>	Verified By: <i>Aec</i>
Relinquished By (Print):	Date/Time:	Date/Time: <i>June-21-21 11:33</i>	Date/Time: <i>June-21 11:33</i>
Date/Time: June 3, 2021	Temperature: _____ °C	Temperature: <i>3.1</i> °C	pH Verified [] By: _____

Certificate of Analysis

Wood Environment & Infrastructure (Windsor)

11865 County Road 42
Tecumseh, ON N8N 2M1
Attn: Cindy McKee

Client PO: OGTW2137.2000
Project: OGTW2137.2000
Custody:

Report Date: 17-Jun-2021
Order Date: 3-Jun-2021

Order #: 2124624

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Parcel ID	Client ID
2124624-01	BH-101 SS2
2124624-02	BH-106 SS5
2124624-03	BH-108 SS3
2124624-04	BH-109 SS4
2124624-05	BH-110 SS1

Approved By:



Alex Enfield, MSc
Lab Manager

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
REG 406: Leachate - ABNs	mSPLP EPA 625 - GC-MS	16-Jun-21	16-Jun-21
REG 406: Leachate - Metals by ICP-MS	mSPLP EPA 6020 - Digestion - ICP-MS	15-Jun-21	15-Jun-21
REG 406: Leachate - VOCs	mSPLP EPA 624 - P&T GC-MS	15-Jun-21	16-Jun-21
Solids, %	Gravimetric, calculation	16-Jun-21	17-Jun-21

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Client ID:	BH-101 SS2	BH-106 SS5	BH-108 SS3	BH-109 SS4
Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
Sample ID:	2124624-01	2124624-02	2124624-03	2124624-04
MDL/Units	Soil	Soil	Soil	Soil

Physical Characteristics

% Solids	0.1 % by Wt.	86.3	87.0	88.1	87.2
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mSPLP Leachate Metals

Concentration	BH-101 SS2	BH-106 SS5	BH-108 SS3	BH-109 SS4
Antimony	0.5 ug/L	<0.5	<0.5	<0.5
Arsenic	1.0 ug/L	<1.0	2.2	<1.0
Barium	1.0 ug/L	3.0	10.3	7.0
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5
Boron	10.0 ug/L	10.6	23.1	11.4
Cadmium	0.2 ug/L	<0.2	<0.2	<0.2
Chromium	1.0 ug/L	<1.0	<1.0	8.7
Cobalt	0.5 ug/L	<0.5	0.5	<0.5
Copper	0.5 ug/L	<0.5	1.1	0.6
Lead	0.2 ug/L	<0.2	0.2	<0.2
Molybdenum	0.5 ug/L	12.4	6.5	19.8
Nickel	1.0 ug/L	<1.0	<1.0	4.0
Selenium	1.0 ug/L	<1.0	2.4	<1.0
Silver	0.2 ug/L	<0.2	<0.2	<0.2
Thallium	0.5 ug/L	<0.5	<0.5	<0.5
Uranium	0.2 ug/L	<0.2	0.5	0.5
Vanadium	0.5 ug/L	<0.5	9.7	1.5
Zinc	5.0 ug/L	<5.0	<5.0	<5.0

mSPLP Leachate VOCs

Concentration	BH-101 SS2	BH-106 SS5	BH-108 SS3	BH-109 SS4
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5
Ethylene dibromide (dibromoethane, 1,2-)	0.2 ug/L	<0.2	<0.2	<0.2
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.2 ug/L	<0.2	<0.2	<0.2
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene	0.2 ug/L	<0.2	<0.2	<0.2
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

	Client ID:	BH-101 SS2	BH-106 SS5	BH-108 SS3	BH-109 SS4
	Sample Date:	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00	02-Jun-21 00:00
	Sample ID:	2124624-01	2124624-02	2124624-03	2124624-04
	MDL/Units	Soil	Soil	Soil	Soil
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
4-Bromofluorobenzene	Surrogate	91.4%	89.2%	90.8%	90.0%
Dibromofluoromethane	Surrogate	63.5%	61.8%	60.0%	61.4%
Toluene-d8	Surrogate	99.4%	99.3%	100%	99.8%

mSPLP Leachate SVOCs

Bis(2-Chloroethyl)ether	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Bis(2-chloroisopropyl)ether	4.0 ug/L	<4.0	<4.0	<4.0	<4.0
4-Chloroaniline	10.0 ug/L	<10.0	<10.0	<10.0	<10.0
3,3'-Dichlorobenzidine	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Diethylphthalate	2.0 ug/L	<2.0	<2.0	<2.0	<2.0
Dimethylphthalate	2.0 ug/L	<2.0	<2.0	<2.0	<2.0
2,4-Dinitrophenol	10.0 ug/L	<10.0	<10.0	<10.0	<10.0
2,4-Dinitrotoluene	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Dinitrotoluene (2,4 & 2,6)	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	0.2 ug/L	<0.2	<0.2	<0.2	<0.2

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Client ID:	BH-110 SS1	-	-	-
Sample Date:	02-Jun-21 00:00	-	-	-
Sample ID:	2124624-05	-	-	-
MDL/Units	Soil	-	-	-

Physical Characteristics

% Solids	0.1 % by Wt.	87.0	-	-	-
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mSPLP Leachate Metals

Antimony	0.5 ug/L	<0.5	-	-	-
Arsenic	1.0 ug/L	<1.0	-	-	-
Barium	1.0 ug/L	5.8	-	-	-
Beryllium	0.5 ug/L	<0.5	-	-	-
Boron	10.0 ug/L	10.7	-	-	-
Cadmium	0.2 ug/L	<0.2	-	-	-
Chromium	1.0 ug/L	<1.0	-	-	-
Cobalt	0.5 ug/L	<0.5	-	-	-
Copper	0.5 ug/L	<0.5	-	-	-
Lead	0.2 ug/L	<0.2	-	-	-
Molybdenum	0.5 ug/L	0.5	-	-	-
Nickel	1.0 ug/L	<1.0	-	-	-
Selenium	1.0 ug/L	<1.0	-	-	-
Silver	0.2 ug/L	<0.2	-	-	-
Thallium	0.5 ug/L	<0.5	-	-	-
Uranium	0.2 ug/L	<0.2	-	-	-
Vanadium	0.5 ug/L	0.7	-	-	-
Zinc	5.0 ug/L	<5.0	-	-	-

mSPLP Leachate VOCs

Bromomethane	0.5 ug/L	<0.5	-	-	-
Carbon Tetrachloride	0.2 ug/L	<0.2	-	-	-
Chloroform	0.5 ug/L	<0.5	-	-	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
Ethylene dibromide (dibromoethane, 1	0.2 ug/L	<0.2	-	-	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,2-Dichloroethane	0.2 ug/L	<0.2	-	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	-	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
cis-1,2-Dichloroethylene	0.2 ug/L	<0.2	-	-	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
1,2-Dichloropropane	0.5 ug/L	<0.5	-	-	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

	MDL/Units	Soil	-	-	-
Client ID:		BH-110 SS1	-	-	-
Sample Date:		02-Jun-21 00:00	-	-	-
Sample ID:		2124624-05	-	-	-
		Soil	-	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	-	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-
Tetrachloroethylene	0.5 ug/L	<0.5	-	-	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	-	-	-
Trichloroethylene	0.5 ug/L	<0.5	-	-	-
4-Bromofluorobenzene	Surrogate	94.5%	-	-	-
Dibromofluoromethane	Surrogate	50.0%	-	-	-
Toluene-d8	Surrogate	101%	-	-	-

mSPLP Leachate SVOCs

Bis(2-Chloroethyl)ether	5.0 ug/L	<5.0	-	-	-
Bis(2-chloroisopropyl)ether	4.0 ug/L	<4.0	-	-	-
4-Chloroaniline	10.0 ug/L	<10.0	-	-	-
3,3'-Dichlorobenzidine	0.5 ug/L	<0.5	-	-	-
Diethylphthalate	2.0 ug/L	<2.0	-	-	-
Dimethylphthalate	2.0 ug/L	<2.0	-	-	-
2,4-Dinitrophenol	10.0 ug/L	<10.0	-	-	-
2,4-Dinitrotoluene	5.0 ug/L	<5.0	-	-	-
2,6-Dinitrotoluene	5.0 ug/L	<5.0	-	-	-
Dinitrotoluene (2,4 & 2,6)	5.0 ug/L	<5.0	-	-	-
2,4,6-Trichlorophenol	0.2 ug/L	<0.2	-	-	-

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
mSPLP Leachate Metals									
Antimony	ND	0.5	ug/L						
Arsenic	ND	1.0	ug/L						
Barium	ND	1.0	ug/L						
Beryllium	ND	0.5	ug/L						
Boron	ND	10.0	ug/L						
Cadmium	ND	0.2	ug/L						
Chromium	ND	1.0	ug/L						
Cobalt	ND	0.5	ug/L						
Copper	ND	0.5	ug/L						
Lead	ND	0.2	ug/L						
Molybdenum	ND	0.5	ug/L						
Nickel	ND	1.0	ug/L						
Selenium	ND	1.0	ug/L						
Silver	ND	0.2	ug/L						
Thallium	ND	0.5	ug/L						
Uranium	ND	0.2	ug/L						
Vanadium	ND	0.5	ug/L						
Zinc	ND	5.0	ug/L						
mSPLP Leachate SVOCs									
Bis(2-Chloroethyl)ether	ND	5.0	ug/L						
Bis(2-chloroisopropyl)ether	ND	4.0	ug/L						
4-Chloroaniline	ND	10.0	ug/L						
3,3'-Dichlorobenzidine	ND	0.5	ug/L						
Diethylphthalate	ND	2.0	ug/L						
Dimethylphthalate	ND	2.0	ug/L						
2,4-Dinitrophenol	ND	10.0	ug/L						
2,4-Dinitrotoluene	ND	5.0	ug/L						
2,6-Dinitrotoluene	ND	5.0	ug/L						
Dinitrotoluene (2,4 & 2,6)	ND	5.0	ug/L						
2,4,6-Trichlorophenol	ND	0.2	ug/L						
Surrogate: 2-Fluorobiphenyl	7.6		ug/L		75.8	40-150			
Surrogate: 2-Fluorophenol	4.3		ug/L		43.4	40-150			
Surrogate: Nitrobenzene-d5	8.8		ug/L		87.8	40-150			
Surrogate: Phenol-d6	2.6		ug/L		26.3	40-150			S-GC
Surrogate: Terphenyl-d14	7.2		ug/L		71.6	40-150			
mSPLP Leachate VOCs									
Bromomethane	ND	0.5	ug/L						
Carbon Tetrachloride	ND	0.2	ug/L						
Chloroform	ND	0.5	ug/L						
1,2-Dichlorobenzene	ND	0.5	ug/L						
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L						
1,4-Dichlorobenzene	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.2	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.2	ug/L						
trans-1,2-Dichloroethylene	ND	0.5	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.5	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
1,3-Dichloropropene, total	ND	0.5	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
1,1,2-Trichloroethane	ND	0.5	ug/L						
Trichloroethylene	ND	0.5	ug/L						
Surrogate: 4-Bromofluorobenzene	78.1		ug/L		97.2	50-140			
Surrogate: Dibromofluoromethane	44.4		ug/L		55.1	50-140			

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<i>Surrogate: Toluene-d8</i>	81.0		ug/L		100	50-140			

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
mSPLP Leachate Metals									
Antimony	ND	0.5	ug/L	ND			NC	50	
Arsenic	ND	1.0	ug/L	ND			NC	50	
Barium	8.94	1.0	ug/L	8.59			4.0	50	
Beryllium	ND	0.5	ug/L	ND			NC	50	
Boron	17.3	10.0	ug/L	ND			NC	50	
Cadmium	ND	0.2	ug/L	ND			NC	50	
Chromium	1.56	1.0	ug/L	1.35			14.3	50	
Cobalt	0.742	0.5	ug/L	ND			NC	50	
Copper	1.27	0.5	ug/L	1.02			22.4	50	
Lead	ND	0.2	ug/L	ND			NC	50	
Molybdenum	1.60	0.5	ug/L	1.21			27.1	50	
Nickel	1.09	1.0	ug/L	ND			NC	50	
Selenium	ND	1.0	ug/L	ND			NC	50	
Silver	ND	0.2	ug/L	ND			NC	50	
Thallium	ND	0.5	ug/L	ND			NC	50	
Uranium	0.375	0.2	ug/L	0.301			22.0	50	
Vanadium	3.46	0.5	ug/L	3.19			8.1	50	
Zinc	ND	5.0	ug/L	ND			NC	50	
Physical Characteristics									
% Solids	83.3	0.1	% by Wt.	82.2			1.3	25	

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
mSPLP Leachate Metals									
Antimony	44.9	0.5	ug/L	ND	89.7	70-130			
Arsenic	51.4	1.0	ug/L	ND	103	70-130			
Barium	55.8	1.0	ug/L	8.59	94.5	70-130			
Beryllium	44.8	0.5	ug/L	ND	89.6	70-130			
Boron	51.2	10.0	ug/L	ND	102	70-130			
Cadmium	47.1	0.2	ug/L	ND	94.1	70-130			
Chromium	48.3	1.0	ug/L	1.35	93.8	70-130			
Cobalt	48.6	0.5	ug/L	ND	97.1	70-130			
Copper	50.1	0.5	ug/L	1.02	98.1	70-130			
Lead	38.6	0.2	ug/L	ND	77.3	70-130			
Molybdenum	54.8	0.5	ug/L	1.21	107	70-130			
Nickel	48.5	1.0	ug/L	ND	97.0	70-130			
Selenium	47.7	1.0	ug/L	ND	95.4	70-130			
Silver	37.7	0.2	ug/L	ND	75.5	70-130			
Thallium	38.7	0.5	ug/L	ND	77.5	70-130			
Uranium	48.2	0.2	ug/L	0.301	95.9	70-130			
Vanadium	52.1	0.5	ug/L	3.19	97.8	70-130			
Zinc	47.5	5.0	ug/L	ND	95.0	70-130			
mSPLP Leachate SVOCs									
Bis(2-Chloroethyl)ether	9.2	5.0	ug/L	ND	92.5	50-140			
Bis(2-chloroisopropyl)ether	9.0	4.0	ug/L	ND	90.5	50-140			
4-Chloroaniline	ND	10.0	ug/L	ND		30-130			QS-01
3,3'-Dichlorobenzidine	5.7	0.5	ug/L	ND	56.7	30-130			
Diethylphthalate	9.1	2.0	ug/L	ND	91.3	50-140			
Dimethylphthalate	8.8	2.0	ug/L	ND	87.6	50-140			
2,4-Dinitrophenol	174	10.0	ug/L	ND	86.9	30-130			
2,4-Dinitrotoluene	9.0	5.0	ug/L	ND	89.6	50-140			
2,6-Dinitrotoluene	9.3	5.0	ug/L	ND	92.5	50-140			
2,4,6-Trichlorophenol	9.6	0.2	ug/L	ND	96.0	50-140			
Surrogate: 2-Fluorobiphenyl	7.5		ug/L		75.1	40-150			
Surrogate: 2-Fluorophenol	3.9		ug/L		38.6	40-150			S-GC
Surrogate: Nitrobenzene-d5	8.2		ug/L		82.2	40-150			
Surrogate: Phenol-d6	2.4		ug/L		23.6	40-150			S-GC
Surrogate: Terphenyl-d14	6.7		ug/L		66.7	40-150			
mSPLP Leachate VOCs									
Bromomethane	36.0	0.5	ug/L	ND	90.0	50-140			
Carbon Tetrachloride	32.4	0.2	ug/L	ND	80.9	50-140			
Chloroform	35.2	0.5	ug/L	ND	87.7	50-140			
1,2-Dichlorobenzene	35.8	0.5	ug/L	ND	89.6	50-140			
Ethylene dibromide (dibromoethane, 1,2-	35.0	0.2	ug/L	ND	87.1	50-140			
1,4-Dichlorobenzene	35.4	0.5	ug/L	ND	87.9	50-140			
1,2-Dichloroethane	32.0	0.2	ug/L	ND	79.5	50-140			
1,1-Dichloroethane	35.7	0.5	ug/L	ND	89.3	50-140			
1,1-Dichloroethylene	33.9	0.5	ug/L	ND	84.8	50-140			
cis-1,2-Dichloroethylene	32.8	0.2	ug/L	ND	81.6	50-140			
trans-1,2-Dichloroethylene	32.1	0.5	ug/L	ND	79.9	50-140			
1,2-Dichloropropane	35.6	0.5	ug/L	ND	88.9	50-140			
cis-1,3-Dichloropropylene	33.6	0.5	ug/L	ND	84.0	50-140			

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
trans-1,3-Dichloropropylene	33.7	0.5	ug/L	ND	83.9	50-140			
1,1,1,2-Tetrachloroethane	37.3	0.5	ug/L	ND	93.3	50-140			
1,1,2,2-Tetrachloroethane	35.8	0.5	ug/L	ND	89.0	50-140			
Tetrachloroethylene	35.6	0.5	ug/L	ND	88.6	50-140			
1,1,2-Trichloroethane	36.2	0.5	ug/L	ND	90.0	50-140			
Trichloroethylene	36.5	0.5	ug/L	ND	90.7	50-140			
Surrogate: 4-Bromofluorobenzene	82.6		ug/L		103	50-140			
Surrogate: Dibromofluoromethane	79.0		ug/L		98.0	50-140			
Surrogate: Toluene-d8	79.8		ug/L		99.0	50-140			

Certificate of Analysis

Report Date: 17-Jun-2021

Client: Wood Environment & Infrastructure (Windsor)

Order Date: 3-Jun-2021

Client PO: OGTW2137.2000

Project Description: OGTW2137.2000

Qualifier Notes:

QC Qualifiers :

QS-01 : Spike Level is less than the reporting MDL, however, recovery was acceptable.

S-GC : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis when the units are denoted with 'dry'.
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

OPARA



Parcel ID: 2124624

Chain of Custody
(Lab Use Only)

Page 1 of 3

Client Name: Wood E&I Solutions
Client Address: 11865 County Road 42, Focansh, Ontario, N0N 2M1
Phone: 519-206-2499
Email: info@wood-e-i.com

Project Reference: OGTW2137.2000
Order #: 20-286
PO #: OGTW2137.2000
Email Address: cory.mace@wood-e-i.com

Required Analytes:
 O Reg. 406 Metals
 O Reg. 406 VOCs
 O Reg. 406 PCBs
 O Reg. 406 Pesticides

Parcel Order Number: **2124624**

Sample ID	Location Name	Matrix	Air Volume	# of Containers	Date	Time	Required Analytes	EC, SAR, pH	O Reg. 406 Metals	O Reg. 406 VOCs	SPLP VOC, ABN, ICP Metals
1	09-101 SS1	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	09-102 SS2	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	09-103 SS3	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	09-104 SS4	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	09-105 SS5	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	09-106 SS6	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	09-107 SS7	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	09-108 SS8	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	09-109 SS9	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	09-110 SS10	S	3	3	2-June-21	-	PHCs F1-F4-BTEX VOCs PAHs Metals by ICP Hg CuVI B (HWS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Use COC sample ID if difference between COC and soil jar
Compare to Table 1 SCS and Table 3.1

Received By: Doree Doyce
Date/Time: June 3, 2021
Temperature: 7°C

Received At Lab:
Date/Time: 4-June-21 11:33
Temperature: 3.1°C

Verified By: AOS
Date/Time: 4-June-21 11:35
Full Verified: []

Method of Delivery: *curtain*

OPARA



Parcel ID: 2124624

Chain of Custody
(Lab Use Only)

Page 2 of 3

Client Name: Wood EM Solutions
 Contact Name: Craig McKee
 Address: 11865 County Road 42 Tecumseh, Ontario, M9W 2B1
 Telephone: 519-734-2499
 Email: craig.mckee@woodem.com

Project Reference: OGTW2137 2000
 Date: 20-06
 PO#: OGTW2137 2000
 Email Address: craig.mckee@woodem.com

Project Address: 11865 County Road 42 Tecumseh, Ontario, M9W 2B1
 Project Manager: Terry Spindler@woodem.com

Matrix Type: Soil Ground Water Sewer Water Stormwater Other

Required Analyses: PCBs F1-F4-BTEX VOCs PAHs Metals by ICP Hg Cu Ni (HWS) EC, SAR, pH O Reg. 406 Metals O Reg. 406 VOCs SPLP VOC, ABN, ICP Metals

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Required Analyses											
				Date	Time	PCBs F1-F4-BTEX	VOCs	PAHs	Metals by ICP	Hg	Cu	Ni (HWS)	EC, SAR, pH	O Reg. 406 Metals	O Reg. 406 VOCs	SPLP VOC, ABN, ICP Metals	
1 BH-005 S51	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 BH-005 S52	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 BH-005 S51	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 BH-005 S53	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 BH-005 S55	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 BH-007 S51	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 BH-007 S52	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 BH-107 S54	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 BH-108 S51	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 BH-108 S52	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: Use COC sample ID if reference between COC and soil jar

Complies to: Table 1 SCS and Table 3.1

Received by: [Signature]

Date/Time: 4-June-21 11:33

Temperature: 5.1 °C

Received at Lab: [Signature]

Date/Time: 4-June-21 11:33

Temperature: 5.1 °C

Verified By: [Signature]

Date/Time: 4-June-21 11:33

Temp Verified [] by:

OPARACE

Parcel ID: 2124624



Chain of Custody (Lab Use Only)

Page 2 of 3

Client Name: Wood Felt Solutions
 Client Name: Cong Merve
 Address: 11655 Cherry Road 42 Tustin, CA 92680
 Telephone: 515-26-0488
 Email Address: cong_merve@oparace.com
 Website: www.oparace.com

Project Reference: OGTW2137.2000
 Queue #: 20006
 NO2: OGTW2137.2000

Method: Reg. 319/314 (As Amended) Table ISG (Imp) O Reg. 406/408 P1000 C3X/LE SEB (Semi) SEB (Sanitary) Analytical

Required Analyzes: EC, SAR, pH

O Reg 406 Metals O Reg 406 VOCs

SPLP VOC, ABN, ICP Metals

Lab Requested: 1 Day 3 Day 5 Day 7 Day

Parcel Order Number: [Redacted]

Use VOC sample ID if difference between COC and soil jar
 Compare to Table 1 SCS and Table 3.1

Sample ID/Portion Name	Matrix	Air Volume	# of Containers	Sample Taken		Required Analyzes												
				Date	Time	PIC's 11-14+BTX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	EC, SAR, pH	O Reg 406 Metals	O Reg 406 VOCs	SPLP VOC, ABN, ICP Metals		
1 BH-12 SCS	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 BH-19S SCS	S	2	2	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 BH-19S SCS	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 BH-19S SCS	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 BH-10 SCS	S	3	3	2-June-21	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6 BH-10 SCS	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 DDP-1	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 DDP-2	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 DDP-3	S	3	3	2-June-21	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Received by: [Signature] Date/Time: June 21 11:33
 Received at Lab: [Signature] Date/Time: June 21 11:33
 Verified by: [Signature] Date/Time: June 21 11:33

Appendix C

Data Validation

Appendix C: Soil Data Validation
 Soil Characterization Program - 0 Wyandotte Street East, Windsor, Ontario
 Lankor Horizons Inc.

Parameter	Units	Inferred Laboratory Detection Limit	Soil Field Duplicate BH-102 SS1 & DUP-1			Soil Field Duplicate BH-105 SS1 & DUP-2		
			Result 1	Result 2	RPD %	Result 1	Result 2	RPD %
% Solids	% by Wt.	0.1	87	87	0.0	87.8	83.1	5.5
pH (Lab)	pH Units	0.05	7.41	7.35	0.8	7.44	7.33	1.5
Cyanide, free	ug/g dry	0.03	ND (0.03)	ND (0.03)	-	ND (0.03)	ND (0.03)	-
Electrical Conductivity (Lab)	uS/cm	5	147	163	10.3	160	190	17.1
Sodium Absorption Ratio	N/A	0.01	0.18	0.17	5.7	0.2	0.22	9.5
Benzene	ug/g dry	0.02	ND (0.02)	ND (0.02)	-	ND (0.02)	ND (0.02)	-
Toluene	ug/g dry	0.05	ND (0.05)	ND (0.05)	-	ND (0.05)	ND (0.05)	-
Ethylbenzene	ug/g dry	0.05	ND (0.05)	ND (0.05)	-	ND (0.05)	ND (0.05)	-
Xylene (m & p)	ug/g dry	0.05	ND (0.05)	ND (0.05)	-	ND (0.05)	ND (0.05)	-
Xylene (o)	ug/g dry	0.05	ND (0.05)	ND (0.05)	-	ND (0.05)	ND (0.05)	-
Xylene Total	ug/g dry	0.05	ND (0.05)	ND (0.05)	-	ND (0.05)	ND (0.05)	-
PHC F1 (C6-C10)	ug/g dry	7	ND (7)	ND (7)	-	ND (7)	ND (7)	-
PHC F2 (>C10-C16)	ug/g dry	4	ND (4)	ND (4)	-	ND (4)	ND (4)	-
PHC F3 (>C16-C34)	ug/g dry	8	ND (8)	ND (8)	-	ND (8)	ND (8)	-
PHC F4 (>C34-C50)	ug/g dry	6	ND (6)	ND (6)	-	ND (6)	ND (6)	-
Antimony	ug/g dry	1	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (1.0)	-
Arsenic	ug/g dry	1	6.5	9.6	38.5	7.1	7.2	1.4
Barium	ug/g dry	1	50.1	74.1	38.6	53.6	75.7	34.2
Beryllium	ug/g dry	0.5	ND (0.5)	0.6	-	0.5	0.7	33.3
Boron	ug/g dry	5	12.4	12.5	0.8	10.7	11.2	4.6
Cadmium	ug/g dry	0.5	ND (0.5)	ND (0.5)	-	ND (0.5)	ND (0.5)	-
Chromium (Hexavalent)	ug/g dry	0.2	ND (0.2)	ND (0.2)	-	ND (0.2)	0.3	-
Chromium (Total, III+VI)	ug/g dry	5	16.1	18.5	13.9	14.9	21.6	36.7
Cobalt	ug/g dry	1	7	10.2	37.2	6.7	7.6	12.6
Copper	ug/g dry	5	14	17	19.4	13.8	15.6	12.2
Lead	ug/g dry	1	8.3	10.3	21.5	7.5	11.5	42.1
Mercury	ug/g dry	0.1	ND (0.1)	ND (0.1)	-	ND (0.1)	ND (0.1)	-
Molybdenum	ug/g dry	1	2	2.6	26.1	1.7	1.2	34.5
Nickel	ug/g dry	5	20.7	27.6	28.6	19.5	22.9	16.0
Selenium	ug/g dry	1	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (1.0)	-
Silver	ug/g dry	0.3	ND (0.3)	ND (0.3)	-	ND (0.3)	ND (0.3)	-
Thallium	ug/g dry	1	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (1.0)	-
Uranium	ug/g dry	1	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (1.0)	-
Vanadium	ug/g dry	10	26.2	32.4	21.2	24.8	35	-
Zinc	ug/g dry	20	38.1	47.4	21.8	36.5	47.6	-

Notes:

1. Red fill and text indicate a calculated RPD of greater than 50% (the Dillon Quality Objective target), where applicable.
2. Laboratory detection limits were inferred from the lowest significant digit in the analyzed parameter.
3. 'ND', denotes 'no data', as the result was below the laboratory's method detection limit.
4. Soil sampling and lab submission was completed by Wood.