



The Brock Zents Partnership

**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT**

2660, 2670, 2680 Brock Road, Pickering, Ontario

FINAL REPORT

MAY 27, 2021

Terrapex Environmental Ltd.
90 Scarsdale Road
Toronto, Ontario, M3B 2R7
Telephone: (416) 245-0011
Website: www.terrapex.com

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	1
2.0	INTRODUCTION.....	4
2.1	SITE DESCRIPTION	4
2.2	PROPERTY OWNERSHIP	5
2.3	CURRENT AND PROPOSED FUTURE USES	5
2.4	APPLICABLE SITE CONDITION STANDARDS	5
3.0	BACKGROUND INFORMATION	7
3.1	PHYSICAL SETTING.....	7
3.1.1	WATER BODIES & AREAS OF NATURAL SIGNIFICANCE	7
3.1.2	TOPOGRAPHY & SURFACE WATER DRAINAGE	7
3.2	PAST INVESTIGATIONS.....	8
	<i>Hydrogeological Review</i>	8
	<i>Geotechnical Investigation</i>	9
4.0	SCOPE OF INVESTIGATION	10
4.1	OVERVIEW OF SITE INVESTIGATION	10
4.2	MEDIA INVESTIGATED	11
4.3	PHASE ONE CONCEPTUAL SITE MODEL	11
4.4	DEVIATIONS FROM THE SAMPLING AND ANALYSIS PLAN.....	13
4.5	IMPEDIMENTS	13
5.0	INVESTIGATION METHOD	14
5.1	GENERAL.....	14
5.2	DRILLING	14
5.3	SOIL	15
5.3.1	SOIL SAMPLING.....	15
5.3.2	FIELD SCREENING MEASUREMENTS	16
5.4	GROUNDWATER.....	16
5.4.1	MONITORING WELL INSTALLATION.....	16
5.4.2	MONITORING WELL DEVELOPMENT METHOD.....	16
5.4.3	FIELD MEASUREMENTS OF WATER QUALITY PARAMETERS	17
5.4.4	GROUNDWATER SAMPLING	17
5.5	SEDIMENT	18

5.6.1	SEDIMENT SAMPLING.....	18
5.6	ANALYTICAL TESTING.....	18
5.7	RESIDUE MANAGEMENT PROCEDURES.....	19
5.8	ELEVATION SURVEYING.....	19
5.9	QUALITY ASSURANCE AND QUALITY CONTROL MEASURES.....	19
6.0	REVIEW AND EVALUATION.....	21
6.1	GEOLOGY.....	21
6.2	GROUNDWATER ELEVATIONS AND FLOW DIRECTION.....	21
6.3	GROUNDWATER HYDRAULIC GRADIENTS.....	22
6.4	FINE-MEDIUM SOIL TEXTURE.....	22
6.5	SOIL FIELD SCREENING.....	22
6.6	SOIL QUALITY.....	22
6.7	GROUNDWATER QUALITY.....	23
6.8	SEDIMENT QUALITY.....	24
6.9	QUALITY ASSURANCE AND QUALITY CONTROL RESULTS.....	24
6.10	PHASE TWO CONCEPTUAL SITE MODEL.....	26
7.0	CONCLUSIONS.....	33
7.1	SIGNATURES.....	33
8.0	REFERENCES.....	35

TABLE OF CONTENTS (CONTINUED)

FIGURES

Figure 1	Site Location
Figure 2	General Site Layout
Figure 3	Conceptual Site Model – Phase One Study Area
Figure 4	Conceptual Site Model – Potentially Contaminating Activities
Figure 5A	Conceptual Site Model – Areas of Potential Concern
Figure 5B	Conceptual Site Model – Areas of Potential Concern and Sample Locations
Figure 6	Interpreted Groundwater Flow (As of October 27, 2021)
Figure 7A	Cross Section Locations
Figure 7B	Cross Section A-A'
Figure 7C	Cross Section B-B'
Figure 8A	Soil Analytical Results – Metals
Figure 8B	Soil Analytical Results – Hydride-forming Metals
Figure 8C	Soil Analytical Results – Boron HWS
Figure 8D	Soil Analytical Results – Hexavalent Chromium
Figure 8E	Soil Analytical Results – Cyanide
Figure 8F	Soil Analytical Results – Mercury
Figure 8G	Soil Analytical Results – Electrical Conductivity and Sodium Adsorption Ratio
Figure 8H	Soil Analytical Results – pH
Figure 8I	Soil Analytical Results – PAHs
Figure 8J	Soil Analytical Results – BTEX
Figure 8K	Soil Analytical Results – PHCs
Figure 8L	Soil Analytical Results – VOCs
Figure 9A	Groundwater Analytical Results – Metals
Figure 9B	Groundwater Analytical Results – Hydride-forming Metals
Figure 9C	Groundwater Analytical Results – Other Regulated Parameters
Figure 9D	Groundwater Analytical Results - PAHs
Figure 9E	Groundwater Analytical Results - BTEX
Figure 9F	Groundwater Analytical Results - PHCs
Figure 9G	Groundwater Analytical Results - VOCs
Figure 10A	Soil Analytical Results (Post Fill Pile Removal) – Metals
Figure 10B	Soil Analytical Results (Post Fill Pile Removal) – Boron HWS
Figure 10C	Soil Analytical Results (Post Fill Pile Removal) – PAHs

TABLE OF CONTENTS (CONTINUED)

TABLES

Table 1A	Well Construction Details
Table 1B	Groundwater Levels
Table 2A	Soil Analytical Results – Metals and Inorganics
Table 2B	Soil Analytical Results – PAHs
Table 2C	Soil Analytical Results – BTEX and PHCs
Table 2D	Soil Analytical Results – VOCs (excluding BTEX)
Table 3A	Groundwater Analytical Results – Metals and Inorganics
Table 3B	Groundwater Analytical Results – PAHs
Table 3C	Groundwater Analytical Results - BTEX and PHCs
Table 3D	Groundwater Analytical Results – VOCs (excluding BTEX)

APPENDICES

Appendix I	Plan of Survey and Proposed Development Plan
Appendix II	Sampling and Analysis Plan
Appendix III	Borehole Logs
Appendix IV	Grain Size Analyses
Appendix V	Laboratory Certificates of Analyses
Appendix VI	Fill Management Report Letter
Appendix VII	Qualifications of the Assessors

LIST OF ACRONYMS

amsl	Above mean sea level
ANSI:	Area of Natural or Scientific Interest
APEC:	Area of Potential Environmental Concern
AST:	Aboveground Storage Tank
BH:	Borehole
BTEX:	Benzene, Toluene, Ethylbenzene, and Xylenes
CALA:	Canadian Analytical Laboratories Association
COC:	Contaminant of Concern
COPC:	Contaminant of Potential Concern
CSA:	Canadian Standards Association
CSM:	Conceptual Site Model
CV:	Combustible Vapour
DO:	Dissolved Oxygen
DNAPL:	Dense Non-aqueous Phase Liquid
EC:	Electrical Conductivity
ERIS:	Environmental Risk Information Service Ltd.
EPA:	Environmental Protection Act
ESA:	Environmental Site Assessment
F1-F4	Petroleum hydrocarbon fractions 1 through 4 of the CCME Canada Wide Standards
HDPE:	High density polyethylene
LDPE:	Low density polyethylene
LEL:	Lower Explosive Limit
LNAPL:	Light Non-aqueous Phase Liquid
LPH:	Liquid-Phase Petroleum Hydrocarbons (free-product)
MECP:	Ministry of Environment, Conservation and Parks
mg/kg:	milligrams per kilogram
m bg	metres below grade
mg/L:	milligrams per litre
MGRA:	Modified Generic Risk Assessment (under O. Reg. 153/04)
MNR:	Ontario Ministry of Natural Resources
MOE:	Ontario Ministry of Environment
MOECC:	Ontario Ministry of Environment and Climate Change
MW:	Monitoring well
NAPL:	Non-aqueous Phase Liquid
NHIC:	Natural Heritage Information Centre
ORP:	oxidation-reduction potential
OSHA:	Occupational Safety and Health Act
PAHs:	Polycyclic Aromatic Hydrocarbons
PCA:	Potentially Contaminating Activity (from O. Reg. 153/04)
PCBs:	Polychlorinated Biphenyls
PHC:	Petroleum Hydrocarbon
PID:	Photo Ionization Detector
ppm:	Parts Per Million
PVC:	Polyvinyl chloride
QA:	Quality Assurance
QC:	Quality Control

LIST OF ACRONYMS (CONTINUED)

QP:	Qualified Person under O. Reg. 143/04
RA:	Risk Assessment
RAP:	Remedial Action Plan
RDL:	Reportable Detection Limit
RSC:	Record of Site Condition (under O. Reg. 153/04)
R.R.O. 1990:	Revised Regulations of Ontario, 1990.
SAR:	Sodium Adsorption Ratio
SCC:	Standards Council of Canada
SCS:	Site Condition Standards (from O. Reg. 153/04)
SOP:	Standard Operating Procedure
SV:	Soil Vapour
SVOCs:	Semi-Volatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure (Reg. 558/00)
TOC:	Total Organic Carbon
TP:	Test Pit
TPH:	Total Petroleum Hydrocarbons
UST:	Underground Storage Tank
VOCs:	Volatile Organic Compounds
WWIS:	Water Well Information System

1.0 EXECUTIVE SUMMARY

Terrapex Environmental Ltd. (Terrapex) was retained by The Brock Zents Partnership (Brock Zents) to conduct a Phase Two Environmental Site Assessment (ESA) of the property with the municipality address of 2660, 2670 and 2680 Brock Road and the adjacent City-owned lands to the north in Pickering (referenced variously as the “Phase Two Property” or the “Site”). It is currently proposed to redevelop the Site for residential use. Therefore, the Phase Two ESA documented herein is being undertaken to support the filing of a Record of Site Condition per Ontario Regulation 153/04, *Records of Site Condition - Part XV.1 of the Act* for the Site.

The objective of the Phase Two ESA was to assess Areas of Potential Environmental Concern (APECs) identified during a previous Phase One ESA work program at the Site in order to identify the location and concentration of contaminants, and (if necessary) to remediate contaminant found in the land or water on, in, or under the Phase Two property.

The Site is irregular in shape, comprises an area of approximately 3,950 m² (0.40 hectares), and is located on the southwest corner of the intersection of Zents Drive and Brock Road in Pickering, Ontario. The Site has been vacant since 2002, after being used for agricultural purposes since 1946. Two unoccupied residential buildings are in the southeast portion of the Site, and are surrounded by overgrown vegetation, building debris, and soil stockpiles. The remainder of the Phase Two Property covered by vegetation and wooded areas. The Site is bordered by residential properties to the south and east beyond Brock Road, Zents Drive to the north and a wooded area to the west.

The property is bordered by residential properties to the south and east beyond Brock Road, Zents Drive to the north and vacant properties beyond, and wooded area to the west.

The Site slopes generally to the southeast towards a tributary of Duffins Creek, which flows south towards Lake Ontario. The elevation of the Site is approximately 130 m above mean sea level (amsl).

At the time of this investigation, there were two vacant residential dwellings on the Phase Two Property. We understand that the Site will be developed with several blocks of 3-storey above grade townhouses without basement levels.

Based on a Phase One ESA study of the Site, the Phase Two ESA was undertaken to assess three on-site areas of potential environmental concern (APECs).

Between April 30 and May 7, 2018, 10 boreholes (MW1D, BH2, MW3D, MW4, MW5, BH6, BH7, MW8D, BH9, and MW10) were advanced to depths ranging between 8.3 m and 15.4 m bg. Six borehole locations (MW1S/D, MW3S/D, MW4, MW5, MW8S/D, and MW10) were equipped with monitoring wells, with three of the locations being installed with multi-depth well clusters

comprising shallow and deep monitoring wells (MW1S/MW1D, MW3S/MW3D, and MW8S/MW8D).

On October 5, 2021 six boreholes (BH201, BH202, MW203, BH204, BH205, MW206) were advanced to depths ranging between 6.2 m and 6.7 m bg. Monitoring wells were installed in two of the boreholes (MW203 and MW206).

Selected soil samples recovered from the newly advanced boreholes were submitted for laboratory analyses for a variety of parameters including metal and inorganic parameters, polycyclic aromatic hydrocarbons (PAHs), benzene, toluene, ethylbenzene, and xylenes (collectively, BTEX) and the F1, F2, F3, and F4 petroleum hydrocarbon (PHC) parameters, and volatile organic compounds (VOCs, excluding BTEX). Selected groundwater samples recovered from the newly installed monitoring wells were submitted for laboratory analyses of metal and inorganic parameters, PAHs, BTEX, PHCs, and VOCs.

Full Depth Generic Site Condition Standards applicable to residential, parkland, or institutional property use for coarse textured soils that are listed in Table 2 of the April 15, 2011 MECP *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* document (hereafter referenced as the Table 2 SCS) are considered appropriate for evaluating laboratory analytical results for the Site.

Based on the results of the Phase Two ESA, the following contaminants were identified at the Site at concentrations exceeding the Table 2 SCS:

Soil:

- Metals: nickel;
- Other Regulated Parameters: boron (hot water soluble); and,
- PAHs: benzo(a)pyrene, dibenz(a,h)anthracene, fluoranthene, and indeno(1,2,3-cd)pyrene.

Contaminants were not identified in native soils at the Site. Contaminants were only identified within fill piles, and the fill piles were subsequently removed from the Site and documented in the report entitled *Fill Pile Management Report Letter, 2660-2680 Brock Road, Pickering Ontario*, dated May 26, 2022 and included in Appendix VI. Therefore, based on the current site conditions, all remaining soil analyzed on-site meets the Table 2 SCS.

Concentrations of the tested parameters in the analysed groundwater samples were less than the Table 2 SCS.

Sediment is not present at the Site, and therefore contaminants of concern are not present within sediment.

The Phase Two ESA investigation of the Site, as documented in this report, identified concentrations of Contaminants of Concern (COCs) soil and groundwater in excess of the generic Table 2 SCS. As such, further work is not anticipated to be required at the Site in order to file a Record of Site Condition.

2.0 INTRODUCTION

Terrapex Environmental Ltd. (Terrapex) was retained by The Brock Zents Partnership (Brock Zents) to conduct a Phase Two Environmental Site Assessment (ESA) of the property with the municipality address of 2660, 2670 and 2680 Brock Road and the adjacent City-owned lands to the north in Pickering (referenced variously as the “Phase Two Property” or the “Site”).

It is understood that the studies are required for submissions to the municipality associated with the redevelopment of the Site, and may include the filing of a Record of Site Condition (RSC).

The objective of the investigation was to assess Areas of Potential Environmental Concern (APECs) identified during a previous Phase One ESA work program at the Site in order to identify the location and concentration of contaminants in the land or water on, in, or under the Phase Two Property, and (if necessary) to remediate contaminants found in the land or water on, in, or under the Phase Two property.

The findings of the Phase One ESA are documented in Terrapex's report entitled *Phase One Environmental Site Assessment, Part of Lot 19, Concession 3; Part 3 on Plan 40R-27228 Pickering, Ontario, Final Report*, dated May 26, 2022.

2.1 SITE DESCRIPTION

The Site is irregular in shape, comprises an area of approximately 3950 m² (0.40 hectares), and is located on the southwest corner of the intersection of Zents Drive and Brock Road in Pickering, Ontario. The Site has been vacant since 2002, after being used for agricultural purposes since 1946. Two unoccupied residential buildings are in the southeast portion of the Site, and are surrounded by overgrown vegetation, building debris, and soil stockpiles. The remainder of the Phase Two Property covered by vegetation and wooded areas. The Site is bordered by residential properties to the south and east beyond Brock Road, Zents Drive to the north and a wooded area to the west.

The legal description of the Site is as follows:

2660 Brock Road: [REDACTED], with an assigned Property Identification Number (PIN) of [REDACTED].

2670 Brock Road: [REDACTED], with an assigned Property Identification Number (PIN) of [REDACTED].

2680 Brock Road: [REDACTED], with an assigned Property Identification Number (PIN) of [REDACTED].

A Site location plan is provided as Figure 1. Figure 2 shows the layout of the property at the time of the Phase Two ESA.

The Brock Zents provided a plan of survey entitled *Part of Lots 1, 2, and 3, Registered Plan 585, City of Pickering*, prepared by KRCMAR Surveyors Ltd., OLS, dated February 26, 2018. A copy of the plan of survey is included in Appendix I.

2.2 PROPERTY OWNERSHIP

The registered owner of the Brock Zents Partnership. Authorization to proceed with the study was provided by Mr. Adam Layton at The Brock Zents Partnership, 8481 Keele Street, Unit 12, Vaughn, Ontario, L4K 1Z7.

2.3 CURRENT AND PROPOSED FUTURE USES

The Site was first developed for agricultural purposes and is presently vacant residential. However, historical aerial photographs appear to indicate that undocumented industrial activities (possible salvage yard) occurred at the Site in the early 2000s. Therefore, the current land use of the Site is conservatively considered to be industrial per the definitions of the Ontario *Records of Site Condition – Part XV.1 of the Act* regulation (O. Reg. 153/04).

The Site will be developed for residential use, and the proposed future use of the Site is expected to be “residential property use” per Section 14.5 and 14.8 of O. Reg. 153/04. A copy of the proposed redevelopment plan is included in Appendix I.

2.4 APPLICABLE SITE CONDITION STANDARDS

Generic Ministry of the Environment, Conservation and Parks (MECP, previously Ministry of the Environment and Climate Change, MOECC, previously Ministry of the Environment (MOE)) Site Condition Standards (SCS) for evaluating laboratory analytical results were selected from the April 15, 2011, *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (MOE, 2011) document on the basis of the criteria specified in O. Reg. 153/04.

The Site specific details which influenced the soil and groundwater standards selection are summarized below:

- the Site is not within or adjacent to an area of natural significance as defined within Section 1 (1) of O. Reg. 153/04, and do not include land within 30 m of an area of natural significance;
- the pH determined for “surface” soil samples (representative of depths not exceeding 1.5 m below ground surface, excluding any surface treatment) analysed as part of the

Phase Two ESA ranged from 7.20 to 7.78, which is between the prescribed values of 5 to 9 for the application of generic Site Condition Standards;

- the pH determined for “subsurface” soil samples (representative of depths greater than 1.5 m below ground surface, excluding any surface treatment) analysed as part of the Phase Two ESA ranged from 7.65 to 7.73, which is between the prescribed values of 5 to 11 for the application of generic Site Condition Standards;
- more than 2 m of overburden was observed over at least two-thirds of the area of the Site;
- the Site does include a waterbody, and is not within 30 m of a waterbody;
- stratified site conditions will not be used when evaluating laboratory analytical results;
- current use of the Site is considered to be residential and commercial;
- proposed future use of the Site is expected to be residential;
- potable water at other properties located (in whole or in part) within 250 m of the Site, may be supplied by water supply wells used or intended for use as a source of water for human consumption or for agriculture;
- the Site is not located in an area designated in a municipal Official Plan as a well-head protection area, or another designation by the municipality intended for the protection of groundwater; and,
- soil texture at the Site has been classified as “coarse-textured” based on the result of grain size analysis conducted as part of Terrapex’s geotechnical investigation on nine representative soil samples (BH1-S7, BH3-S7, BH4-S7A, BH4-S9, BH5-S9, BH6-S3, BH6-6, BH6-S9, and BH6-S12).

Based on the above, Full Depth Generic SCS applicable to residential, parkland, or institutional property use that are listed in Table 2 of the April 15, 2011 MECP *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* document (hereafter referenced as the Table 2 SCS) are considered appropriate for evaluating laboratory analytical results.

3.0 BACKGROUND INFORMATION

3.1 PHYSICAL SETTING

3.1.1 WATER BODIES & AREAS OF NATURAL SIGNIFICANCE

Water Bodies: Based on the review of the aerial photographs, satellite images, and topographic maps, the Site does not include and is not adjacent to, or within 30 m of a water body, as defined in O. Reg. 153/04.

Areas of Natural Significance: As indicated in Section 4.2.3, information from the Town of Pickering Official Plan and Mapping website, MNRF, and ERIS mapping, the Site does not include, and is not within, adjacent to, or within 30 m of an area of natural significance, as defined in O. Reg. 153/04. However, Schedule III B of the Town of Pickering Official Plan identifies woodland located on-site as “Significant Woodland”.

3.1.2 TOPOGRAPHY & SURFACE WATER DRAINAGE

Topographic Mapping: Based on contour information obtained from the Atlas of Canada Toporama, the 1:22,000 Ontario Base Map (OBM) included in ERIS from Ontario Ministry of Natural Resources and the Vu Map application, the land in the vicinity of the subject property slopes generally to the southeast towards a tributary of Duffins Creek, which flows south towards Lake Ontario. The elevation of the Site is approximately 130 m above mean sea level (amsl).

Geologic Mapping: The site is located in a physiographic region known as the Iroquois Plain. The Iroquois Plain cut in previously deposited clay and till, is partly floored with sand deposits. The sands and gravels were deposited by Lake Iroquois, but the clay is pre-Iroquoian age. Bedrock geology consists of upper Ordovician shale, limestone, dolostone, and siltstone of the Georgian Bay Formation.

Surface Water Drainage: Surface water drainage is primarily infiltration through the ground surface.

Interpreted Direction of Groundwater Flow: Based on topography, the general regional groundwater flow is assumed to be southwest towards a tributary of Duffins Creek, located approximately 150 m southeast and 500 m east of the Site. This water body ultimately discharges into Lake Ontario, a known regional groundwater discharge zone. It should be recognized the local groundwater flow may also be influenced by local subsurface structures and utilities.

3.2 PAST INVESTIGATIONS

As part of the scope of the Phase One ESA, previous reports prepared for the Site by Terrapex were reviewed.

- *Hydrogeological Review, Townhouses and Mid-Rise Residential Development, 2660 to 2680 Brock Road and Part of Lot 19, Concession 3: Part 3 and Part 4 on Plan 40R-27228, Pickering, Ontario, Final Report*, prepared by Terrapex, May 26, 2022
- *Geotechnical Investigation Report, Proposed Residential Development, 2660, 2670, and 2680 Brock Road and Part of Lot 19, Concession 3: Part 3 and Part 4 on Plan 40R-27228, Pickering, Ontario*, prepared by Terrapex, August 23, 2019, Revised February 2, 2022 (Final)

A summary of pertinent investigation findings presented in these documents is presented below in chronological order of work being completed.

Hydrogeological Review

A drilling program was conducted between April 30, 2018, and June 2019, to serve the dual purposes of this hydrogeological review and the geotechnical assessment. Relevant findings of the study are listed as follows:

- Twelve (12) boreholes were drilled, eight were installed with monitoring wells.
- One groundwater sample was obtained and analyzed for quality parameters listed by the Durham Region sewers bylaw criteria. Three suites of groundwater levels were observed. Infiltration rate percolation tests were performed.
- The reported concentrations of the groundwater collected from a monitoring well south of the subject site complied with the chemical criteria specified under the Region of Durham bylaw for sanitary sewers and most criteria for the storm sewer. Total suspended solids (TSS), manganese and zinc were elevated above the storm sewer criteria. The concentration of zinc detected meets the Table 1 SCS. TSS and manganese do not have corresponding Table 1 SCS, are considered naturally occurring parameters, and are not of environmental concern.
- The water table was encountered at an average depth of 1.6 metres below ground and an average elevation of 128.8 metres above sea level, with variation.
- This position indicates the excavation of the proposed parking garage and construction trenches for piping will require groundwater control. The parking garage will require foundation drainage in post-construction. A permit to take water is required for construction dewatering and for foundation drainage.

Geotechnical Investigation

Terrapex conducted a geotechnical investigation in conjunction with a hydrogeological review between April 2018 and June 2019, at the Site and properties adjacent south of the Site. Relevant findings of the study are listed as follows:

- Ten (10) boreholes were advanced to depths of approximately 8.3 m and 15.4 m below grade (bg.). Six borehole locations (MW1S/D, MW3S/D, MW4, MW5, MW8S/D, and MW10) were equipped with monitoring wells, with three of the locations being installed with multi-depth well clusters comprising shallow and deep monitoring wells (MW1S/MW1D, MW3S/MW3D, and MW8S/MW8D).
- The soil stratigraphy encountered at the subject site was a surface cover of up to 250 mm topsoil, underlain by variable hard sandy clayey silt (till), very dense sand and silt (till), dense to very dense sandy silt to silty sand, and very dense gravelly sand to sandy gravel soils at various depths.
- On June 12, 2019, two soil samples were obtained from the topsoil at the subject site which were submitted to the laboratory analysis of metals, hydride forming metals, and organochlorine pesticide (OCPs). The laboratory results were compared to the generic Ministry of the Environment, Conservation and Parks (MECP) Site Condition Standards (SCS) outlined in Table 1 (Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use) of the current version of *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act document* (MECP, 2011; hereafter referenced as the *Table 1 SCS*).
- The Table 1 SCSs for soils are referenced as "Typical Background" standards for residential, parkland, institutional, industrial, commercial, and community land use (that is, upper-bound concentration limits generally associated with soils unaffected by point-source impacts). Soil meeting MECP Table 1 SCSs would generally be accepted as inert fill ("clean fill") for off-site disposal.
- As indicated on the Certificate of Analysis attached in the report, the analytical results of the soil samples tested for the selected parameters met the Table 1 SCS. Therefore, the soil can be removed from the Site as "clean fill" or "inert fill" and placed at any non-agricultural property willing to accept the material.

4.0 SCOPE OF INVESTIGATION

4.1 OVERVIEW OF SITE INVESTIGATION

The scope of Terrapex's assessment comprised the following:

- preparing a sampling and analysis plan which identified target sampling locations and associated rationale, a proposed laboratory analytical program, sample containers and preservation methods, and the number and type of Quality Control (QC) samples;
- advancing six new boreholes to depths between 6.1 m and 6.7 m adv bg using a M55-21 track-mounted drill rig with standard hollow stem and split spoon sampling equipment,
- collecting soil samples during drilling, and logging of visual, olfactory and tactile soil characteristics, and evidence of petroleum hydrocarbon or other chemical impacts, if any;
- measuring combustible soil vapour (CSV) and/or total organic vapour (TOV) concentrations in soil samples;
- submitting selected soil samples for laboratory analyses of contaminants of concern (COCs) based on the sampling and analysis plan and field observations;
- installing groundwater monitoring wells at two of the new borehole locations;
- monitoring vapour and groundwater conditions within the existing wells and the newly installed wells;
- developing the groundwater of the existing wells and the newly installed wells;
- monitoring groundwater levels within the wells, and collecting and submitting groundwater samples for laboratory analyses of COCs based on the sampling and analysis plan;
- surveying the elevation of each of the newly installed wells using a TOPCON HiPer V GNSS;
- evaluating laboratory analytical results with respect to the selected Site Condition Standards; and,
- refining the existing Conceptual Site Model (developed during the Terrapex Phase One ESA work program) in light of the information collected during the Phase Two ESA activities.

The sampling and analysis plan is attached in Appendix II. The sampling procedures are documented in detail in Section 5.0.

4.2 MEDIA INVESTIGATED

Based on the findings of the previous Phase One ESA work program (Terrapex, 2022), the Phase Two ESA work program documented herein included investigation of the environmental quality of both native soil and groundwater at the Site, as well as fill material of unknown quality in soil stockpiles.

The environmental quality of sediment was not investigated as sediment is not present at the Site.

Soil and groundwater were investigated by drilling boreholes and installing monitoring wells, as described above, and in Section 5.0.

4.3 PHASE ONE CONCEPTUAL SITE MODEL

A summary of the CSM is provided below.

Site Features: The Site is an irregular-shaped parcel of vacant land located south of the southwest corner of the intersection of Zents Drive and Brock Road in Pickering, Ontario. The property comprises an area of approximately 29,291 m² (2.93 hectares). The Site is covered by vegetation and a wooded area.

Site History: The property has been used for agricultural uses since at least 1946, and was potentially used as an orchard or tree farm from at least 1946, until some time prior to 1964. The Site was redeveloped into residential properties some time between 1954 and 1964, and was possibly utilized as a private salvage yard from at least 2002 until approximately 2018. The Site is currently vacant.

Uses of Adjacent Properties: The property is bordered by residential properties to the south and east beyond Brock Road, Zents Drive to the north and vacant properties beyond, and wooded area to the west.

Existing Buildings and Structures: Two vacant residential dwellings were observed on the eastern portion of the Site.

Water Bodies: The Site does not include and is not adjacent to or within 30 m of a water body, as defined in O. Reg. 153/04. The nearest water body to the Site is a tributary of Duffins Creek, located approximately 150 m southeast of the Site, which ultimately discharges into Lake Ontario.

Areas of Natural Significance: The Site does not include, and is not within, adjacent to, or within 30 m of an area of natural significance, as defined in O.Reg 153/04.

Drinking Water Wells: Three water supply wells were observed on-site; it is presumed that the residences were previously supplied water via these wells. The locations of the water supply wells are shown on Figure 2.

A total of 74 water wells records were identified within the Phase One Study Area, including 15 water wells, 31 records relating to test holes/observation wells/ monitoring and test holes, 22 records relating to abandoned well records, and six unknown records, which are presumed to be for monitoring/test holes based on the contractor ID numbers, which are related to environmental and geotechnical drilling providers.

The ERIS report identified a total of four well records for monitoring wells on-site, which are related to the previous work completed on-site by Terrapex. The ERIS report also identified 91 off-site water wells within 300 m of the property. Sixteen wells were identified as water supply wells installed between 1956 and 2005. Eighteen wells were listed as abandoned or unknown between 2012 and 2017. The remainder of the well records listed were for monitoring and/or observation purposes. Static water levels were observed to range between 0.6 m and 6.7 m bg.

Geology/Hydrogeology: The Site is located in a physiographic region known as the Iroquois Plain. The Iroquois Plain cut in previously deposited clay and till, is partly floored with sand deposits. The sands and gravels were deposited by Lake Iroquois, but the clay is pre-Iroquoian age. Bedrock geology consists of upper Ordovician shale, limestone, dolostone, and siltstone of the Georgian Bay Formation.

Potentially Contaminating Activities: Based on the review, evaluation, and interpretation of the information obtained from the records review, interviews, and site reconnaissance, four PCAs were identified on-site.

- 28 – Gasoline and Associated Products Storage in Fixed Tanks;
- 30 – Impartation of Fill Material of Unknown Quality;
- 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications; and,
- 49 – Salvage Yard, including automobile wrecking.

The potential historical presence of an orchard or tree farm on the Site could have resulted in the use of pesticides. However, a review of the Terrapex's geotechnical report indicated the concentration of organochlorine pesticides (OCPs), metals, and hydride-forming metals, specifically lead and arsenic in the soil samples recently collected were below the Table 1 SCS. Therefore, an area of potential environmental concern (APEC) related to the PCA related to the potential use of pesticides on-site was not identified.

Ten PCAs were identified within the Phase One Study Area; Three PCAs are resulted in the presence of an APEC at the Site.

Areas of Potential Environmental Concern: Three APECs have resulted from the presence of PCAs at the Site: Gasoline and associated products storage in fixed tanks, impartation of fill material of unknown quality, and salvage yard, including automobile wrecking.

Contaminants of Potential Concern: Three APECs were identified at the Site with the following identified Contaminants of Potential Concern (COPCs):

- BTEX;
- PHCs;
- PAHs;
- Metals;
- Hydride-forming metals (arsenic, antimony and selenium); and,
- ORPs (boron – hot water soluble, hexavalent chromium, cyanide, mercury, pH (soil only), electrical conductivity (EC) (in soil only), sodium adsorption ratio (SAR) (in soil only), sodium (in groundwater only), and chloride (in groundwater only))

Migration Pathways: In general, potential migration pathways for subsurface contaminants at the Site would consist of buried services or remnants of former buried services. However, no such pathways have been identified during the study.

Uncertainty: The main uncertainty associated with the CSM developed for the Site relates to the limited information regarding the former use of the Site as well as the limited information regarding activities on neighbouring properties. This lack of information is mitigated by the inherent nature of residential land uses, which are not typically associated with significant PCAs.

Notwithstanding the above, it should be noted that Phase One ESAs have inherent limitations, and therefore findings cannot be considered definitive (i.e., the findings of a Phase One ESA are inherently associated with some uncertainty).

4.4 DEVIATIONS FROM THE SAMPLING AND ANALYSIS PLAN

The following deviations from the sampling plan occurred:

- Monitoring wells MW203 was re-sampled for PAHs to confirm initial groundwater results.
- Monitoring wells MW206 was re-sampled for PHCs to confirm initial groundwater results.

4.5 IMPEDIMENTS

Access to and throughout the Site was not impeded at any time during the Phase Two ESA work program.

The presence of trees and similar vegetation, as well as soil piles and debris around the unoccupied dwellings on the Site required minor adjustments in the field to the planned location of some boreholes.

These impediments are not considered to have significantly affected the data or the conclusions of the ESA.

5.0 INVESTIGATION METHOD

5.1 GENERAL

Prior to drilling or test pitting at the Site, local utility companies were contacted in order to obtain stake-outs and clearance with respect to buried services. A private locating company was also retained to provide clearance with respect to buried services in the work areas. All intrusive sampling locations were greater than the required distance from all located underground utilities and were therefore given clearance. The approximate locations of the on-Site underground utility locations are provided in Figure 2.

For work that Terrapex supervised, a Site-specific health and safety plan (HASP) and a Daily Safe Work Permit were also prepared by Terrapex prior to commencing all field work. All team members, including sub-contractors, read and signed the HASP before working at the Site.

All methods used during the investigation were completed as per Terrapex's associated standard operating procedures (SOPs).

5.2 DRILLING

Borehole drilling and monitoring well installation services required for the Phase Two ESA were provided by Pontil Drilling Inc. of Mount Albert, Ontario, a MECP-licensed well drilling contractor, under contract with Terrapex.

Borehole advancements and monitoring well installations required for the Phase Two ESA work program were completed using a M55-21 track mounted drill rig equipped with standard hollow stem auger. Boreholes were advanced to a maximum depth of 15.4 m bg as part of the geotechnical investigation, and monitoring wells installed for environmental purposes were advanced to at least 1.0 m below the apparent water table

Between April 30 and May 7, 2018, 10 boreholes (MW1D, BH2, MW3D, MW4, MW5, BH6, BH7, MW8D, BH9, and MW10) were advanced to depths ranging between 8.3 m and 15.4 m bg. Six borehole locations (MW1S/D, MW3S/D, MW4, MW5, MW8S/D, and MW10) were equipped with monitoring wells, with three of the locations being installed with multi-depth well clusters comprising shallow and deep monitoring wells (MW1S/MW1D, MW3S/MW3D, and MW8S/MW8D).

On October 5, 2021 six boreholes (BH201, BH202, MW203, BH204, BH205, MW206) were advanced to depths ranging between 6.2 m and 6.7 m bg. Monitoring wells were installed in two of the boreholes (MW203 and MW206).

Boreholes advanced and monitoring wells installed for the Phase Two ESA were completed under the full-time supervision of Terrapex staff.

5.3 SOIL

5.3.1 SOIL SAMPLING

Soil samples were generally collected on a continuous basis at each borehole location using a 0.6 m long, 50 mm diameter split-spoon sampler. Soil samples collected from 15 locations (HA101 and HA102, HA201 to HA208, and HA301 to HA305) were sampled using a 50 mm diameter hand auger, and soil samples were collected directly from the auger at regular intervals. The borehole and hand auger locations are shown on Figures 2 and 5B.

Terrapex's Phase One ESA site reconnaissance identified several piles of poor-quality fill material and inert construction debris on-site, primarily near the residence driveways. The approximate locations of the fill piles comprising soil under Section 1 of O.Reg. 153/04 (FP1 through FP8) are shown on Figures 2 and 5B.

Following the removal of the poor-quality fill material from site, confirmatory soil samples were collected from the native soil at each former fill pile location directly following its removal using the excavator bucket.

To mitigate cross-contamination, clean drilling augers were used at each borehole location. The hand auger was washed using Alconox detergent and rinsed with potable water prior to each sampling event. Fresh nitrile gloves were donned for the handling of each sample.

Each recovered sample was divided into two portions, with one portion placed in a clear sampling bag for field screening/logging, and the second portion placed in an unpreserved laboratory supplied sampling container, brought to the laboratory under signed chain of custody. Soil descriptions were recorded based on the Unified Soil Classification System (USCS).

Samples for analyses were placed in a cooler with ice packs and delivered under signed chain of custody to the project laboratory for analysis.

Boreholes, hand auger locations and monitoring well locations are shown on Figures 2 and 5B. Confirmatory soil samples and are shown on Figures 10A through 10C. Graphic borehole logs illustrating the stratigraphy encountered, chemical analysis samples and measured soil vapour concentrations are included in Appendix III.

5.3.2 FIELD SCREENING MEASUREMENTS

Terrapex measured soil vapour concentrations in the headspace of each soil sample bag with sufficient recovery, using an RKI Eagle™ 2 Hydrocarbon Surveyor (Eagle), equipped with a dual sensor (catalytic combustion and photoionization), calibrated to n-hexane and isobutylene, and operated in methane elimination mode. The Eagle gas detector can measure total combustible organic compounds to a nominal detection level of 5 parts per million by volume (ppm) and total organic compounds to a nominal detection level of 1 ppm, with an accuracy of approximately ±5%.

The gas detector was calibrated according to the manufacturer's instructions before the field investigation.

“Worst-case” soil samples were selected on the basis of vapour screening, visual and olfactory evidence of contamination, and sample location in relation to potential point sources of impact.

5.4 GROUNDWATER

5.4.1 MONITORING WELL INSTALLATION

Monitoring wells for this work program were installed by Pontil Drilling Inc. The boreholes were advanced using a M55-21 track-mounted drill rig equipped with standard hollow-stem augers for split spoon sampling.

Monitoring wells were installed in eight of the boreholes (MW1S/D, MW3S/D, MW4, MW5, MW8S/D, MW10, MW203, and MW206), with three of the locations being installed with multi-depth well clusters comprising shallow and deep monitoring wells (MW1S/MW1D, MW3S/MW3D, and MW8S/MW8D). Monitoring wells were constructed using new 50 mm inside-diameter schedule 40 PVC well pipe and # 10 slot screen. The annulus of each well was backfilled with washed silica sand to a depth of approximately 0.3 m above the screened interval. A hydrated bentonite seal was placed above the sand pack to prevent infiltration of surface water into the monitoring well. A steel monument casing, cemented in place, was installed at each of the well locations.

To mitigate cross-contamination, new materials were used for the installation of each monitoring well. Fresh nitrile gloves were donned for the handling of the well material at each well location.

Well installation details are provided on the borehole logs in Appendix III.

5.4.2 MONITORING WELL DEVELOPMENT METHOD

The monitoring wells to be used as part of the Phase Two ESA work program were developed on October 13 and 27, 2021 to remove drilling debris that may have been

introduced during well installation and to minimize any potential sampling and analytical bias that may result from excessive particulate capture within groundwater samples recovered from these wells.

Prior to development, the wells were monitored for combustible vapours in the well headspace. Depth to water and depth to the bottom of the well were also measured prior to well development. The volume of water in the well and its annulus were calculated based on the depth measurements, diameter of the well standpipe and annulus, and assumed annulus porosity of 30%.

The wells were developed using a surge block and a dedicated inertial sampler comprising low density polyethylene (LDPE) tubing and a LDPE foot valve. Each well was surged and purged until water free of visible particulate was yielded or until ten well volumes of water was removed, whichever came first. The use of this technique resulted in the removal of between 4 L and 40 L from each of the monitoring wells.

5.4.3 FIELD MEASUREMENTS OF WATER QUALITY PARAMETERS

Water quality parameters; temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP), were measured during sampling of groundwater using a peristaltic pump and a YSI 556 MPS water quality meter. Prior to sampling, Terrapex recorded the water quality parameters over three minute intervals. When the parameters stabilized to within requirements as outlined in Terrapex's SOPs, the well was deemed appropriate for sampling.

5.4.4 GROUNDWATER SAMPLING

Groundwater samples were collected from the monitoring wells on October 18 and 27, 2021, November 25, 2021, and December 14, 2021. Prior to sampling, monitoring activities included the measurement of combustible and/or organic vapours within the headspace of the well immediately upon removal of the well standpipe cap, using a RKI Eagle portable gas detector calibrated to n-hexane and operated in "methane elimination" mode. The depth to water in the well was measured using a Solinst interface probe. The presence, and apparent thickness (if applicable), of any light non-aqueous phase liquids (LNAPL) or dense non-aqueous phase liquids (DNAPL) in the well was also assessed using the interface probe.

To mitigate cross-contamination, the interface probe was washed with a liquid solution of Alconox detergent and rinsed with fresh water between each monitoring well. A fresh pair of latex or nitrile gloves was donned at each well location.

Sampling was conducted using "low-flow" methodology with a peristaltic pump (Spectra) as per Terrapex's SOP.

Groundwater samples were collected directly into pre-cleaned, laboratory-supplied bottles, placed in a cooler with ice, and shipped within four days of collection under chain of custody to the project laboratory for analysis.

5.5 SEDIMENT

5.6.1 SEDIMENT SAMPLING

The sampling of sediments was not completed as part of this work program as sediment is not present at the Site.

5.6 ANALYTICAL TESTING

Laboratory analytical services for this work program were provided by Paracel Laboratories Ltd. (Paracel) in Hamilton and Mississauga, Ontario and AGAT Laboratories (AGAT) in Mississauga. Paracel and AGAT are accredited by The Canadian Association for Laboratory Accreditation (CALA) to International Standard ISO/IEC 17025:2017, *General Requirement for the Competence of Testing and Calibration Laboratories* for the parameters included in the analytical program.

Soil samples were analyzed as follows:

- Twenty-three (23) soil samples were submitted for laboratory analyses of various metal and inorganic parameters.
- Nineteen (19) soil samples were submitted for laboratory analyses of PAH parameters;
- Thirteen (13) soil samples were submitted for laboratory analyses of BTEXPHC parameters;
- Ten (10) soil samples were submitted for laboratory analyses of VOC (excluding BTEX) parameters;
- Five (5) duplicate soil samples were submitted for analysis of various VOCs, PHC F1-F4, PAHs and metallic and inorganic parameters for QA/QC purposes; and,
- Two (2) trip blank soil sample was submitted for analysis of VOCs and PHC F1 for QA/QC purposes.

Groundwater samples were analyzed as follows:

- Four (4) groundwater samples were submitted for laboratory analyses of various metal and inorganic parameters.
- Five (5) groundwater samples were submitted for laboratory analyses of PAH parameters;
- Seven (7) groundwater samples were submitted for laboratory analyses of PHC parameters;

- Three (3) groundwater samples were submitted for laboratory analyses of VOC parameters;
- Five (5) duplicate soil samples were submitted for analysis of VOCs, PHC F1-F4, PAHs and metallic and inorganic parameters for QA/QC purposes; and,
- Eight (8) duplicate groundwater samples were submitted for laboratory analyses of various metal and inorganic, PAH, PHC and VPC parameters for QA/QC purposes; and,
- One (1) trip spike sample and two trip blank samples were submitted for laboratory analyses of VOCs and/or PHC F1 for QA/QC purposes.

The specific sample locations and parameters analyzed at each location are shown on the sampling and analysis plan in Appendix II and in Tables 2A through 3D.

5.7 RESIDUE MANAGEMENT PROCEDURES

All soil cuttings and groundwater produced during borehole drilling, well development and well purging were contained in 205 L drums at the Site for future disposal.

5.8 ELEVATION SURVEYING

The elevation of the ground surface at each borehole and top of pipe at each monitoring well were surveyed by Terrapex on October 13 and 29, 2022 using a TOPCON HiPer V GNSS Receiver in metres above mean sea level (m amsl).

5.9 QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

To mitigate cross-contamination during drilling, clean drilling augers were used for each borehole and new PVC liners inside the direct-push sampler were used for each soil sample. The hand auger was washed using Alconox detergent and rinsed with distilled water prior to each sampling event. Fresh nitrile gloves were donned for the handling of each sample.

During groundwater sampling, dedicated sampling tubing was used at each monitoring well location. To mitigate cross-contamination, the interface probe was washed with a liquid solution of Alconox detergent and rinsed with fresh municipal water between each monitoring well. A fresh pair of nitrile gloves was donned at each well location.

Pre-cleaned soil and groundwater sample containers for the Site's specific parameters were provided by Paracel and used at each borehole and monitoring well location for the collection of soil and groundwater samples.

The sample containers and preservation methods for soil and groundwater samples collected for this investigation are provided in the Sampling and Analysis Plan in Appendix II.

Samples for analyses were placed in an enclosed cooler with loose ice and shipped under signed chain of custody and custody seals to Paracel for analysis. Soil samples for analysis of volatile organic parameters were received at the laboratory, and immediately extracted.

Paracel's Quality Assurance/Quality Control (QA/QC) program consisted of the analysis of laboratory replicates, matrix spikes, matrix blanks, method blanks and surrogate percent recoveries, as appropriate for the particular analysis protocol.

The following "blind" field duplicates were submitted to the laboratory for chemical analysis for QA/QC purposes during the Phase Two ESA work program:

- one duplicate soil sample of BH202-6 (identified as BH2001) was submitted for analysis of PAHS, PHCs and VOCs;
- one duplicate of soil sample MW203-2 (identified as BH2006) was submitted for analysis of metals and inorganics;
- one duplicate of soil sample MW203-7 (identified as MW2002) was submitted for analysis of PAHS, PHCs and VOCs;
- one duplicate of soil sample HA302-D (identified as HA333) was submitted for analysis of PAHS, PHCs and F1;
- one duplicate of soil sample GS408-1 (identified as GS4000) was submitted for analysis of metals and PAHs;
- one duplicate groundwater sample of MW3D (identified as MW93D) was submitted for analyses of metals and inorganics, PHCs and VOCs;
- one duplicate groundwater sample of MW203 (identified as MW93D) was submitted for analyses of metals, PHCs and VOCs;
- two duplicate groundwater samples of MW203 (identified as MW1999 and MW2000) were submitted for analyses of PAHs;
- one duplicate groundwater sample of MW206 (identified as MW9206) was submitted for analyses of metals and inorganics and PAHs; and,
- two duplicate groundwater samples of MW206 (identified as MW9206 and MW1888) were submitted for analyses of BTEX and PHCs.

Two trip blank samples for soil (identified as "Field Blank" and Trip Blank"), two trip blank samples for groundwater (identified as "Trip Blank"), and one trip spike sample for groundwater (identified as "Trip Spike") were also submitted for analysis as QA/QC measures. The trip blank and trip spike samples were prepared by the laboratory, and the sampling container remained within the bottle order package from the time of the delivery, sampling and submission to the laboratory.

With the exception of the trip blank and trip spike samples that were prepared by Paracel itself, the laboratory was not informed of the nature or number of field QA/QC samples.

6.0 REVIEW AND EVALUATION

6.1 GEOLOGY

The Site is located in a physiographic region known as the Iroquois Plain, which is cut in previously deposited clay and till and partly floored with sand deposits. The sands and gravels were deposited by Lake Iroquois, but the clay is pre-Iroquoian age. Bedrock geology consists of upper Ordovician shale, limestone, dolostone, and siltstone of the Georgian Bay Formation.

The soil stratigraphy encountered at the Site was a surface cover of up to 250 mm topsoil, underlain by variable hard sandy clayey silt (till), very dense sand and silt (till), dense to very dense sandy silt to silty sand, and very dense gravelly sand to sandy gravel soils at various depths. Various fill material, including sand, gravel with varying silt and clay content, was encountered in the fill piles. Deleterious construction debris was also observed in some of the fill piles.

Saturated conditions (i.e., the apparent water table) were observed at depths between 1.8 m to 5.8 m bg in the silty sand/sandy silt stratum.

A copy of the borehole logs is included in Appendix III.

6.2 GROUNDWATER ELEVATIONS AND FLOW DIRECTION

The 'deep' monitoring wells were installed at depths between 7.4 m bg to 11.0 m bg and 'shallow' monitoring wells were installed at depths between 3.1 m and 6.0 m bg. Installation details of the monitoring wells are shown on Table 1A and on the borehole logs in Appendix III.

Depths to groundwater in the monitoring wells measured on October 27, 2021 were between 0.70 m bg at monitoring well location MW1S to 6.57 m bg at monitoring well location MW5. Monitoring data is shown on Table 1B.

No evidence of either light, non-aqueous phase liquid (LNAPL) or dense, non-aqueous phase liquid (DNAPL) was observed during monitoring, purging, or sampling of the monitoring wells during this work program.

Groundwater elevations were calculated using the surveyed elevation of the top of the well pipe and the measured depth to water on October 27, 2021. The minimum groundwater elevation on this date was 131.33 m (MW1S) and the maximum groundwater elevation was 125.02 m (MW5).

Groundwater contours were electronically generated using Surfer™ Surface Mapping System with Point Kriging geostatistical gridding method to interpolate the data points. Interpreted groundwater contours based on these calculations are shown on Figure 6. The general flow direction of shallow groundwater at the Site was determined to be to the southeast.

As the water table is fairly shallow, the direction of groundwater flow may be somewhat influenced by seasonal factors. It may also be influenced by deeper utilities (e.g., water and sewage lines), but the contouring results do not suggest that this is occurring.

6.3 GROUNDWATER HYDRAULIC GRADIENTS

Hydraulic conductivity was calculated as part of Terrapex's concurrent Hydrogeologic Review. The estimated magnitude of the gradient in the northern part of the site is 0.06 m/m (southerly) towards the centre of the site. Measurements in wells of shallow groundwater in the southern part of the site indicate gradients ranging from 0.02 to 0.09 m/m (northerly) towards the centre of the site.

Monitoring well clusters indicated a downward vertical hydraulic gradient at MW1 and MW3 with magnitudes of 1.04 m/m and 0.15 m/m, respectively. These results indicate that the site functions as a groundwater recharge area. The steeper gradient at MW1 reflects the relatively lower permeability soils.

The hydraulic conductivity was interpreted from single well response tests. The interpreted hydraulic conductivity values for MW1(D), MW3(D), and MW4 are: 9×10^{-9} , 3×10^{-7} , and 7×10^{-6} , respectively.

The hydraulic conductivity values interpreted from grain size analysis and the Hazen formula. The Hazen formula uses the d_{10} value, which is the particle radius with 10% finer by weight, to predict the hydraulic conductivity. The hydraulic conductivity range for tested samples ranged from 3×10^{-7} m/s to 3×10^{-4} m/s.

6.4 FINE-MEDIUM SOIL TEXTURE

Seven representative soil samples (MW1-S4, MW4-S5, MW5-S6, MW5-S7, BH9-S8, BH7-7, and MW8-9) were selected from boreholes for grain size analysis during Terrapex's geotechnical investigation in 2018. The results of the analyses confirmed that the soil at the Site is a coarse-textured material as defined by O. Reg. 153/04. Grain size analyses results are included in Appendix IV.

6.5 SOIL FIELD SCREENING

No visual (staining) or olfactory (odour) evidence of impacted soil was observed in the soil samples recovered from the borehole locations. CSV concentrations measured in all recovered soil samples were less than 10 ppm, and the TOV concentrations were 1 ppm or less.

6.6 SOIL QUALITY

Metal Parameters (Table 2A, Figures 8A, 8B and 10A): Analysis of 15 samples of soil (excluding two blind field duplicates) for metal parameters identified exceedances of nickel in soil samples HA102-1 and HA102-2. These samples were collected from one of the fill piles observed

on-site and subsequently removed. Therefore, based on the current site conditions, all remaining soil on-site meets the Table 2 SCS.

As shown in Table 2A and Figure 10A, concentrations of all soil parameters analyzed for the underlying soil remaining from beneath the removed fill piles were below the Table 2 SCS and samples that had concentrations exceeding the Table 2 SCSs were subsequently removed (as indicated by the grey shading in the tables).

Other Regulated Parameters (Table 2A, Figures 8C to 8H and 10B): Analysis of 23 samples of soil (excluding two blind field duplicates) for other regulated parameters identified an exceedance of boron (hot water soluble) in soil sample BH201-1. This sample was collected from one of the fill piles observed on-site and subsequently removed. Therefore, based on the current site conditions, all remaining soil on-site meets the Table 2 SCS.

As shown in Table 2A and Figure 10B, concentrations of all soil parameters analyzed for the underlying soil remaining from beneath the removed fill piles were below the Table 2 SCS and samples that had concentrations exceeding the Table 2 SCSs were subsequently removed (as indicated by the grey shading in the tables).

PAHs (Table 2B, Figures 8I and 10C): Analysis of 19 samples of soil (excluding three blind field duplicates) for PAH parameters identified exceedances of benzo(a)pyrene, dibenz(a,h)anthracene, fluoranthene, and indeno(1,2,3-cd)pyrene in soil samples HA102-1 and HA102-2. These samples were collected from one of the fill piles observed on-site and subsequently removed. Therefore, based on the current site conditions, all remaining soil on-site meets the Table 2 SCS.

As shown in Table 2B and Figure 10C, concentrations of all soil parameters analyzed for the underlying soil remaining from beneath the removed fill piles were below the Table 2 SCS and samples that had concentrations exceeding the Table 2 SCSs were subsequently removed (as indicated by the grey shading in the tables).

BTEX/PHCs (Table 2C, Figures 8J and 8K): Analysis of 13 samples of soil (excluding three blind field duplicates) for BTEX and PHC parameters did not identify any exceedances in soil.

VOCs (excluding BTEX) (Table 2D, Figure 8L): Analysis of 10 samples of soil (excluding two blind field duplicates) for VOC parameters did not identify any exceedances in soil.

Laboratory Certificates of Approval can be found in Appendix V.

6.7 GROUNDWATER QUALITY

Metal and Other Inorganic Parameters (Table 3A, Figures 9A to 9C): No concentrations in exceedance of the Table 2 SCS were identified in groundwater.

PAHs (Table 3B, Figure 9D): No concentrations in exceedance of the Table 2 SCS were identified in groundwater with an exception of fluoranthene was initially identified in groundwater in monitoring well MW203, however, as the sample collected was observed to contain sediment, Terrapex re-sampled monitoring well MW203 on two separate occasions and re-sampling results did not identify any concentrations in exceedance of the Table 2 SCS. Therefore, it is the opinion of the QP_{ESA} that the initial result for MW203 was biased high due to sediment in the sample, and has been discounted (as indicated by the grey shading in the table).

BTEX/PHCs (Table 3C, Figures 9E and 9F): No concentrations in exceedance of the Table 2 SCS were identified in groundwater with the exception of an exceedance of PHC F2 was initially identified in groundwater in monitoring well MW206, however, as the sample collected was observed to contain sediment, Terrapex re-sampled monitoring well MW206 on two separate occasions and re-sampling results did not identify any concentrations in exceedance of the Table 2 SCS. Therefore, it is the opinion of the QP_{ESA} that the initial result for MW206 was biased high due to sediment in the sample, and has been discounted (as indicated by the grey shading in the table).

VOCs (Table 3D, Figure 9G): No concentrations in exceedance of the Table 2 SCS were identified in groundwater.

6.8 SEDIMENT QUALITY

The environmental quality of sediment was not investigated as sediment is not present at the Site.

6.9 QUALITY ASSURANCE AND QUALITY CONTROL RESULTS

QA/QC Control Limits: A review of the quality assurance reports attached to the laboratory certificates of analyses indicate that the laboratory QA/QC samples were generally within the quality control limits.

Method Spike Recoveries: In Certificate of Analysis 2149004 the method spike recovery for benzo(g,h,i)perylene, and in Certificate of Analysis 2143465 the method spike recovery for benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene, were above the recommended recovery limit, suggesting a potential (“high”) bias associated with field program and/or laboratory analytical procedures for benzo(g,h,i)perylene and cyanide, free. However, as all PAH parameters above the Table 2 SCS have been removed from the Site, the potential for “high” bias of reported benzo(g,h,i)perylene and cyanide, free concentrations is not considered to have significantly affected the interpretation of the reported analytical results.

In Certificate on Analysis 2143465 the method spike recovery for cyanide, free suggesting a potential negative (“low”) bias associated with field program and/or laboratory analytical procedures for cyanide, free. However, since cyanide, free has not been identified as a

contaminant of concern, the potential for "low" bias of reported cyanide, free concentrations is not considered to have significantly affected the interpretation of the reported analytical results.

In Certificate of Analysis 2199003, the method spike recovery for boron and sodium in groundwater were outside of laboratory QC acceptance limits due to elevated analyte concentration. In Certificate of Analysis 2144619, the method spike recovery for dichlorodifluoromethane was outside the accepted range due to noted non-homogeneity of the QC sample matrix. Batch data was accepted based on other QC. Additionally, surrogate recovery for dibromofluoromethane was outside control limits, with data accepted based on valid recovery of the remaining surrogate. In Certificate of Analysis 2143092, the method spike recovery for sodium was outside the accepted range due to elevated analyte concentration.

Detection Limits: No sample dilution was required by the laboratory, and reporting detection limits were not adjusted.

Trip Blank Samples: Laboratory results for the trip blank samples are presented in the soil analytical results tables (Tables 2C and 2D) and groundwater analytical results tables (Tables 3C and 3D). Detectable concentrations of the tested parameters were not reported in the travel blank samples.

Trip Spike Samples: Trip spike recoveries reported by the laboratory are summarized in the groundwater analytical results tables (Tables 3C and 3D). The recoveries of all analysed parameters within the travel spike sample were within acceptance limits.

Field Duplicate Samples: Field duplicate sample results are presented in the soil and groundwater analytical results tables (Tables 2A through 3D). Relative percent difference (RPD) for field duplicate sample results is calculated as follows:

$$RPD = \left| \frac{result_1 - result_2}{\frac{1}{2} \times (result_1 + result_2)} \right| \times 100\%$$

RPD is not calculated where reported concentrations are less than five times the method detection limit. Increased RPD values may be encountered whenever duplicate analyses are completed on samples representing heterogeneous fill materials, however significant concerns regarding the validity of analytical results would generally not be suspected if calculated RPD do not exceed the specified alert criteria by more than a factor of 2. (i.e., an RPD of >60%).

Quantitative correlation was not calculable for the PAH, PHC and VOC analytical results of the field duplicate soil samples and the metal and inorganic, PAH, PHC, and VOC analytical results of the field duplicate groundwater samples and their sample pairs, as the reported concentrations of all tested parameters for either one or both samples were less than five times the reportable detection limits.

The acceptable correlation between original and field duplicate samples is typically 30% for inorganics. Acceptable correlation (including, where applicable, calculated RPDs less than the acceptance criteria) was observed between the duplicate sample and its corresponding sampling pair for each of the tested metal and inorganic parameters in soil, with the exception of barium, cobalt, lead, electrical conductivity and sodium adsorption ratio. This is attributed to the heterogeneity of the fill material that the samples were collected from.

A qualitative evaluation of the analytical results indicates acceptable correlation between the sampling pairs in soil and groundwater.

Sample Holding Times: The hold times for soil samples BH204-1 and BH205-1 exceeded hold times for VOC, BTEX and PHC parameters. However, additional soil samples HA101 and HA102 was collected from adjacent to BH204-1 and BH205-1, respectively, and analysed for VOC, BTEX and PHC parameters to confirm the initial analytical results. Due to receiving a laboratory-prepared trip spike near the end of its hold time, the trip spike submitted on Certificate of Analysis 2144619 exceeded the hold time for VOC parameters. All other hold times were met.

6.10 PHASE TWO CONCEPTUAL SITE MODEL

A preliminary conceptual site model was developed as part of the Phase One ESA, which is discussed in Section 4.3. Following the completion of the Phase Two ESA field program, the CSM has been updated to present the current Site characteristics and identify actual or potential sources of contamination, pathways, release mechanisms, receptors, and exposure routes. Additional inputs to the CSM include:

- stratigraphy observed during this Phase Two ESA work program;
- results of chemical testing for the current soil and groundwater conditions; and,
- groundwater levels and interpreted groundwater flow direction.

A narrative summary of the phase two CSM is provided below. Figures 1 through 10C illustrating the phase two CSM are attached, and referenced in the appropriate sections below.

OVERVIEW

Site Description (Figures 1 and 2): The Site is irregular in shape, comprises an area of approximately 3950 m² (0.40 hectares), and is located on the southwest corner of the intersection of Zents Drive and Brock Road in Pickering, Ontario. The Site has been vacant since 2002, after being used for agricultural purposes since 1946. Two unoccupied residential buildings are in the southeast portion of the Site, and are surrounded by overgrown vegetation, building debris, and soil stockpiles. The remainder of the Phase Two Property covered by vegetation and wooded areas. The Site is bordered by residential properties to the south and east beyond Brock Road, Zents Drive to the north and a wooded area to the west.

The Site slopes generally to the southeast towards a tributary of Duffins Creek, which flows south towards Lake Ontario. The elevation of the Site is approximately 130 m above mean sea level (amsl).

Past and Present Uses (Figures 2 and 3): The Site was first developed for agricultural purposes and is presently vacant residential. However, historical aerial photographs appear to indicate that undocumented industrial activities (possible salvage yard) occurred at the Site in the early 2000s. Therefore, the current land use of the Site is conservatively considered to be industrial per the definitions of the Ontario *Records of Site Condition – Part XV.1 of the Act* regulation (O. Reg. 153/04).

The Site will be developed for residential use, and the proposed future use of the Site is expected to be “residential property use” per Section 14.5 and 14.8 of O. Reg. 153/04.

Adjacent Land Uses (Figure 3): The property is bordered by residential properties to the south and east beyond Brock Road, Zents Drive to the north and vacant properties beyond, and wooded area to the west.

Assessment Criteria: The generic MECP SCS determined to be applicable to the intended use of the Site are those for residential/parkland/institutional property use, coarse-textured soils, in a potable groundwater situation (MECP Table 2 SCS). The Site is not environmentally sensitive per the definition of O. Reg. 153/04.

PCAs AND APECs

Areas Where Potential Contaminating Activity (PCA) Has Occurred (Figure 4): Ten (10) PCAs were identified within the Phase One Study Area. Four of these PCAs were identified on the Phase Two Property and were associated with:

- 28 – Gasoline and Associated Products Storage in Fixed Tanks;
- 30 – Impartation of Fill Material of Unknown Quality;
- 40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications; and,
- 49 – Salvage Yard, including automobile wrecking.

Areas of Potential Environmental Concern (APECs) (Figures 5A and 5B): Three APECs associated with the PCAs were identified on the Phase Two Property:

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

Area of Potential Environmental Concern ¹	Location Of Area of Potential Environmental Concern On Phase One Property	Potentially Contaminating Activity ²	Location of PCA (On-Site Or Off-Site)	Contaminants Of Potential Concern ³	Media Potentially Impacted (Ground water, Soil, and/or Sediment)
APEC 1	The Site (2660 and 2670 Brock Road)	28 – Gasoline and Associated Products Storage in Fixed Tanks	On-site	- BTEX - PHCs - PAHs	- Soil - Groundwater
APEC 2	The Site (2660, 2670, 2680 Brock Road)	30 – Impartation of Fill Material of Unknown Quality	On-site	- BTEX - PHCs - PAHs - Metals - Hydride-forming metals - ORPs	- Soil
APEC 3	The Site (2670 and 2680 Brock Road)	49 – Salvage Yard, including automobile wrecking	On-site	- BTEX - PHCs - PAHs - Metals - Hydride-forming metals - ORPs	- Soil - Groundwater

BTEX: benzene, toluene, ethylbenzene, xylenes

PHCs: petroleum hydrocarbons (F1-F4)

PAHs: polycyclic aromatic hydrocarbons

Hydride-forming metals: arsenic, antimony and selenium

ORPs: Boron – hot water soluble, hexavalent chromium, cyanide, mercury, pH (in soil only), electrical conductivity (EC) (in soil only), sodium adsorption ratio (SAR) (in soil only), sodium (in groundwater only), and chloride (in groundwater only)

Subsurface Structures and Utilities That May Affect Contaminant Distribution and Transport (Figure 2): During the Phase Two ESA work program, local utility companies were contacted in order to obtain stake outs and clearance with respect to buried services under the Phase Two Property. A private locating company (Landshark Locates) was also retained to provide clearance with respect to buried services in the drill areas. Underground utilities at the Phase Two Property were not identified. All known utilities are located outside the Site boundaries.

In general, potential preferential migration pathways for sub-surface contaminants at a site comprise buried utilities, naturally occurring sand seams, or other subsurface areas of increased permeability. However, the evidence does not suggest this is happening on the Phase Two Property.

PHYSICAL SETTING OF THE PHASE TWO ESA PROPERTY

Stratigraphy: Based on findings from the drilling investigation, which included 16 boreholes (MW1, BH2, MW3, MW4, MW5, BH6, BH7, MW8, BH9, MW10, BH201, BH202, BH203, BH204, BH205, and MW206) to depths ranging between 1.5 m and 4.9 m bg, the stratigraphy on the Phase Two Property consists of A fill layer is present at most drilled locations on the eastern portion of the Site, with a thickness range from 0.3 m to 1.5 m. A topsoil layer with thickness of less than 0.6 m is present at most areas throughout the Site.

Below the topsoil and fill across most of the site, soils are predominantly (clayey) sandy silt till. Layers of silty sand to sandy silt were encountered between the till soil, with no particular sequence pattern throughout the locations.

Layers of gravelly sand to sandy gravel occur at depths below 8.5 m bg to 12 m bg at several boreholes locations. These granular layers, ranging in thickness from 1 m to 3 m, may be isolated lenses or may be hydraulically interconnected.

Past approximately 12 mbg, both silty sand layers and (clayey) silt till layers are observed again to the maximum depth drilled of 15.4 m bg at borehole location MW8.

Saturated conditions (i.e., the apparent water table) were observed at depths between 1.8 m to 5.8 m bg in the silty sand/sandy silt stratum. Bedrock may have been encountered during the drilling program at 13.8 m bg at borehole location BH6 and at 15.4 m bg at borehole location MW8.

Refer to Figures 2 and 5B for the borehole locations, Figures 7B and 7C for the cross sections showing the soil stratigraphy of the Phase Two Property, and borehole logs in Appendix III for soil stratigraphy encountered in the boreholes.

Hydrogeological Characteristics: Groundwater contours were electronically generated using Surfer™ Surface Mapping System with Point Kriging geostatistical gridding method to interpolate the data points. Interpreted groundwater contours based on these calculations are shown on Figure 6. The general flow direction of shallow groundwater at the Site was determined to be to the southeast.

As the water table is fairly shallow, the direction of groundwater flow may be somewhat influenced by seasonal factors. It may also be influenced by deeper utilities (e.g., water and sewage lines), but the contouring results do not suggest that this is occurring.

Hydraulic conductivity was calculated as part of Terrapex's concurrent Hydrogeologic Review. The estimated magnitude of the gradient in the northern part of the site is 0.06 m/m (southerly) towards the centre of the site. Measurements in wells of shallow groundwater in the southern part of the site indicate gradients ranging from 0.02 to 0.09 m/m (northerly) towards the centre of the site.

Monitoring well clusters indicated a downward vertical hydraulic gradient at MW1 and MW3 with magnitudes of 1.04 m/m and 0.15 m/m, respectively. These results indicate that the site functions as a groundwater recharge area. The steeper gradient at MW1 reflects the relatively lower permeability soils.

The hydraulic conductivity was interpreted from single well response tests. The interpreted hydraulic conductivity values for MW1(D), MW3(D), and MW4 are: 9×10^{-9} , 3×10^{-7} , and 7×10^{-6} , respectively.

The hydraulic conductivity values interpreted from grain size analysis and the Hazen formula. The Hazen formula uses the d_{10} value, which is the particle radius with 10% finer by weight, to predict the hydraulic conductivity. The hydraulic conductivity range for tested samples ranged from 3×10^{-7} m/s to 3×10^{-4} m/s.

Depth to Bedrock: Bedrock is assumed to have been encountered during the drilling program at 13.8 m bg at borehole location BH6 and at 15.4 m bg at borehole location MW8.

Depth to Water Table: Depths to groundwater in the monitoring wells measured on October 27, 2021 were between 0.70 m bg at monitoring well location MW1S to 6.57 m bg at monitoring well location MW5. Monitoring data is shown on Table 1B.

No evidence of either light, non-aqueous phase liquid (LNAPL) or dense, non-aqueous phase liquid (DNAPL) was observed during monitoring, purging, or sampling of the monitoring wells during this work program.

Groundwater elevations were calculated using the surveyed elevation of the top of the well pipe and the measured depth to water on October 27, 2021. The minimum groundwater elevation on this date was 131.33 m (MW1S) and the maximum groundwater elevation was 125.02 m (MW5).

Refer to Figures 2, 5B and 6 for the monitoring well locations, Figures 7B and 7C for the cross sections showing the water table of the Phase Two Property, and borehole logs in Appendix III for water table encountered in the boreholes.

Applicability of Section 41 or 43.1 of O. Reg. 153/04: O. Reg. 153/04 describes conditions, which when present, can constitute an “environmentally sensitive site”. They include the presence of areas of natural significance (such as wetlands, provincial parks, nature reserves and valuable animal habitats) within 30 m of the Site, and sites where soil pH lies outside the range of 5 to 9 for shallow soil and 5 to 11 for deep soil.

The Site is not located within an area of natural significance (such as wetlands, provincial parks, nature reserves and valuable animal habitats), does not include and is not adjacent to an area of natural significance or part of such an area, and does not include land that is within 30 m of an area of natural significance or part of such an area.

Soil pH values are within the required ranges.

Areas Where Soil has been Brought to the Property: Piles of constructions debris and fill material was observed at the Site during the Phase One ESA site reconnaissance. Chemical analysis and visual assessment determined the fill material to be unsuitable to remain on-site, and all fill piles comprised of soil, as per the definition in O.Reg 153/04, were removed from the Site, as documented in the report titled *Fill Pile Management Report Letter, 2660-2680 Brock Road, Pickering Ontario*, dated May 26, 2022 and appended to this report in Appendix VI.

Locations of Proposed Buildings and Structures: At the time of this investigation, there were two vacant residential dwellings on the Phase Two Property. We understand that the Site will be developed with several blocks of 3-storey above grade townhouses without basement levels.

CONTAMINATION

Media of Concern: Contaminants have not been identified in soil and groundwater at the Site. Sediment is not present at the Site.

Contaminants of Concern: Fill piles identified during the Phase One ESA had concentrations of nickel (a metal), boron (hot water soluble) and various PAH parameters more than the applicable Table 2 SCS. However, following the removal of the fill piles, the remaining soil on-site had concentrations of metal and inorganic parameters, PAHs, PHCs, and VOCs less than the applicable Table 2 SCS. All groundwater samples collected from the Site had concentrations of metal and inorganic parameters, PAHs, PHCs and VOCs less than the applicable Table 2 SCS. Therefore, there are no contaminants of concern (COCs) in soil and groundwater at the Site.

Areas, Origin, Extent, Distribution and Delineation of Contamination: Fill piles observed on-site during the Phase One ESA, were deposited on-site from un-authorized access and appeared to comprise fill materials including inert construction debris, sand and gravel. The fill piles were primarily located around the residences.

The Phase Two ESA investigation identified exceedances of Table 2 site condition standards (SCS) for the metal Nickel, the regulated parameter Boron (hot water soluble), and PAH parameters Benzo(a)pyrene, Dibenzo[a h]anthracene, Fluoranthene, and Indeno[1 2 3-cd]pyrene at several locations where fill piles were present. Though not all fill piles were analyzed, it was conservatively assumed that similar chemical conditions were present at all locations, as the observed material comprising the fill piles was similar.

The fill pile management activities were overseen by Terrapex between October 2021 and January 2022, and documented in the letter report titled *Fill Pile Management Report Letter, 2660-2680 Brock Road, Pickering Ontario*, dated May 26, 2022 and appended to this report in Appendix VI. A total of 194.23 tonnes of fill was transported to the GFL facility in Pickering, Ontario. Based on the analytical results, the soil remaining on-site meets the Table 2 SCS.

Migration of Contaminants: In general, potential preferential migration pathways for sub-surface contaminants at a Site comprise buried utilities, naturally occurring sand seams, or other subsurface areas of increased permeability. As discussed above, underground utilities are not considered to represent potential migration pathways for the Site.

Climatic or Meteorological Impacts on Contaminant Migration: Seasonal fluctuation in water levels is expected to be minimal and regional in nature. Meteorological and climatic trends will have influence on potentially contaminating activity, with winter conditions resulting in periods of road salt application to the ground surfaces of the Site. However, strictly speaking, meteorological

conditions themselves have not directly influenced any contaminant migration at the Site, as impacts were not identified.

Soil Vapour Intrusion of Contaminants into Buildings: As volatile contaminants have not been identified at the Site, there are no concerns related to the intrusion of vapours into the existing or future buildings at the Site.

CROSS-SECTIONS

Lateral and Vertical Distribution of Contaminants: Impacted soil was not identified on the Site.

Depth to Water in Contaminated Areas: Impacted groundwater was not identified on the Site.

Stratigraphy in Contaminated Areas: Impacted soil was not identified on the Site.

Subsurface Structures and Utilities in Contaminated Areas: Impacted soil and groundwater were not identified on the Site.

RISK ANALYSIS

Risk assessment, in the context of properties potentially impacted by contaminants, is the process of estimating the likelihood of undesirable effects on human and ecological health resulting from exposure to chemical contaminants. Three components must be present for risks to human or ecological health to exist at sites impacted by contaminants:

- the contaminant must be present at concentrations sufficient to cause a possible adverse effect;
- a receptor (human or ecological) must be present; and,
- there must be a complete exposure pathway by which the receptor can come into contact with the contaminant.

As no COCs were identified on-Site, there are no potential human or ecological receptors or exposure pathways. Therefore, there are no risks to human or ecological health.

7.0 CONCLUSIONS

The Phase Two ESA investigation of the Site, as documented in this report, indicated that contaminants of concern (nickel, a metal, boron (hot water soluble), and PAH parameters) were identified within fill piles at the Site. Following removal of the fill piles, no contaminants of concerns remain on the Phase Two Property.

Sediment is not present at the Site, and therefore contaminants of concern are not present within sediment.

The date of the last work on all of the planning of the Site investigation, conducting the investigation, and receiving and evaluating the information gathered during the Site inspection for the Phase Two ESA (per Section 33.5 (1) (a) of O. Reg. 153/04) is April 1, 2022, the date the final laboratory results were received and reviewed. For the purposes of filing a Record of Site Condition, the Certification Date of the Phase Two ESA (per Section 17 (3) of O. Reg. 153/04) is April 1, 2022.

7.1 SIGNATURES

This report has been completed in accordance with the terms of reference for this project as agreed upon by Brock Zents Partnership Ltd. and Terrapex Environmental Ltd. and generally accepted engineering or environmental consulting practices in this area.

The reported information is believed to provide a reasonable representation of the general environmental conditions at the site; however, studies of this nature have inherent limitations. The data were collected at specific locations and conditions may vary at other locations, or with the passage of time. The assessment was also limited to a study of those chemical parameters specifically addressed in this report.

Terrapex has relied in good faith on information and representations obtained from the Client and third parties and, except where specifically identified, has made no attempt to verify such information. Terrapex accepts no responsibility for any deficiency or inaccuracy in this report as a result of any misstatement, omission, misrepresentation, or fraudulent act of those providing information. Terrapex shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time of the study.

This report has been prepared for the sole use of Brock Zents Partnership Ltd. Terrapex accepts no liability for claims arising from the use of this report, or from actions taken or decisions made as a result of this report, by parties other than Brock Zents Partnership Ltd.

Respectfully Submitted,
TERRAPEX ENVIRONMENTAL LTD.



Sara Sutherland, CET, EP
Project Manager



Steven Ruminsky, P.Eng., P. Geo.
Senior Reviewer
Qualified Person per O.Reg. 153/04

8.0 REFERENCES

Ontario Regulation 153/04, *Records of Site Condition – Part XV.1 of the Environmental Protection Act*.

Topographic Map: National Topographic Systems (NTS), Natural Resources Canada, Toporama web-based mapping application

Ontario Base Map (OBM): MNR, 2010, available from ERIS.

Quaternary Geology of Ontario, Southern Sheet, Map 2556, Ministry of Northern Development and Mines, 1991.

Bedrock Geology of Ontario, Southern Sheet, Ontario Geological Survey, Map 2544, Ministry of Northern Development and Mines, 1991.

Aerial photographs for the years 1946, 1964, 1974, 1988 available through NAPL, year 1954 from the Town of Pickering and years 2002, 2005, 2009, and 2018 available from the Google Earth website (<http://earth.google.com/>).

Ministry of the Environment (MOE), *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*, April 15, 2011.

Plan of Survey: *Part of Lots 1, 2, and 3, Registered Plan 585, City of Pickering*, prepared by KRCMAR Surveyors Ltd., OLS, dated February 26, 2018

Environmental Reports:

Geotechnical Investigation Report, Proposed Residential Development, 2660, 2670, 2680, and Part of Lot 19, Concession 3, Parts 3 and 4 of Plan 40R-27228, Pickering, Ontario, prepared by Terrapex, August 23, 2019, Revised February 2, 2022. (final)

Hydrogeological Review-UPDATE, Townhouse Developments, 2660 to 2680 Brock Road, and Part of Lot 19, Concession 3; Part 3 and Part 4 on Plan 40R-27228, Pickering, Ontario, prepared by Terrapex, 26 May 2022. (final)

Fill Pile Management Report Letter, 2660-2680 Brock Road, Pickering Ontario, dated May 26, 2022

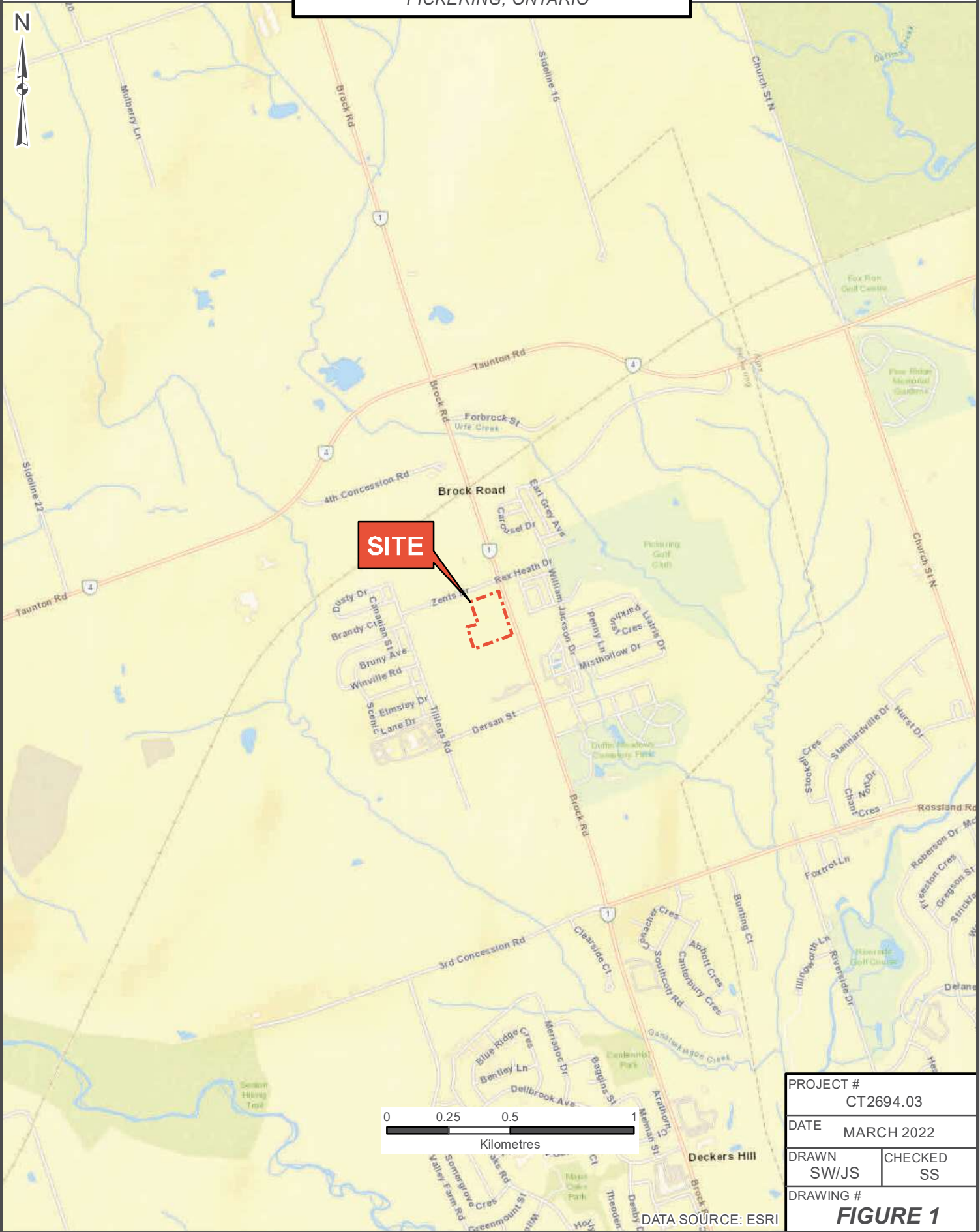
FIGURES

SITE LOCATION

2660-2680 BROCK ROAD
PICKERING, ONTARIO

CLIENT

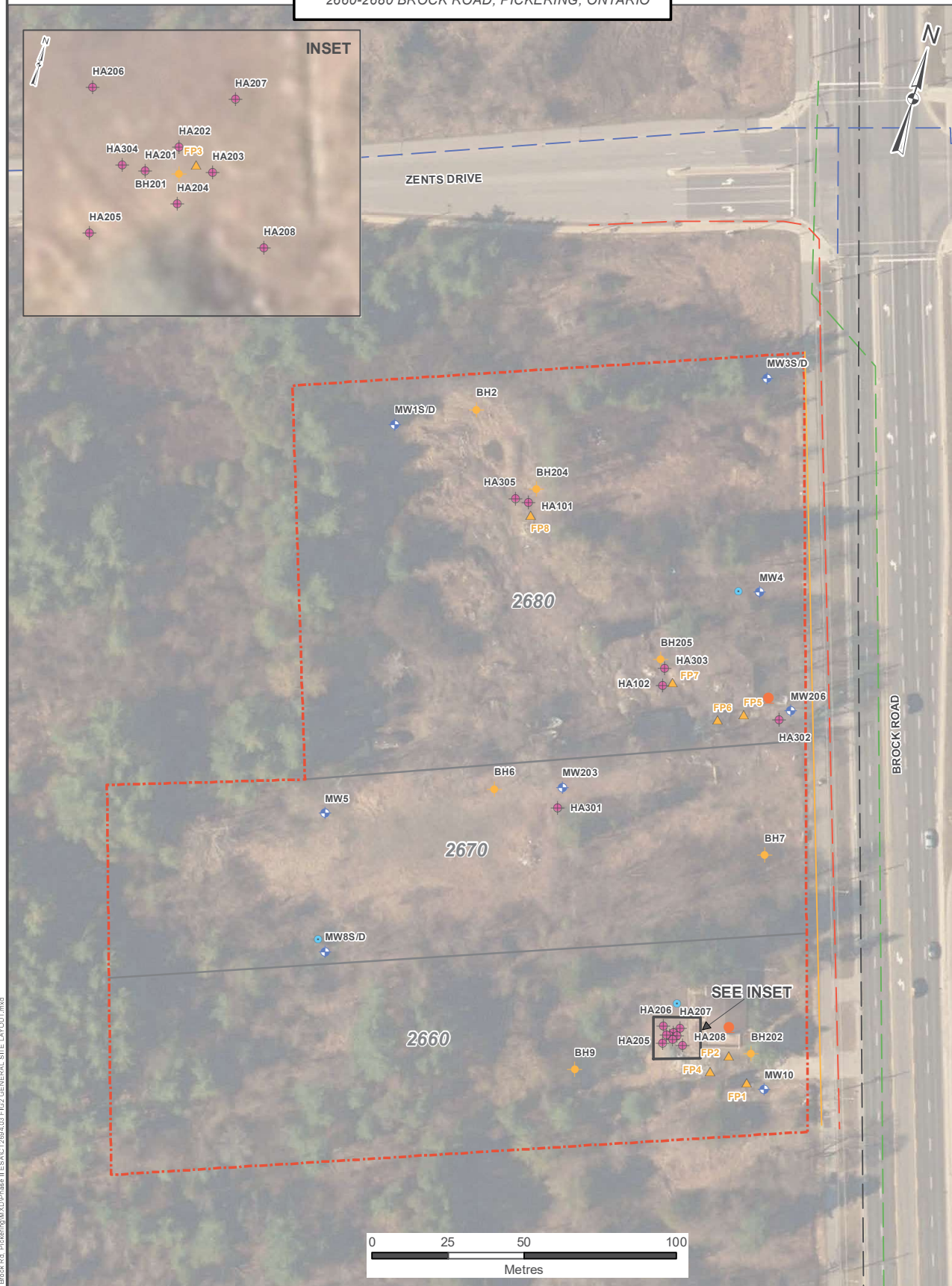
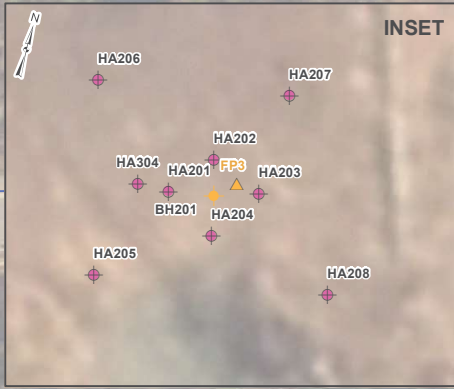
THE BROCK ZENTS
PARTNERSHIP



jserroul W:\PROJECTS\Toronto\CT2694.03_2660-2680 Brock Rd, Pickering\MXD\Phase II ESA\CT2694.03 FIG1 SITE LOCATION.mxd

PROJECT #	
CT2694.03	
DATE	
MARCH 2022	
DRAWN	CHECKED
SW/JS	SS
DRAWING #	
FIGURE 1	

DATA SOURCE: ESRI



LEGEND			
	SITE BOUNDARY		BOREHOLE
	FUEL STORAGE TANKS		HAND AUGER
	PARCELS		MONITORING WELL
	FILL PILE		WATER WELL
	HYDRO		SANITARY SEWER
	STORM SEWER		TELECOMMUNICATIONS
	WATERMAIN		

PROJECT #		CT2694.03
DATE		MAY 2022
DRAWN	CHECKED	
JS	SS	
DRAWING #		FIGURE 2

DATA SOURCE: VUMAP

I:\erold\W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd Pickering\MXD\Phase II\ESACT2694.03 F102 GENERAL SITE LAYOUT.mxd



jserrail W:\PROJECTS\Toronto\CT2694.03_2660-2680 Brock Rd, Pickering\MXD\Phase II ESA\CT2694.03_FIG3 STUDY AREA.mxd

LEGEND

- SITE BOUNDARY
- STUDY AREA



PROJECT #		CT2694.03	
DATE		MARCH 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 3	

DATA SOURCE: VUMAP, 2020



jserroul W:\PROJECTS\Toronto\CT2694.03_2660-2680_Brock Rd, Pickering\MXD\Phase II ESA\CT2694.03 FIG4_PCAs.mxd

LEGEND

- SITE BOUNDARY
- STUDY AREA
- POTENTIALLY CONTAMINATING ACTIVITIES



PROJECT #		CT2694.03	
DATE		MARCH 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 4	



LEGEND

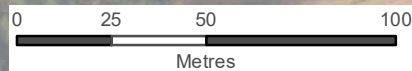
 SITE BOUNDARY

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

 APEC-1

 APEC-2

 APEC-3

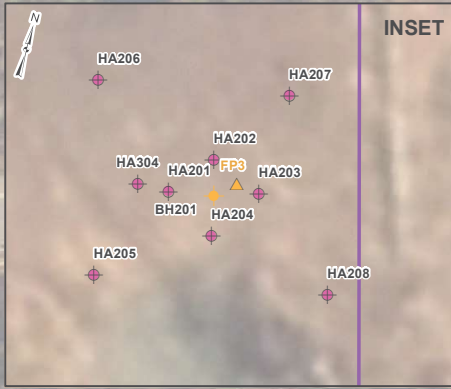


PROJECT #
CT2694.03

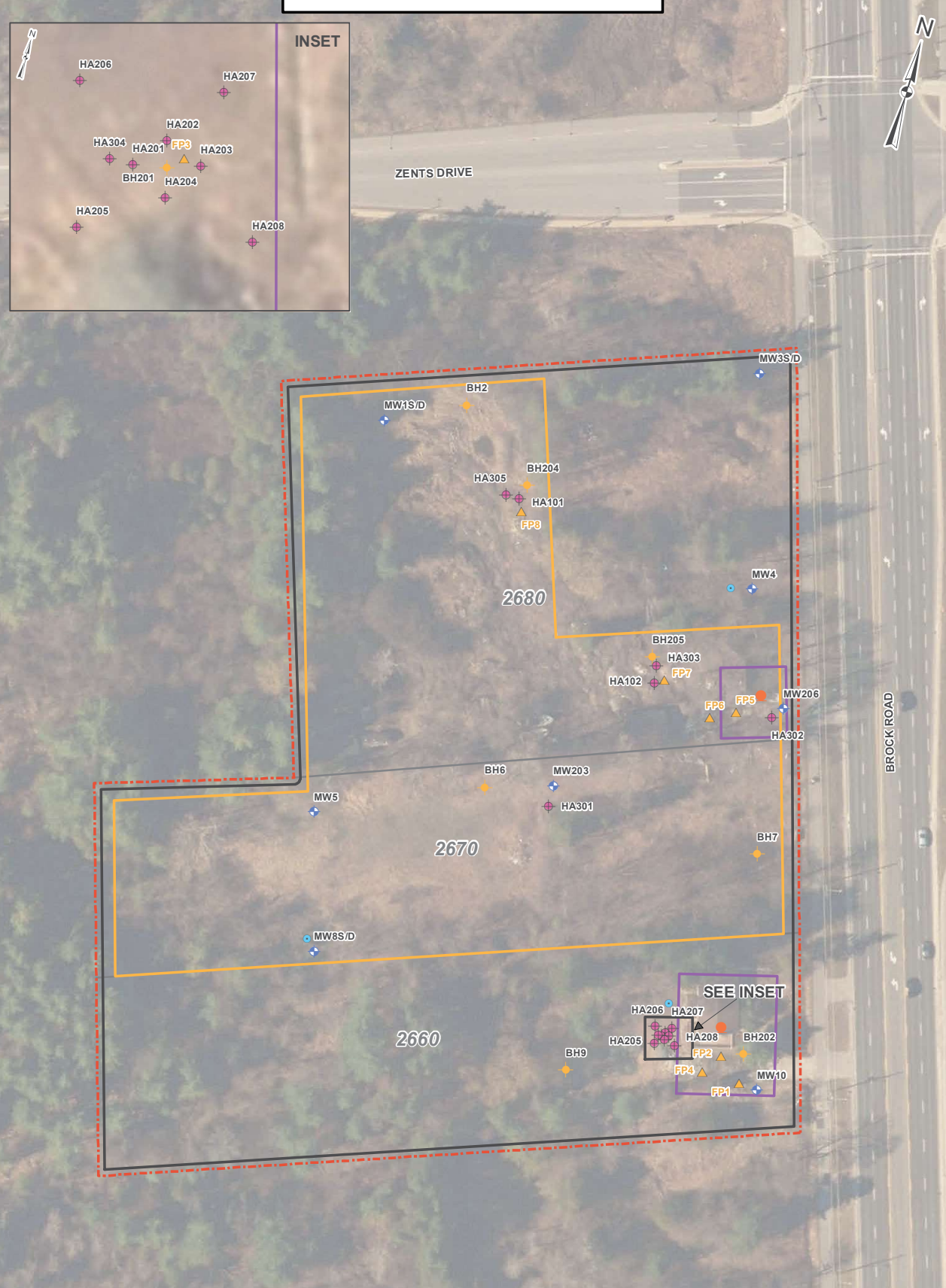
DATE
MARCH 2022

DRAWN JS	CHECKED SS
-------------	---------------

DRAWING #
FIGURE 5A

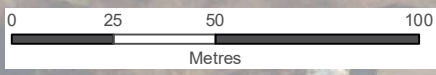


I:\eroll\W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd. Pickering\MXD\Phase II\ESACT2694.03 FIG5B\APECs_SAMPLE_LOCATIONS.mxd



LEGEND

SITE BOUNDARY	SAMPLE LOCATIONS
FUEL STORAGE TANKS	FILL PILE
PARCELS	BOREHOLE
APEC-1	HAND AUGER
APEC-2	MONITORING WELL
APEC-3	WATER WELL



PROJECT #		CT2694.03	
DATE		MAY 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 5B	



ZENTS DRIVE

REX HEATH DRIVE

GARRISON CROSSING

BROCK ROAD



jserroul.W:\PROJECTS\Toronto\ICT2694.03\2660-2680 Brock Rd. Pickering\MXD\Phase II ESA\CT2694.03 FIG6 GW FLOW DIRECTION.mxd

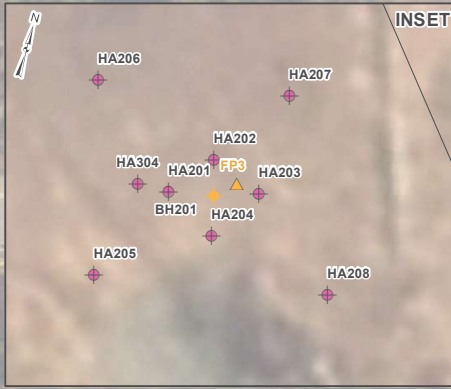
LEGEND

- SITE BOUNDARY
- MONITORING WELL
- EQUIPOTENTIAL CONTOUR
- INTERPRETED DIRECTION OF GROUNDWATER MOVEMENT



PROJECT #		CT2694.03	
DATE		MARCH 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 6	

DATA SOURCE: VUMAP, 2020



I:\arroll\W\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd Pickering\MXD\Phase II\ESACT2694_03_FIG7A_CROSS SECTION LOCATIONS.mxd



LEGEND

- SITE BOUNDARY
- ◆ BOREHOLE
- HAND AUGER
- MONITORING WELL
- WATER WELL
- ▲ FILL PILE
- PARCELS
- ↔ CROSS SECTIONS

SAMPLE LOCATIONS



PROJECT #		CT2694.03	
DATE		MAY 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 7A	



CROSS SECTION A-A'
2660-2680 BROCK ROAD
PICKERING, ONTARIO

CLIENT

THE BROCK ZENTS PARTNERSHIP

LOOKING NORTH EAST

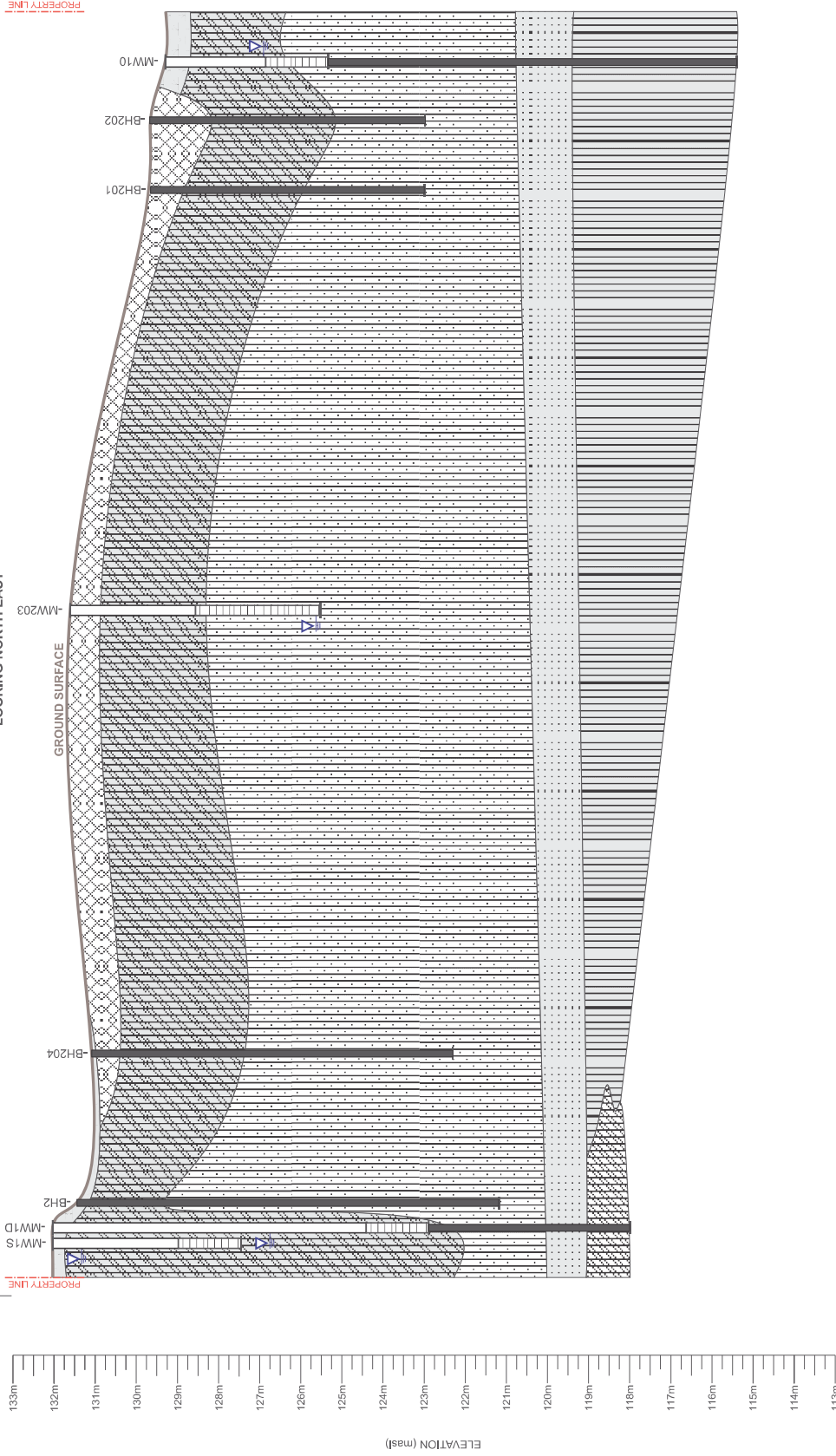
A'

PROPERTY LINE

A

PROPERTY LINE

A



LEGEND

	FILL		CLAYEY SILT		- MONITORING WELL		- BOREHOLE
	TOPSOIL		SILTY SAND		GROUNDWATER LEVEL (AS OF OCTOBER 27, 2021)		
	SANDY CLAYEY SILT		SANDY SILT / SILTY SAND TILL		- SCREENED LEVEL		
	SAND AND GRAVEL						

NOTES

1. STRATIGRAPHY BETWEEN BOREHOLE LOCATIONS IS INTERPOLATED.
2. LOCATIONS AND DEPTHS OF BURIED INFRASTRUCTURE ARE APPROXIMATE AND ASSUMED.



PROJECT #	CT2694.03
SCALE	AS SHOWN
DATE	APRIL 2022
DRAWN	JS
CHECKED	SS
DRAWING #	

FIGURE 7B



CROSS SECTION B-B'
2660-2680 BROCK ROAD
PICKERING, ONTARIO

CLIENT

THE BROCK ZENTS PARTNERSHIP

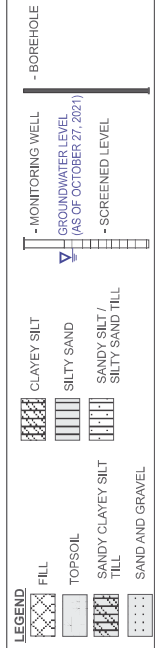
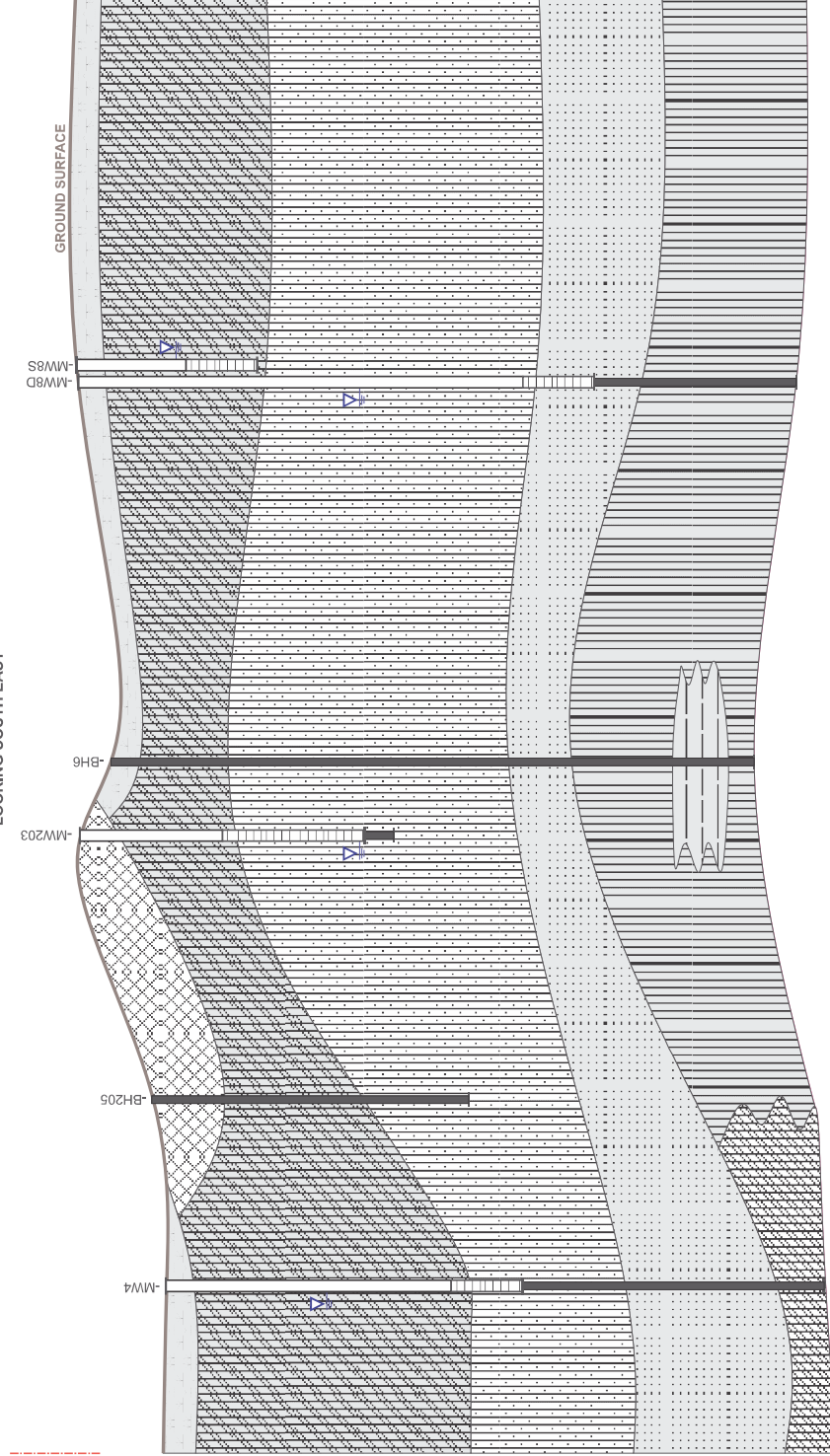
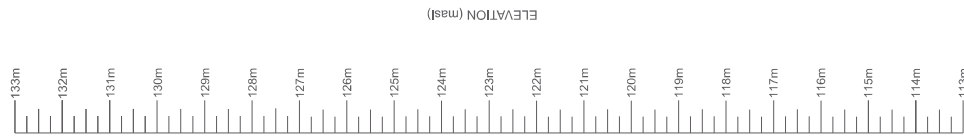
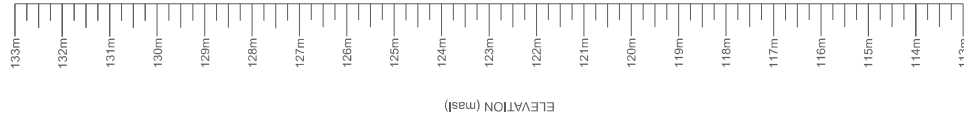
LOOKING SOUTH EAST

B

B'

PROPERTY LINE

PROPERTY LINE



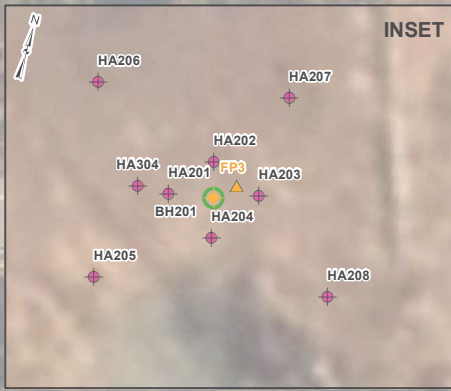
NOTES

1. STRATIGRAPHY BETWEEN BOREHOLE LOCATIONS IS INTERPOLATED.
2. LOCATIONS AND DEPTHS OF BURIED INFRASTRUCTURE ARE APPROXIMATE AND ASSUMED.

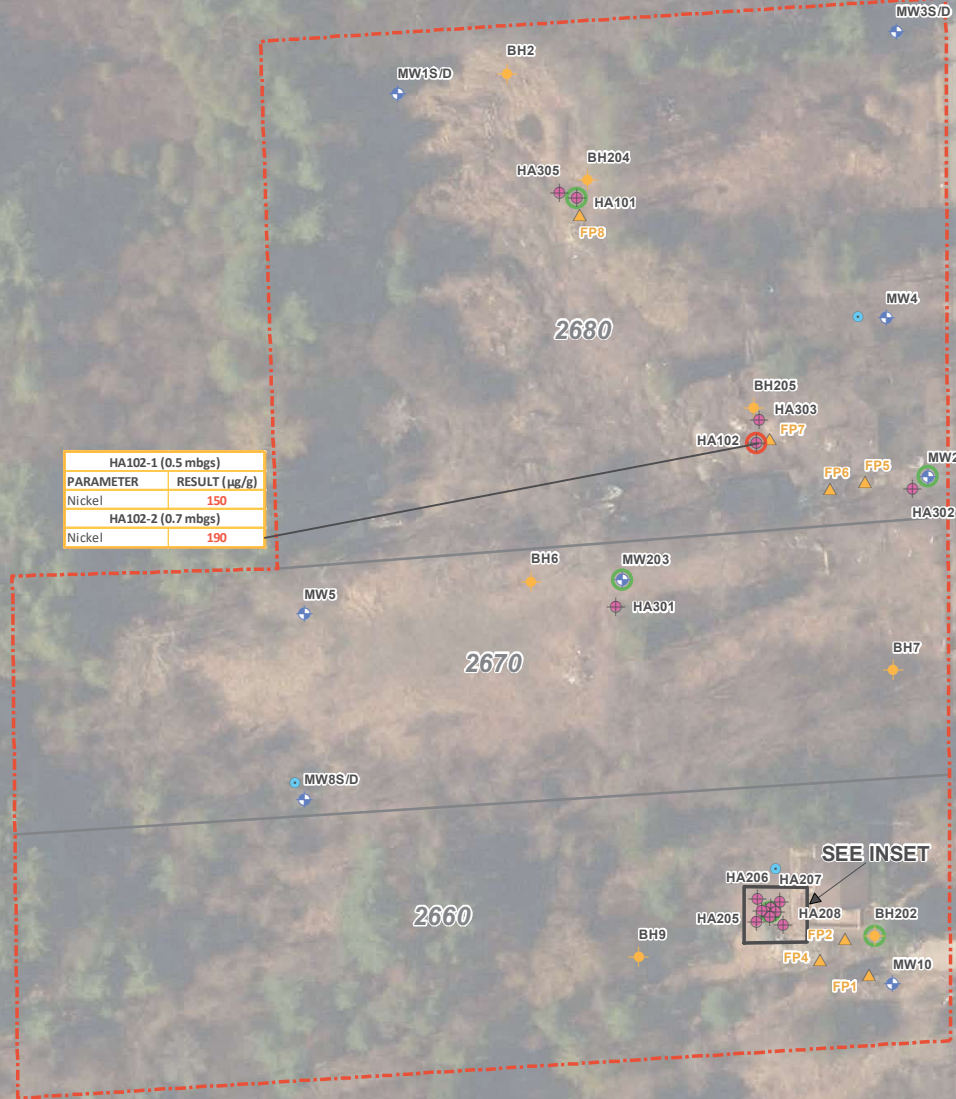


PROJECT #	CT2694.03
SCALE	AS SHOWN
DATE	APRIL 2022
DRAWN BY	JS
CHECKED	SS
DRAWING #	

FIGURE 7C



I:\errol\W\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694_03_FIG8A SOIL RESULTS - METALS.mxd



HA102-1 (0.5 mbgs)	
PARAMETER	RESULT (µg/g)
Nickel	150
HA102-2 (0.7 mbgs)	
Nickel	190

LEGEND

- SITE BOUNDARY
- PARCELS
- SAMPLE LOCATIONS**
- FILL PILE
- BOREHOLE
- HAND AUGER
- MONITORING WELL
- WATER WELL

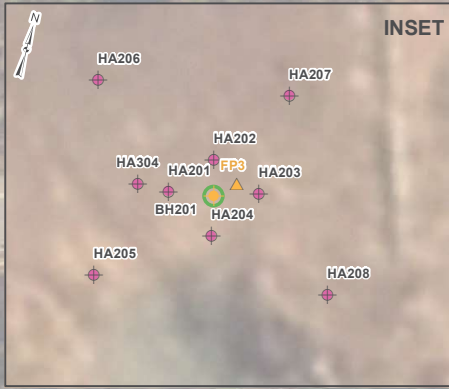
- ANALYSIS INFORMATION**
- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
 - EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Nickel	100



PROJECT #		CT2694.03
DATE		MAY 2022
DRAWN	CHECKED	
JS	SS	
DRAWING #		FIGURE 8A

DATA SOURCE: VUMAP



LEGEND

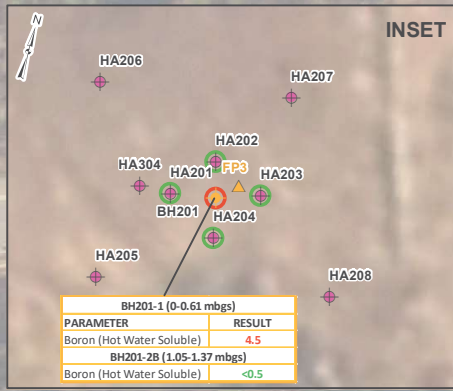
SITE BOUNDARY	ANALYSIS INFORMATION
PARCELS	LESS THAN OR EQUAL TO MECPP TABLE 2SCS
SAMPLE LOCATIONS	
FILL PILE	
BOREHOLE	
HAND AUGER	
MONITORING WELL	
WATER WELL	



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 8B	

DATA SOURCE: VUMAP

I:\errol\W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03 FIG8B SOIL_RESULTS - HF METALS.mxd


LEGEND

- SITE BOUNDARY
- PARCELS
- SAMPLE LOCATIONS**
- FILL PILE
- BOREHOLE
- HAND AUGER
- MONITORING WELL
- WATER WELL

ANALYSIS INFORMATION

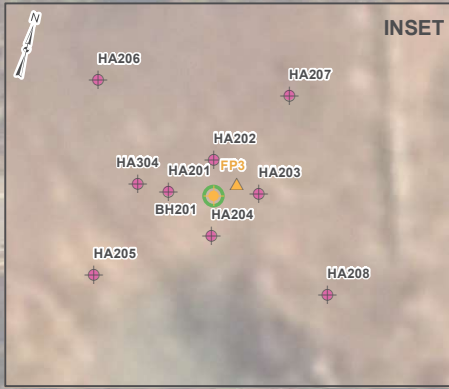
- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Boron (Hot Water Soluble)	1.5

I:\errol\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694_03_FIG8C_SOIL_RESULTS - BHWS.mxd

DATA SOURCE: VUMAP

PROJECT #		CT2694.03	
DATE		MAY 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 8C	



LEGEND

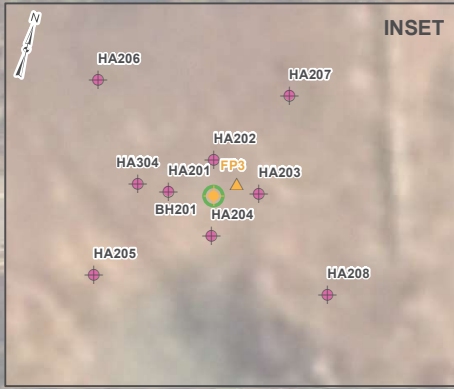
SITE BOUNDARY	ANALYSIS INFORMATION
PARCELS	LESS THAN OR EQUAL TO MECPP TABLE 2 SCS
SAMPLE LOCATIONS	
FILL PILE	
BOREHOLE	
HAND AUGER	
MONITORING WELL	
WATER WELL	



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 8D	

DATA SOURCE: VUMAP

I:\arroll\W\PROJECTS\Toronto\CT2694.03_2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03 FIG8D SOIL_RESULTS - CR V.mxd



LEGEND

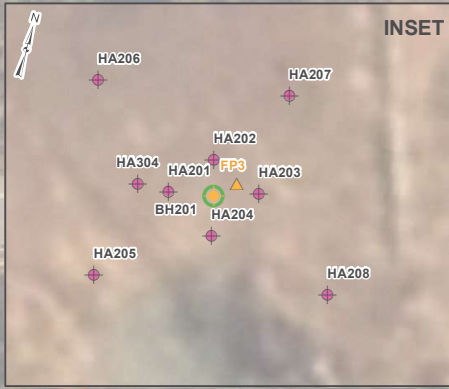
SITE BOUNDARY	ANALYSIS INFORMATION
PARCELS	LESS THAN OR EQUAL TO MECPP TABLE 2 SCS
SAMPLE LOCATIONS	
FILL PILE	
BOREHOLE	
HAND AUGER	
MONITORING WELL	
WATER WELL	



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 8E	

DATA SOURCE: VUMAP

I:\errol\W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03 FIG8E SOIL_RESULTS - CN.mxd



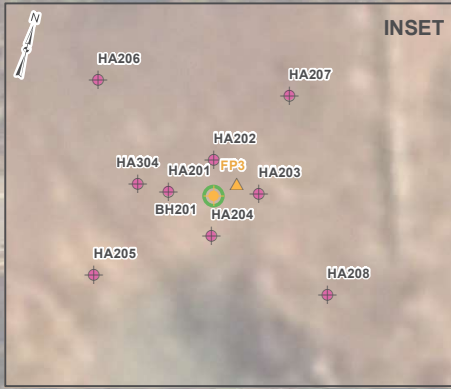
LEGEND

SITE BOUNDARY	ANALYSIS INFORMATION
PARCELS	LESS THAN OR EQUAL TO MECPP TABLE 2 SCS
SAMPLE LOCATIONS	
FILL PILE	
BOREHOLE	
HAND AUGER	
MONITORING WELL	
WATER WELL	



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 8F	

I:\errol\W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03 FIG8F SOIL RESULTS - Hg.mxd



LEGEND

SITE BOUNDARY

PARCELS

SAMPLE LOCATIONS

FILL PILE

BOREHOLE

HAND AUGER

MONITORING WELL

WATER WELL

ANALYSIS INFORMATION

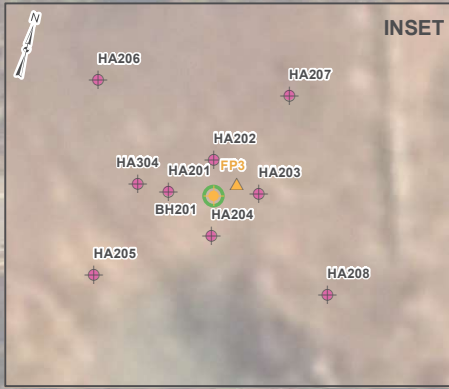
LESS THAN OR EQUAL TO MECPP TABLE 2 SCS



PROJECT #		CT2694.03	
DATE		MAY 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 8G	

DATA SOURCE: VUMAP

I:\eroll\W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03 FIG8G SOIL RESULTS - EC_SAR.mxd



LEGEND

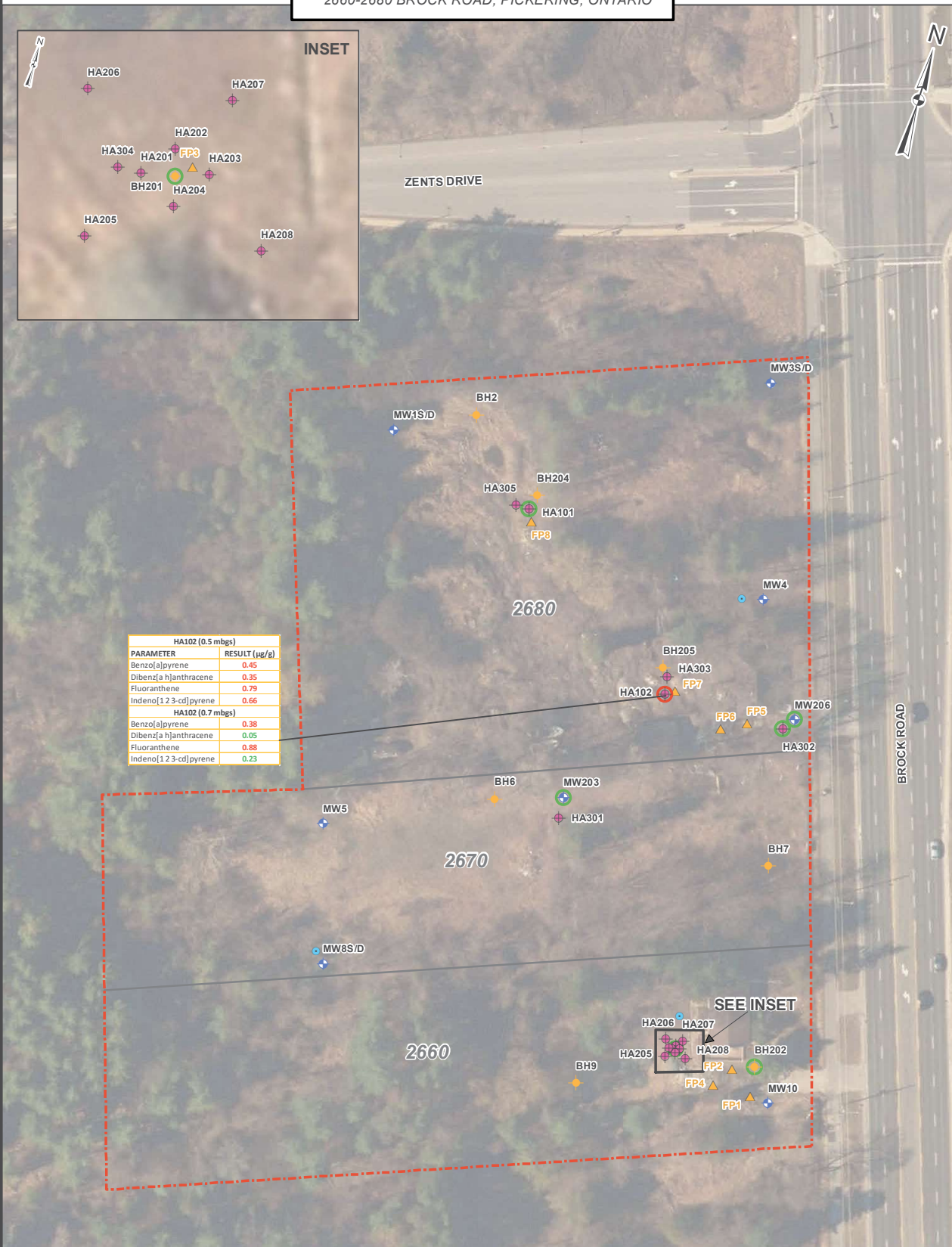
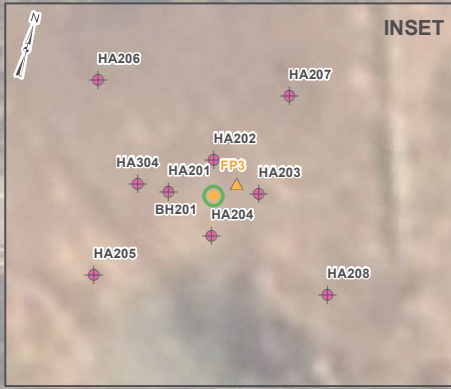
SITE BOUNDARY	ANALYSIS INFORMATION
PARCELS	LESS THAN OR EQUAL TO MECPP TABLE 2 SCS
SAMPLE LOCATIONS	
FILL PILE	
BOREHOLE	
HAND AUGER	
MONITORING WELL	
WATER WELL	



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 8H	

DATA SOURCE: VUMAP

I:\errol\W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03 FIG8H SOIL RESULTS - pH.mxd



HA102 (0.5 mbgs)	
PARAMETER	RESULT (µg/g)
Benzo[a]pyrene	0.45
Dibenzo[a,h]anthracene	0.35
Fluoranthene	0.79
Indeno[1,2,3-cd]pyrene	0.66
HA102 (0.7 mbgs)	
Benzo[a]pyrene	0.38
Dibenzo[a,h]anthracene	0.05
Fluoranthene	0.88
Indeno[1,2,3-cd]pyrene	0.23

LEGEND

- SITE BOUNDARY
- PARCELS
- SAMPLE LOCATIONS**
- FILL PILE
- BOREHOLE
- HAND AUGER
- MONITORING WELL
- WATER WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS

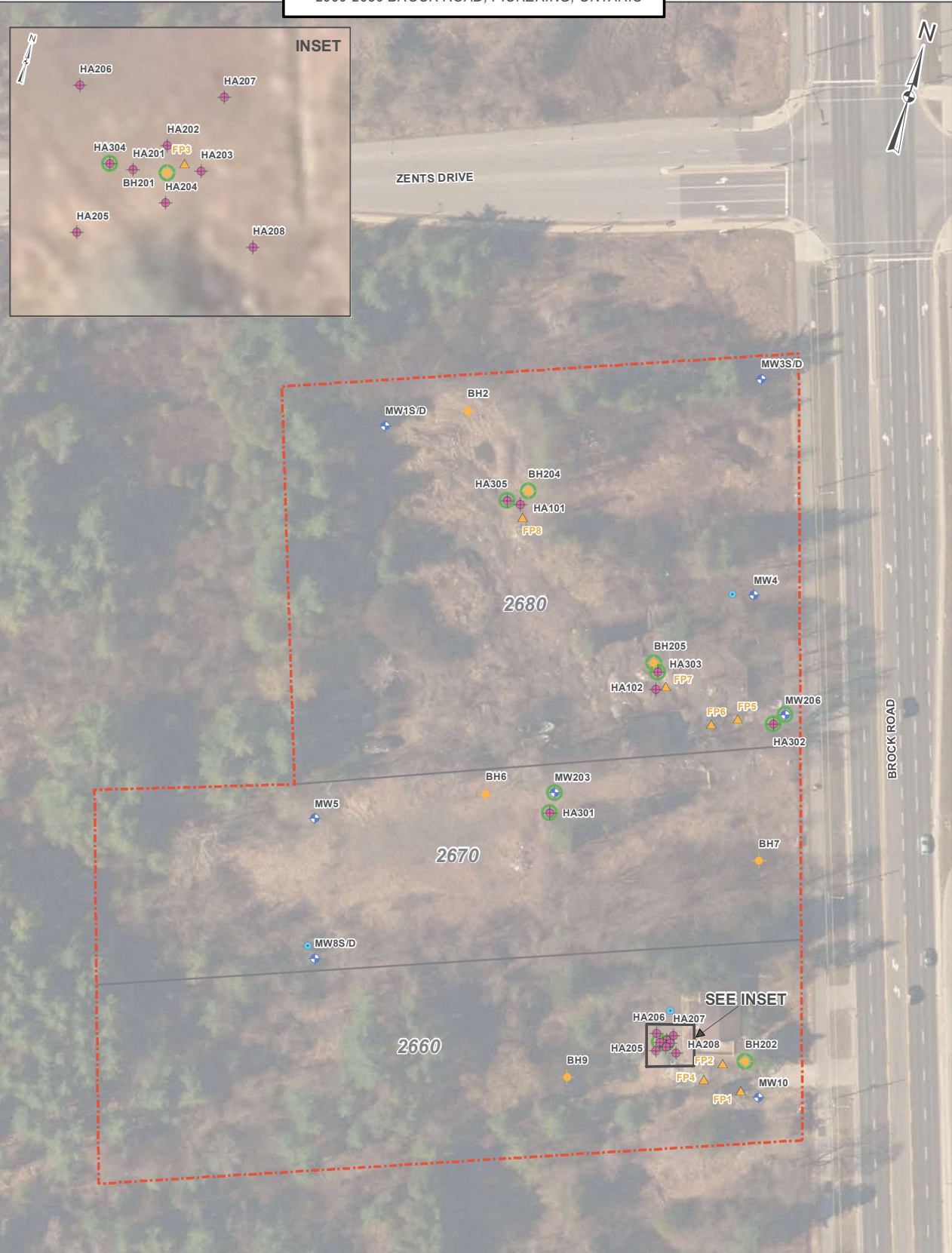
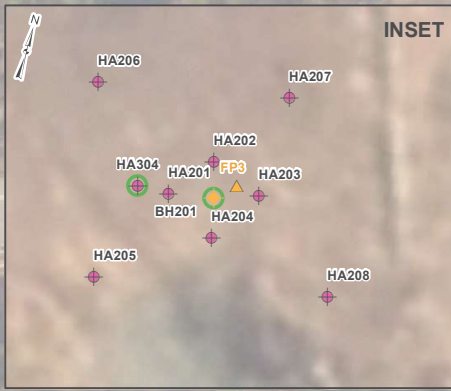
PARAMETER	MECP TABLE 2 SCS
Benzo[a]pyrene	0.3
Dibenzo[a,h]anthracene	0.1
Fluoranthene	0.69
Indeno[1,2,3-cd]pyrene	0.38



I:\erod\W\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694_03_FIG81_SOIL_RESULTS - PAHS.mxd

DATA SOURCE: VUMAP

PROJECT #		CT2694.03	
DATE		MAY 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 81	



LEGEND

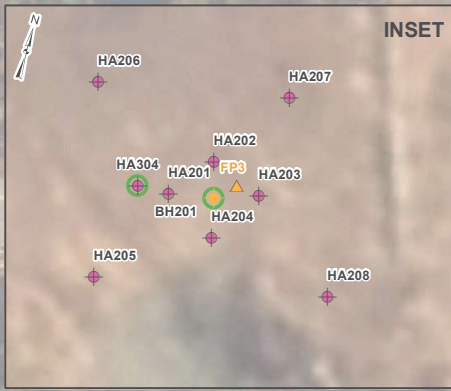
SITE BOUNDARY	ANALYSIS INFORMATION
PARCELS	LESS THAN OR EQUAL TO MECPP TABLE 2 SCS
SAMPLE LOCATIONS	
FILL PILE	
BOREHOLE	
HAND AUGER	
MONITORING WELL	
WATER WELL	



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 8J	

DATA SOURCE: VUMAP

I:\eroll\W\PROJECTS\Toronto\CT2694.03\2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03\FIG8J_SOIL_RESULTS - BTEX.mxd



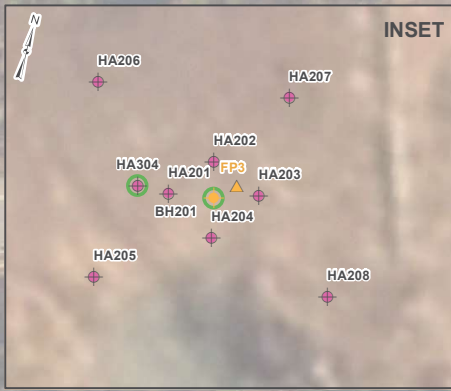
LEGEND

SITE BOUNDARY	ANALYSIS INFORMATION
PARCELS	LESS THAN OR EQUAL TO MECP TABLE 2 SCS
SAMPLE LOCATIONS	
FILL PILE	
BOREHOLE	
HAND AUGER	
MONITORING WELL	
WATER WELL	



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 8K	

I:\eroll\W\PROJECTS\Toronto\CT2694.03\2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03\FI8K SOIL_RESULTS - PHCS.mxd



LEGEND

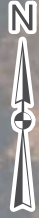
SITE BOUNDARY	ANALYSIS INFORMATION
PARCELS	LESS THAN OR EQUAL TO MECPC TABLE 2 SCS
SAMPLE LOCATIONS	
FILL PILE	
BOREHOLE	
HAND AUGER	
MONITORING WELL	
WATER WELL	



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 8L	

DATA SOURCE: VUMAP

I:\eroll\W\PROJECTS\Toronto\CT2694.03\2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03\FIG8L_SOIL_RESULTS - VOCs.mxd

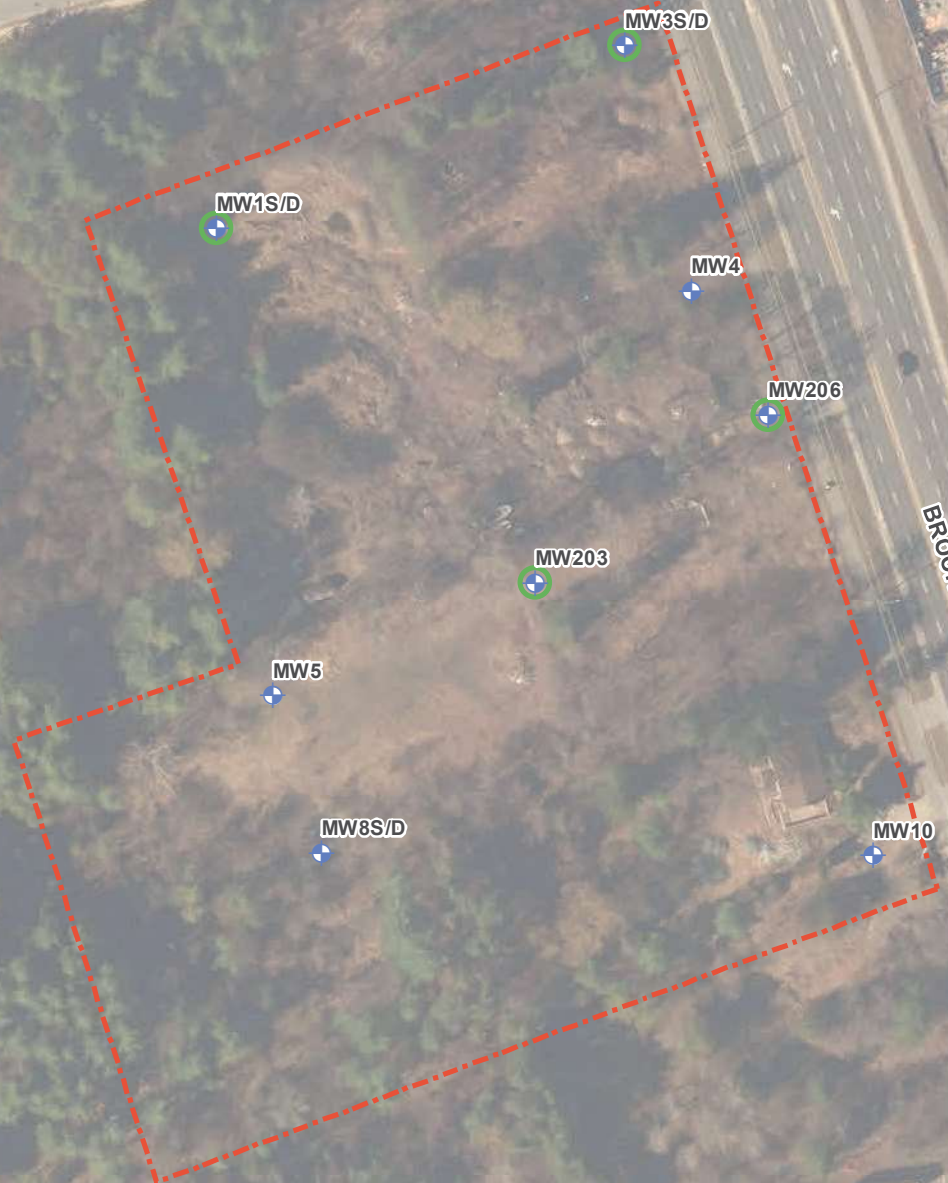


ZENTS DRIVE

REX HEATH DRIVE

GARRISON CROSSING

BROCK ROAD



jserroul.W:\PROJECTS\Toronto\CT2694.03\2660-2680 Brock Rd. Pickering\MXD\Phase II ESA\CT2694.03 FIG9A.GW RESULTS - METALS.mxd

LEGEND

- SITE BOUNDARY
- MONITORING WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS

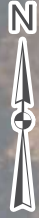


PROJECT #
CT2694.03

DATE
MARCH 2022

DRAWN JS	CHECKED SS
-------------	---------------

DRAWING #
FIGURE 9A



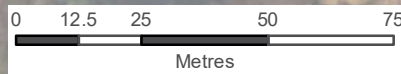
jserroul.W:\PROJECTS\Toronto\CT2694.03\2660-2680 Brock Rd. Pickering\MXD\Phase II ESA\CT2694.03 FIG9B.GW RESULTS - HF METALS.mxd

LEGEND

- SITE BOUNDARY
- MONITORING WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS



PROJECT # CT2694.03	
DATE MARCH 2022	
DRAWN JS	CHECKED SS
DRAWING # FIGURE 9B	



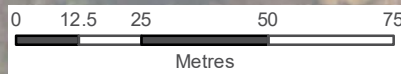
NOTE: OTHER REGULATED PARAMETERS INCLUDE BORON, HEXAVALENT CHROMIUM, CYANIDE, MERCURY, SODIUM, CHLORIDE AND PH.

LEGEND

- SITE BOUNDARY
- MONITORING WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS



PROJECT #
CT2694.03

DATE
MARCH 2022

DRAWN JS	CHECKED SS
-------------	---------------

DRAWING #
FIGURE 9C



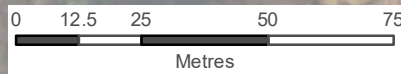
jserroul.W:\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd. Pickering\MXD\Phase II ESA\CT2694.03 FIG9D.GW RESULTS - PAHs.mxd

LEGEND

- SITE BOUNDARY
- MONITORING WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS



PROJECT #		CT2694.03	
DATE		MARCH 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 9D	



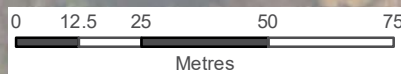
jserroul.W:\PROJECTS\Toronto\CT2694.03\2660-2680 Brock Rd. Pickering\MXD\Phase II ESA\CT2694.03 FIG9E.GW RESULTS - BTEX.mxd

LEGEND

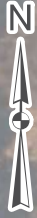
- SITE BOUNDARY
- MONITORING WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS



PROJECT #	
CT2694.03	
DATE	
MARCH 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 9E	



jserroul.W:\PROJECTS\Toronto\CT2694.03\2660-2680 Brock Rd. Pickering\MXD\Phase II ESA\CT2694.03 FIG9F GW RESULTS - PHCs.mxd

LEGEND

- SITE BOUNDARY
- MONITORING WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS



PROJECT #		CT2694.03	
DATE		MARCH 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 9F	



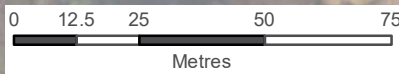
jserroul.W:\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd. Pickering\MXD\Phase II ESA\CT2694.03 FIG9G.GW RESULTS - VOCs.mxd

LEGEND

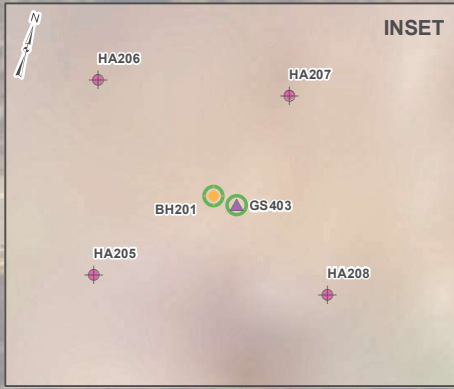
- SITE BOUNDARY
- MONITORING WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS



PROJECT #		CT2694.03	
DATE		MARCH 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 9G	



G:\arroll\W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd. Pickering\MXD\Phase II\ESACT2694.03 FIG10A SOIL RESULTS - METALS.mxd



LEGEND

- SITE BOUNDARY
- PARCELS
- ▲ FILL PILE
- ◆ BOREHOLE
- ◆ HAND AUGER
- + MONITORING WELL
- ▲ GRAB SAMPLE
- WATER WELL

ANALYSIS INFORMATION

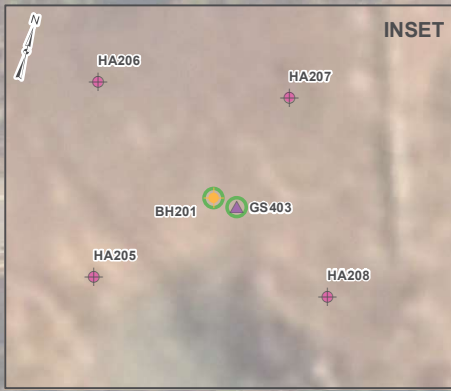
- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Nickel	100



PROJECT #		CT2694.03	
DATE		MAY 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 10A	

DATA SOURCE: VUMAP



LEGEND

SITE BOUNDARY
 SITE BOUNDARY

PARCELS
 PARCELS

SAMPLE LOCATIONS

- FILL PILE
- BOREHOLE
- HAND AUGER
- MONITORING WELL
- GRAB SAMPLE
- WATER WELL

ANALYSIS INFORMATIONS

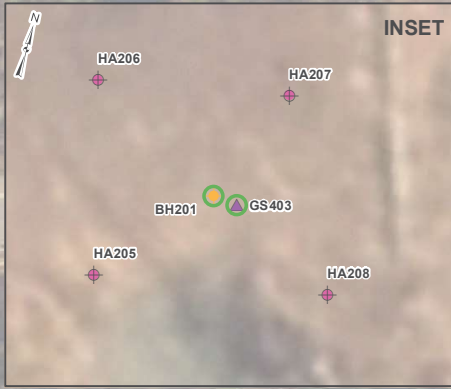
- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Boron (Hot Water Soluble)	1.5



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 10B	

I:\erold W\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd, Pickering\MXD\Phase II\ESACT2694.03 FIG10B_SOIL_RESULTS - BORON.mxd



LEGEND

- SITE BOUNDARY
- PARCELS
- SAMPLE LOCATIONS**
- FILL PILE
- BOREHOLE
- HAND AUGER
- MONITORING WELL
- GRAB SAMPLE
- WATER WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Benzo[a]pyrene	0.3
Dibenz[a,h]anthracene	0.1
Fluoranthene	0.69
Indeno[1,2,3-cd]pyrene	0.38



PROJECT #	
CT2694.03	
DATE	
MAY 2022	
DRAWN	CHECKED
JS	SS
DRAWING #	
FIGURE 10C	

I:\PROJECTS\Toronto\CT2694.03 2660-2680 Brock Rd. Pickering\MXD\Phase II\ESACT2694.03 FIG10C_SOIL_RESULTS_PAHS.mxd

TABLES

TABLE 1A
Monitoring Well Construction Details
2660-2680 Brock Road, Pickering, Ontario

Position and Depth

Well Desig. (m)	UTM Easting (m)	UTM Northing (m)	Date of Construct	Stick Up (m)	Depth of Borehole (m bg)	Depth to Well Bottom (m bg)	Screen Length (m)	Depth to Screen Bottom (m bg)	Depth to Screen Top (m bg)	Depth to Top Sand (m bg)
MW1(S)	653520.3	4860199.1	07-May-18	1.09	4.70	4.70	1.52	4.60	3.08	2.48
MW1(D)	653521.2	4860200.3	04-May-18	0.85	14.00	9.10	1.52	9.00	7.48	7.18
MW3(S)	653602.0	4860236.9	07-May-18	0.95	3.10	3.10	1.52	3.00	1.48	1.18
MW3(D)	653604.0	4860238.0	03-May-18	1.01	14.00	7.40	1.52	7.30	5.78	5.48
MW4	653615.0	4860187.9	03-May-18	0.97	14.00	7.60	1.52	7.50	5.98	5.68
MW5	653532.0	4860108.0	01-May-18	0.93	9.30	9.00	1.52	8.90	7.38	7.08
MW8(D)	653546.0	4860063.0	02-May-18	0.93	15.40	11.00	1.52	10.90	9.38	8.38
MW8(S)	653542.1	4860076.3	12-Jun-19	1.02	4.27	3.96	1.52	3.86	2.34	9.86
MW10	653642.0	4860074.0	07-May-18	0.99	13.80	3.90	1.52	3.80	2.28	1.98
MW203	653584.5	4860130.0	05-Oct-21	0.95	6.70	6.10	3.05	6.00	2.95	2.65
MW206	653631.3	4860163.3	05-Oct-21	0.87	6.10	5.85	3.05	5.75	2.70	2.40

Key Elevations

Well Desig.	Ground Elev. (m asl)	End of Borehole Elev. (m asl)	Top of Pipe Elev. (m asl)	Screen Bottom Elev. (m asl)	Screen Top Elev. (m asl)
MW1(S)	132.03	127.33	133.12	127.43	128.95
MW1(D)	132.03	118.03	132.88	123.03	124.55
MW3(S)	130.34	127.24	131.29	127.34	128.86
MW3(D)	130.37	116.37	131.38	123.07	124.59
MW4	129.77	115.77	130.74	122.27	123.79
MW5	131.59	122.29	132.52	122.69	124.21
MW8(D)	131.64	116.24	132.57	120.74	122.26
MW8(S)	131.03	126.76	132.06	127.17	128.69
MW10	129.29	115.49	130.28	125.49	127.01
MW203	130.65	123.95	131.61	124.65	127.70
MW206	129.69	123.59	130.56	123.94	126.99

Notes:

1. m asl = metres above sea level
2. m bg = metres below ground (or grade)
3. UTM locations obtained from GPS survey, with 2 cm accuracy

TABLE 1B
Groundwater Levels
2660 to 2680 Brock Road, Pickering, ON

Well Desig.	Date	Ground Elev. (m asl)	Top Pipe Elev. (m asl)	Well Depth (m bg)	Groundwater Depth		Groundwater Elev. (m asl)	CV (ppm)
					(m bmp)	(m bg)		
MW1(S) <i>Shallow</i>	17-May-18	132.03	133.12	4.70	1.58	0.49	131.54	-
	23-May-18				1.76	0.67	131.36	-
	29-May-18				2.06	0.96	131.06	-
	23-Apr-19				1.29	0.19	131.84	-
	16-May-19				1.34	0.25	131.78	-
	19-Jun-19				1.83	0.73	131.30	-
	26-Jun-19				1.98	0.89	131.14	-
	02-Jul-19				2.19	1.10	130.93	-
	26-Apr-21				1.74	0.65	131.38	-
	13-Oct-21				1.94	0.84	131.18	<5
	18-Oct-21				2.15	1.06	130.97	<5
	27-Oct-21				1.80	0.70	131.33	<5
MW1(D) <i>Deep</i>	17-May-18	132.03	132.88	9.10	5.35	4.50	127.53	-
	23-May-18				5.19	4.34	127.69	-
	29-May-18				5.36	4.51	127.53	-
	23-Apr-19				4.95	4.10	127.94	-
	16-May-19				4.81	3.96	128.07	-
	19-Jun-19				5.07	4.22	127.82	-
	26-Jun-19				5.16	4.31	127.73	-
	02-Jul-19				5.23	4.38	127.65	-
	26-Apr-21				6.11	5.26	126.77	-
	13-Oct-21				6.13	5.28	126.75	<5
	18-Oct-21				6.11	5.26	126.78	480
	27-Oct-21				6.13	5.28	126.75	10% LEL
MW3(S) <i>Shallow</i>	17-May-18	130.34	131.29	3.10	2.15	1.20	129.15	-
	23-May-18				2.47	1.52	128.82	-
	29-May-18				2.72	1.77	128.57	-
	23-Apr-19				Not measured		-	-
	16-May-19				2.87	1.92	128.42	-
	19-Jun-19				2.73	1.78	128.56	-
	26-Jun-19				2.91	1.96	128.39	-
	02-Jul-19				3.02	2.07	128.27	-
	26-Apr-21				Dry	>3.10	<127.24	-
	13-Oct-21				Dry	>3.10	<127.24	<5
	18-Oct-21				Dry	>3.10	<127.24	<5
	27-Oct-21				Dry	>3.10	<127.24	<5

TABLE 1B
Groundwater Levels
2660 to 2680 Brock Road, Pickering, ON

Well Desig.	Date	Ground Elev. (m asl)	Top Pipe Elev. (m asl)	Well Depth (m bg)	Groundwater Depth		Groundwater Elev. (m asl)	CV (ppm)
					(m bmp)	(m bg)		
MW3(D) <i>Deep</i>	17-May-18	130.37	131.38	7.40	3.53	2.52	127.85	-
	23-May-18				3.64	2.63	127.74	-
	29-May-18				3.78	2.77	127.60	-
	23-Apr-19				Not measured			-
	16-May-19				3.24	2.23	128.14	-
	19-Jun-19				3.61	2.60	127.78	-
	26-Jun-19				3.69	2.68	127.70	-
	02-Jul-19				3.75	2.74	127.64	-
	26-Apr-21				4.02	3.01	127.36	-
	13-Oct-21				5.04	4.03	126.34	<5
	18-Oct-21				6.35	5.34	125.04	<5
27-Oct-21	5.02	4.01	126.36	<5				
MW4	17-May-18	129.77	130.74	7.60	3.29	2.32	127.45	-
	23-May-18				3.38	2.41	127.37	-
	29-May-18				3.51	2.54	127.23	-
	23-Apr-19				3.11	2.14	127.64	-
	16-May-19				3.04	2.07	127.71	-
	19-Jun-19				3.32	2.35	127.42	-
	26-Jun-19				3.41	2.44	127.34	-
	02-Jul-19				3.48	2.51	127.27	-
	26-Apr-21				4.34	3.37	126.40	-
	13-Oct-21				4.52	3.55	126.22	<5
	18-Oct-21				5.85	4.88	124.90	<5
27-Oct-21	4.51	3.54	126.23	<5				
MW5	17-May-18	131.59	132.52	9.00	6.31	5.37	126.22	-
	23-May-18				6.45	5.52	126.07	-
	29-May-18				6.69	5.76	125.83	-
	23-Apr-19				6.05	5.11	126.48	-
	16-May-19				6.20	5.26	126.33	-
	19-Jun-19				6.43	5.50	126.09	-
	26-Jun-19				6.59	5.65	125.94	-
	02-Jul-19				6.70	5.76	125.83	-
	26-Apr-21				7.52	6.59	125.00	-
	13-Oct-21				7.42	6.48	125.11	<5
	18-Oct-21				8.90	7.97	123.62	<5
27-Oct-21	7.50	6.57	125.02	<5				
MW8(D) <i>Deep</i>	17-May-18	131.64	132.57	11.00	5.80	4.87	126.77	-
	23-May-18				5.94	5.01	126.63	-
	29-May-18				6.18	5.25	126.39	-
	23-Apr-19				5.58	4.64	127.00	-
	16-May-19				5.70	4.76	126.88	-
	19-Jun-19				5.93	5.00	126.64	-
	26-Jun-19				6.09	5.15	126.49	-
	02-Jul-19				6.20	5.26	126.38	-
	26-Apr-21				6.99	6.06	125.58	-
	13-Oct-21				6.93	5.99	125.65	<5
	18-Oct-21				8.31	7.37	124.27	<5
27-Oct-21	6.94	6.01	125.63	<5				
MW8(S) <i>Shallow</i>	19-Jun-19	131.03	132.06	3.96	4.39	3.36	127.67	-
	26-Jun-19				3.74	2.72	128.32	-
	02-Jul-19				3.41	2.39	128.65	-
	26-Apr-21				Dry	>3.96	<127.07	-
	27-Oct-21				2.51	1.49	129.55	<5

TABLE 1B
Groundwater Levels
2660 to 2680 Brock Road, Pickering, ON

Well Desig.	Date	Ground Elev. (m asl)	Top Pipe Elev. (m asl)	Well Depth (m bg)	Groundwater Depth		Groundwater Elev. (m asl)	CV (ppm)
					(m bmp)	(m bg)		
MW10	17-May-18	129.29	130.28	3.90	2.06	1.08	128.22	-
	23-May-18				2.25	1.26	128.03	-
	29-May-18				2.50	1.51	127.79	-
	23-Apr-19				1.40	0.41	128.89	-
	16-May-19				1.34	0.35	128.94	-
	19-Jun-19				1.84	0.85	128.44	-
	26-Jun-19				1.89	0.90	128.39	-
	02-Jul-19				2.00	1.01	128.28	-
	26-Apr-21				1.86	0.87	128.42	-
	13-Oct-21				Could not open well casing		-	
	18-Oct-21				Dry	>3.90	<125.49	<5
27-Oct-21	3.37	2.38	126.91	<5				
MW203	13-Oct-21	130.65	131.61	6.10	5.96	5.01	125.65	<5
	18-Oct-21				Dry >6.10		<125.51	<5
	27-Oct-21				5.98	5.03	125.63	<5
	25-Nov-21				5.84	4.89	125.77	<5
MW206	13-Oct-21	129.69	130.56	5.85	4.62	3.75	125.94	<5
	18-Oct-21				4.52	3.65	126.04	<5
	27-Oct-21				4.59	3.72	125.97	<5
	25-Nov-21				4.55	3.68	126.01	<5

Notes

1. Ground elevation interpolated between points on earlier site survey
2. Tops of pipe elevation based on stick up elevation in relation to ground elevation
3. m asl = metres above sea level
4. m bmp = metres below measurement point (Top of pipe)
5. m bg = metres below ground
6. >, < values are based on screen bottom depth and elevation

TABLE 2A SOIL ANALYTICAL RESULTS
2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH201-1	BH201-2B	BH202-1	BH202-6	MW203-2	BH2006 Field Duplicate of BH203-2	MW203-7
Sample Depth	m bg	-	0.0-0.61	1.05-1.37	0.0-0.61	3.81-4.42	0.76-1.37	0.76-1.37	4.57-5.18
Sampling Date	dd-mmm-yy	-	04-Oct-21	04-Oct-21	04-Oct-21	04-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488	2141488	2141488
pH	pH Units	NV	7.20	-	7.23	7.65	7.57	7.78	7.73
Antimony	ug/g	7.5	<1.0	-	<1.0	-	<1.0	<1.0	-
Arsenic	ug/g	18	5.2	-	2.4	-	1.5	<1.0	-
Barium	ug/g	390	50.3	-	46.2	-	41.7	11.8	-
Beryllium	ug/g	4.0	<0.5	-	<0.5	-	<0.5	<0.5	-
Boron (total)	ug/g	120	6.0	-	5.5	-	6.1	<5.0	-
Boron (Hot Water Soluble) ¹	-	1.5	<u>4.5</u>	<0.5	<0.5	-	1.0	1.3	-
Cadmium	ug/g	1.2	<0.5	-	<0.5	-	<0.5	<0.5	-
Chromium Total	ug/g	160	13.9	-	12.9	-	10.8	<5.0	-
Chromium VI	ug/g	8.0	<0.2	-	<0.2	-	<0.2	<0.2	-
Cobalt	ug/g	22	4.9	-	4.7	-	3.9	1.3	-
Copper	ug/g	140	11.0	-	10.0	-	7.7	<5.0	-
Cyanide (CN-)	ug/g	0.051	<0.03	-	<0.03	-	<0.03	<0.03	-
Lead	ug/g	120	9.0	-	8.8	-	2.8	1.5	-
Mercury	ug/g	0.27	<0.1	-	<0.1	-	<0.1	<0.1	-
Methyl Mercury ²	-	0.0084	-	-	-	-	-	-	-
Molybdenum	ug/g	6.9	<1.0	-	<1.0	-	<1.0	<1.0	-
Nickel	ug/g	100	9.8	-	9.7	-	7.3	<5.0	-
Selenium	ug/g	2.4	<1.0	-	<1.0	-	<1.0	<1.0	-
Silver	ug/g	20	<0.3	-	<0.3	-	<0.3	<0.3	-
Thallium	ug/g	1.0	<1.0	-	<1.0	-	<1.0	<1.0	-
Uranium	ug/g	23	<1.0	-	<1.0	-	<1.0	<1.0	-
Vanadium	ug/g	86	26.4	-	24.7	-	20.4	<10.0	-
Zinc	ug/g	340	42.4	-	36.8	-	<20.0	<20.0	-
Electrical Conductivity	uS/cm	0.7	0.156	-	0.197	-	0.132	0.086	-
Sodium Adsorption Ratio	-	5.0	0.26	-	0.21	-	0.42	0.12	-

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/ParKland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed
- m bg meters below grade
- Sample discounted
- Exceeds standard
- Detection limit exceeds standard
- Hot water soluble boron applies to surface soils (<1.5 m bg).
- Analysis for methyl mercury only applies when mercury standard is exceeded.

¹ Value
² Value

TABLE 2A SOIL ANALYTICAL RESULTS

Metals and Inorganics

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	MW206-1B	HA101-1	HA102-1	HA102-2	HA201-1	HA202-1	HA203-1
Sample Depth	m bg	-	0.30-0.61	0.5	0.5	0.7	0.5	0.5	0.5
Sampling Date	dd-mmm-yy	-	05-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	2-Nov-21	2-Nov-21	2-Nov-21
Certificate of Analysis No.	-	-	2141488	2143465	2143465	2143465	2144624	2144624	2144624
pH	pH Units	NV	7.38	7.38	7.66	-	-	-	-
Antimony	ug/g	7.5	<1.0	<1.0	<1.0	<1.0	-	-	-
Arsenic	ug/g	18	2.2	2.2	2.6	3.7	-	-	-
Barium	ug/g	390	48.8	54.3	34.1	43.6	-	-	-
Beryllium	ug/g	4.0	<0.5	<0.5	<0.5	<0.5	-	-	-
Boron (total)	ug/g	120	5.2	5.3	5.6	8.0	-	-	-
Boron (Hot Water Soluble) ¹	-	1.5	<0.5	1.2	0.7	-	1.1	1.5	1.2
Cadmium	ug/g	1.2	<0.5	<0.5	<0.5	0.7	-	-	-
Chromium Total	ug/g	160	12.8	11.7	13.3	19.3	-	-	-
Chromium VI	ug/g	8.0	<0.2	<0.2	<0.2	-	-	-	-
Cobalt	ug/g	22	4.3	4.0	3.5	5.4	-	-	-
Copper	ug/g	140	6.8	9.4	27.0	43.4	-	-	-
Cyanide (CN ⁻)	ug/g	0.051	<0.03	<0.03	<0.03	-	-	-	-
Lead	ug/g	120	8.2	9.8	29.4	44.4	-	-	-
Mercury	ug/g	0.27	<0.1	<0.1	<0.1	-	-	-	-
Methyl Mercury ²	-	0.0084	-	-	-	-	-	-	-
Molybdenum	ug/g	6.9	<1.0	<1.0	<1.0	1.2	-	-	-
Nickel	ug/g	100	7.9	9.3	150	190	-	-	-
Selenium	ug/g	2.4	<1.0	<1.0	<1.0	1.3	-	-	-
Silver	ug/g	20	<0.3	<0.3	0.3	0.6	-	-	-
Thallium	ug/g	1.0	<1.0	<1.0	<1.0	<1.0	-	-	-
Uranium	ug/g	23	<1.0	<1.0	<1.0	<1.0	-	-	-
Vanadium	ug/g	86	24.8	18.4	15.3	19.3	-	-	-
Zinc	ug/g	340	31.9	34.6	169	231	-	-	-
Electrical Conductivity	uS/cm	0.7	0.249	0.260	0.131	-	-	-	-
Sodium Adsorption Ratio	-	5.0	1.70	0.39	0.09	-	-	-	-

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/ParKland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Value Exceeds standard

Value Detection limit exceeds standard

¹ Hot water soluble boron applies to surface soils (<1.5 m bg).

² Analysis for methyl mercury only applies when mercury standard is exceeded.

TABLE 2A SOIL ANALYTICAL RESULTS
2660-2680 Brock Road, Pickering, ON

Metals and Inorganics

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA204-1	GS401-1	GS402-2	GS403-2	GS404-2	GS405-1	GS406-1
Sample Depth	m bg	-	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Sampling Date	dd-mmm-yy	-	27-Oct-21	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	2-Nov-21	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2144624	2206182	2206182	2206182	2206182	2206182	2206182
pH	pH Units	NV	-	-	-	-	-	-	-
Antimony	ug/g	7.5	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	ug/g	18	-	4.8	4.3	2.0	3.6	1.7	2.5
Barium	ug/g	390	-	55.4	61.7	38.6	50.7	54.8	55.4
Beryllium	ug/g	4.0	-	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
Boron (total)	ug/g	120	-	5.9	6.8	<5.0	7.0	<5.0	<5.0
Boron (Hot Water Soluble) ¹	-	1.5	1.2	-	-	-	-	-	-
Cadmium	ug/g	1.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium Total	ug/g	160	-	16.2	17.9	14.5	13.9	15.9	18.6
Chromium VI	ug/g	8.0	-	-	-	-	-	-	-
Cobalt	ug/g	22	-	5.9	7.1	4.2	4.8	5.6	6.6
Copper	ug/g	140	-	14.6	17.2	6.2	12.2	7.1	8.9
Cyanide (CN ⁻)	ug/g	0.051	-	-	-	-	-	-	-
Lead	ug/g	120	-	16.9	12.4	4.8	14.1	6.3	8.1
Mercury	ug/g	0.27	-	-	-	-	-	-	-
Methyl Mercury ²	-	0.0084	-	-	-	-	-	-	-
Molybdenum	ug/g	6.9	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	ug/g	100	-	12.4	13.9	8.0	9.8	8.2	11.0
Selenium	ug/g	2.4	-	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	ug/g	20	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	ug/g	1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	ug/g	23	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	ug/g	86	-	32.0	35.5	28.9	28.1	36.0	38.1
Zinc	ug/g	340	-	52.7	53.3	32.7	39.1	62.2	45.0
Electrical Conductivity	uS/cm	0.7	-	-	-	-	-	-	-
Sodium Adsorption Ratio	-	5.0	-	-	-	-	-	-	-

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/ParKland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Detection limit exceeds standard

Hot water soluble boron applies to surface soils (<1.5 m bg).

Analysis for methyl mercury only applies when mercury standard is exceeded.

TABLE 2A SOIL ANALYTICAL RESULTS
2660-2680 Brock Road, Pickering, ON

Metals and Inorganics

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	GS407-1	GS408-1	GS4000 Field Duplicate of GS408-1
Sample Depth	m bg	-	0.3	0.3	-
Sampling Date	dd-mmm-yy	-	28-Jan-22	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2206182	2206182	2206182
pH	pH Units	NV	-	-	-
Antimony	ug/g	7.5	<1.0	<1.0	<1.0
Arsenic	ug/g	18	2.4	3.3	3.0
Barium	ug/g	390	87.0	51.9	48.0
Beryllium	ug/g	4.0	<0.5	0.6	0.5
Boron (total)	ug/g	120	6.2	<5.0	<5.0
Boron (Hot Water Soluble) ¹	-	1.5	-	-	-
Cadmium	ug/g	1.2	<0.5	<0.5	<0.5
Chromium Total	ug/g	160	21.2	18.4	17.9
Chromium VI	ug/g	8.0	-	-	-
Cobalt	ug/g	22	6.3	7.6	7.3
Copper	ug/g	140	13.8	9.6	8.6
Cyanide (CN-)	ug/g	0.051	-	-	-
Lead	ug/g	120	5.4	8.7	8.0
Mercury	ug/g	0.27	-	-	-
Methyl Mercury ²	-	0.0084	-	-	-
Molybdenum	ug/g	6.9	<1.0	<1.0	<1.0
Nickel	ug/g	100	14.8	13.2	12.5
Selenium	ug/g	2.4	<1.0	<1.0	<1.0
Silver	ug/g	20	<0.3	<0.3	<0.3
Thallium	ug/g	1.0	<1.0	<1.0	<1.0
Uranium	ug/g	23	<1.0	<1.0	<1.0
Vanadium	ug/g	86	35.4	37.3	36.0
Zinc	ug/g	340	28.8	31.0	29.2
Electrical Conductivity	uS/cm	0.7	-	-	-
Sodium Adsorption Ratio	-	5.0	-	-	-

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/ParKland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Value Exceeds standard

Value Detection limit exceeds standard

¹ Hot water soluble boron applies to surface soils (<1.5 m bg).

² Analysis for methyl mercury only applies when mercury standard is exceeded.

TABLE 2B SOIL ANALYTICAL RESULTS PAHS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH201-1	BH202-1	BH202-6	MW203-1B	MW203-7
Sample Depth	m bg	-	0.0-0.61	0.0-0.61	3.81-4.42	0.30-0.61	4.57-5.18
Sampling Date	dd-mmm-yy	-	04-Oct-21	04-Oct-21	04-Oct-21	05-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488
Acenaphthene	ug/g	7.9	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g	0.67	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]anthracene	ug/g	0.50	<0.02	0.04	<0.02	<0.02	<0.02
Benzo[a]pyrene	ug/g	0.30	<0.02	0.04	<0.02	<0.02	<0.02
Benzo[b]fluoranthene	ug/g	0.78	<0.02	0.04	<0.02	<0.02	<0.02
Benzo[ghi]perylene	ug/g	6.6	<0.02	0.02	<0.02	<0.02	<0.02
Benzo[k]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	ug/g	7.0	<0.02	0.04	<0.02	<0.02	<0.02
Dibenz[a,h]anthracene	ug/g	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	ug/g	0.69	<0.02	0.08	<0.02	<0.02	<0.02
Fluorene	ug/g	62	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	<0.02	0.03	<0.02	<0.02	<0.02
Methylnaphthalene, 2-(1-)	ug/g	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g	6.2	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	ug/g	78	<0.02	0.06	<0.02	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Value Exceeds standard

Value Detection limit exceeds standard

1 the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2B SOIL ANALYTICAL RESULTS PAHs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	MW2002 Field Duplicate of MW203-7	MW206-1B	MW206-4	HA101-1	HA102-1
Sample Depth	m bg	-	4.57-5.18	0.30-0.61	2.30 - 2.90	0.5	0.5
Sampling Date	dd-mmm-yy	-	05-Oct-21	05-Oct-21	05-Oct-21	18-Oct-21	18-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2148186	2143465	2143465
Acenaphthene	ug/g	7.9	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g	0.67	<0.02	<0.02	<0.02	<0.02	0.08
Benzo[a]anthracene	ug/g	0.50	<0.02	<0.02	<0.02	<0.02	0.34
Benzo[a]pyrene	ug/g	0.30	<0.02	<0.02	<0.02	<0.02	0.45
Benzo[b]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	0.31
Benzo[ghi]perylene	ug/g	6.6	<0.02	<0.02	<0.02	<0.02	0.54
Benzo[k]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	0.16
Chrysene	ug/g	7.0	<0.02	<0.02	<0.02	<0.02	0.31
Dibenz[a,h]anthracene	ug/g	0.10	<0.02	<0.02	<0.02	<0.02	0.35
Fluoranthene	ug/g	0.69	<0.02	<0.02	<0.02	<0.02	0.79
Fluorene	ug/g	62	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	<0.02	<0.02	<0.02	<0.02	0.66
Methylnaphthalene, 2-(1-) ¹	ug/g	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g	6.2	<0.02	<0.02	<0.02	<0.02	0.26
Pyrene	ug/g	78	<0.02	<0.02	<0.02	<0.02	0.48

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Value Exceeds standard

Value Detection limit exceeds standard

¹ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2B SOIL ANALYTICAL RESULTS PAHs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA102-2	HA302-D	HA333 Field Duplicate of HA302-D	GS401-1	GS402-2
Sample Depth	m bg	-	0.7	1.7	0.5	0.3	0.3
Sampling Date	dd-mmm-yy	-	18-Oct-21	25-Nov-21	25-Nov-21	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	27-Oct-21	3-Dec-21	3-Dec-21	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2143465	2149002	2149004	2206182	2206182
Acenaphthene	ug/g	7.9	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g	0.67	0.07	<0.02	<0.02	<0.02	<0.02
Benzo[a]anthracene	ug/g	0.50	0.34	<0.02	<0.02	<0.02	<0.02
Benzo[a]pyrene	ug/g	0.30	<u>0.38</u>	<0.02	<0.02	<0.02	<0.02
Benzo[b]fluoranthene	ug/g	0.78	0.33	<0.02	<0.02	<0.02	<0.02
Benzo[ghi]perylene	ug/g	6.6	0.21	<0.02	<0.02	<0.02	<0.02
Benzo[k]fluoranthene	ug/g	0.78	0.17	<0.02	<0.02	<0.02	<0.02
Chrysene	ug/g	7.0	0.33	<0.02	<0.02	<0.02	<0.02
Dibenz[a,h]anthracene	ug/g	0.10	0.05	<0.02	<0.02	<0.02	<0.02
Fluoranthene	ug/g	0.69	<u>0.88</u>	<0.02	<0.02	<0.02	<0.02
Fluorene	ug/g	62	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	0.23	<0.02	<0.02	<0.02	<0.02
Methylnaphthalene, 2-(1-)	ug/g	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g	6.2	0.32	<0.02	<0.02	<0.02	<0.02
Pyrene	ug/g	78	0.54	<0.02	<0.02	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Value Exceeds standard

Value Detection limit exceeds standard

1 the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2B SOIL ANALYTICAL RESULTS PAHs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	GS403-2	GS404-2	GS405-1	GS406-1	GS407-1
Sample Depth	m	-	0.3	0.3	0.3	0.3	0.3
Sampling Date	dd-mm-yy	-	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mm-yy	-	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2206182	2206182	2206182	2206182	2206182
Acenaphthene	ug/g	7.9	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g	0.67	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]anthracene	ug/g	0.50	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]pyrene	ug/g	0.30	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[b]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[ghi]perylene	ug/g	6.6	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[k]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	ug/g	7.0	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenz[a,h]anthracene	ug/g	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	ug/g	0.69	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	ug/g	62	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	<0.02	<0.02	<0.02	<0.02	<0.02
Methylnaphthalene, 2-(1-) ¹	ug/g	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g	6.2	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	ug/g	78	<0.02	<0.02	<0.02	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Value Exceeds standard

Value Detection limit exceeds standard

1 the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2B SOIL ANALYTICAL RESULTS PAHs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	GS408-1	GS4000 Field Duplicate of GS408-1
Sample Depth	m	-	0.3	-
Sampling Date	dd-mmm-yy	-	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2206182	2206182
Acenaphthene	ug/g	7.9	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02
Anthracene	ug/g	0.67	<0.02	<0.02
Benz[a]anthracene	ug/g	0.50	<0.02	<0.02
Benzo[a]pyrene	ug/g	0.30	<0.02	<0.02
Benzo[b]fluoranthene	ug/g	0.78	<0.02	<0.02
Benzo[ghi]perylene	ug/g	6.6	<0.02	<0.02
Benzo[k]fluoranthene	ug/g	0.78	<0.02	<0.02
Chrysene	ug/g	7.0	<0.02	<0.02
Dibenz[a,h]anthracene	ug/g	0.10	<0.02	<0.02
Fluoranthene	ug/g	0.69	<0.02	<0.02
Fluorene	ug/g	62	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	<0.02	<0.02
Methylnaphthalene, 2-(1-)	ug/g	0.99	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01
Phenanthrene	ug/g	6.2	<0.02	<0.02
Pyrene	ug/g	78	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Value Exceeds standard

Value Detection limit exceeds standard

1 the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 3C SOIL ANALYTICAL RESULTS BTEX and PHCs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH201-1	BH202-3A	BH202-6	BH2001 Field Duplicate of BH202-6	MW203-4
Sample Depth	m	-	0.0-0.61	1.55-1.85	3.81-4.42	3.81-4.42	2.29-2.90
Sampling Date	dd-mmm-yy	-	04-Oct-21	04-Oct-21	04-Oct-21	04-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488
Benzene	ug/g	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	2.3	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.1	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	<0.05	<0.05	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	ug/g	55	<7	<7	<7	<7	<7
Petroleum Hydrocarbons F2	ug/g	98	<4	<4	<4	<4	<4
Petroleum Hydrocarbons F3	ug/g	300	26	<8	<8	<8	<8
Petroleum Hydrocarbons F4	ug/g	2,800	<6	<6	<6	<6	<6

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Value Detection limit exceeds standard

Value F1 fraction does not include BTEX.

1

TABLE 3C SOIL ANALYTICAL RESULTS BTEX and PHCs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	MW203-7	MW2002 Field Duplicate of MW203-7	BH204-1	BH205-1	MW206-1A
Sample Depth	m	-	4.57-5.18	4.57-5.18	0.0-0.61	0.0-0.61	0.00-0.30
Sampling Date	dd-mmm-yy	-	05-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488
Benzene	ug/g	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	2.3	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.1	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	<0.05	<0.05	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	ug/g	55	<7	<7	<7	<7	<7
Petroleum Hydrocarbons F2	ug/g	98	<4	<4	<4	<4	<4
Petroleum Hydrocarbons F3	ug/g	300	<8	<8	<8	30	50
Petroleum Hydrocarbons F4	ug/g	2,800	<6	<6	<6	<6	157

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Value Detection limit exceeds standard

Value F1 fraction does not include BTEX.

1

TABLE 3C SOIL ANALYTICAL RESULTS BTEX and PHCs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA301-A	HA302-D	HA333 Field Duplicate of HA302-D	HA303-A	HA304-A
Sample Depth	m	-	0.5	1.7	0.5	0.5	0.5
Sampling Date	dd-mmm-yy	-	25-Nov-21	25-Nov-21	25-Nov-21	25-Nov-21	25-Nov-21
Analysis Date (on or before)	dd-mmm-yy	-	3-Dec-21	3-Dec-21	3-Dec-21	3-Dec-21	3-Dec-21
Certificate of Analysis No.	-	-	2149002	2149002	2149004	2149002	2149002
Benzene	ug/g	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	2.3	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.1	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	<0.05	<0.05	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	ug/g	55	<7	<7	<7	<7	<7
Petroleum Hydrocarbons F2	ug/g	98	<4	<4	-	<4	<4
Petroleum Hydrocarbons F3	ug/g	300	<8	<8	-	<8	48
Petroleum Hydrocarbons F4	ug/g	2,800	<6	<6	-	<6	<6

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Value Detection limit exceeds standard

Value F1 fraction does not include BTEX.

1

TABLE 3C SOIL ANALYTICAL RESULTS BTEX and PHCs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA305-A	Field Blank (Methanol Blank)	Trip Blank (Methanol Blank)
Sample Depth	m bg	-	0.5	-	-
Sampling Date	dd-mmm-yy	-	25-Nov-21	05-Oct-21	24-Nov-21
Analysis Date (on or before)	dd-mmm-yy	-	3-Dec-21	14-Oct-21	3-Dec-21
Certificate of Analysis No.	-	-	2149002	2141488	2149004
Benzene	ug/g	0.21	<0.02	<0.02	<0.02
Toluene	ug/g	2.3	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.1	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	ug/g	55	<7	<7	<7
Petroleum Hydrocarbons F2	ug/g	98	<4	-	-
Petroleum Hydrocarbons F3	ug/g	300	<8	-	-
Petroleum Hydrocarbons F4	ug/g	2,800	<6	-	-

Standards from *Soil, Ground Water* and *Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Value Detection limit exceeds standard

Value F1 fraction does not include BTEX.

1

TABLE 2D SOIL ANALYTICAL RESULTS VOCs (excluding BTEX)
2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH201-1	BH202-6	BH2001 Field Duplicate of BH202-6
Sample Depth	m bg	-	0.0-0.61	3.81-4.42	3.81-4.42
Sampling Date	dd-mmm-yy	-	04-Oct-21	04-Oct-21	04-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488
Acetone	ug/g	16	<0.50	<0.50	<0.50
Bromodichloromethane	ug/g	1.5	<0.05	<0.05	<0.05
Bromoform	ug/g	0.27	<0.05	<0.05	<0.05
Bromomethane	ug/g	0.050	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.050	<0.05	<0.05	<0.05
Chlorobenzene	ug/g	2.4	<0.05	<0.05	<0.05
Chloroform	ug/g	0.050	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.3	<0.05	<0.05	<0.05
Dichlorobenzene, 1,2-	ug/g	1.2	<0.05	<0.05	<0.05
Dichlorobenzene, 1,3-	ug/g	4.8	<0.05	<0.05	<0.05
Dichlorobenzene, 1,4-	ug/g	0.083	<0.05	<0.05	<0.05
Dichlorodifluoromethane	ug/g	16	<0.05	<0.05	<0.05
Dichloroethane, 1,1-	ug/g	0.47	<0.05	<0.05	<0.05
Dichloroethane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloroethylene, 1,1-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-cis-	ug/g	1.9	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-trans-	ug/g	0.084	<0.05	<0.05	<0.05
Dichloropropane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloropropene, 1,3-	ug/g	0.050	<0.05	<0.05	<0.05
Ethylene dibromide	ug/g	0.050	<0.05	<0.05	<0.05
Hexane (n)	ug/g	2.8	<0.05	<0.05	<0.05
Methyl Ethyl Ketone	ug/g	16	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	ug/g	0.75	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.10	<0.05	<0.05	<0.05
Styrene	ug/g	0.70	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	ug/g	0.058	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.05	<0.05	<0.05
Tetrachloroethylene	ug/g	0.28	<0.05	<0.05	<0.05
Trichloroethane, 1,1,1-	ug/g	0.38	<0.05	<0.05	<0.05
Trichloroethane, 1,1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Trichloroethylene	ug/g	0.061	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4.0	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.020	<0.02	<0.02	<0.02

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)
 Table 2: Full Depth Generic SCS in a Potable Ground Water Condition
 Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed
- m bg meters below grade
- Sample discounted
- Value** Exceeds standard
- Value Detection limit exceeds standard

TABLE 2D SOIL ANALYTICAL RESULTS VOCs (excluding BTEX)
2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	MW203-7	MW2002 Field Duplicate of MW203-7	BH204-1
Sample Depth	m bg	-	4.57-5.18	4.57-5.18	0.0-0.61
Sampling Date	dd-mmm-yy	-	05-Oct-21	05-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488
Acetone	ug/g	16	<0.50	<0.50	<0.50
Bromodichloromethane	ug/g	1.5	<0.05	<0.05	<0.05
Bromoform	ug/g	0.27	<0.05	<0.05	<0.05
Bromomethane	ug/g	0.050	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.050	<0.05	<0.05	<0.05
Chlorobenzene	ug/g	2.4	<0.05	<0.05	<0.05
Chloroform	ug/g	0.050	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.3	<0.05	<0.05	<0.05
Dichlorobenzene, 1,2-	ug/g	1.2	<0.05	<0.05	<0.05
Dichlorobenzene, 1,3-	ug/g	4.8	<0.05	<0.05	<0.05
Dichlorobenzene, 1,4-	ug/g	0.083	<0.05	<0.05	<0.05
Dichlorodifluoromethane	ug/g	16	<0.05	<0.05	<0.05
Dichloroethane, 1,1-	ug/g	0.47	<0.05	<0.05	<0.05
Dichloroethane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloroethylene, 1,1-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-cis-	ug/g	1.9	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-trans-	ug/g	0.084	<0.05	<0.05	<0.05
Dichloropropane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloropropene, 1,3-	ug/g	0.050	<0.05	<0.05	<0.05
Ethylene dibromide	ug/g	0.050	<0.05	<0.05	<0.05
Hexane (n)	ug/g	2.8	<0.05	<0.05	<0.05
Methyl Ethyl Ketone	ug/g	16	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	ug/g	0.75	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.10	<0.05	<0.05	<0.05
Styrene	ug/g	0.70	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	ug/g	0.058	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.05	<0.05	<0.05
Tetrachloroethylene	ug/g	0.28	<0.05	<0.05	<0.05
Trichloroethane, 1,1,1-	ug/g	0.38	<0.05	<0.05	<0.05
Trichloroethane, 1,1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Trichloroethylene	ug/g	0.061	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4.0	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.020	<0.02	<0.02	<0.02

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)
 Table 2: Full Depth Generic SCS in a Potable Ground Water Condition
 Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed
- m bg meters below grade
- Sample discounted
- Value** Exceeds standard
- Value Detection limit exceeds standard

TABLE 2D SOIL ANALYTICAL RESULTS VOCs (excluding BTEX)
2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH205-1	MW206-1A	HA301-A
Sample Depth	m bg	-	0.0-0.61	0.00-0.30	0.5
Sampling Date	dd-mmm-yy	-	05-Oct-21	05-Oct-21	25-Nov-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	3-Dec-21
Certificate of Analysis No.	-	-	2141488	2141488	2149002
Acetone	ug/g	16	<0.50	<0.50	<0.50
Bromodichloromethane	ug/g	1.5	<0.05	<0.05	<0.05
Bromoform	ug/g	0.27	<0.05	<0.05	<0.05
Bromomethane	ug/g	0.050	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.050	<0.05	<0.05	<0.05
Chlorobenzene	ug/g	2.4	<0.05	<0.05	<0.05
Chloroform	ug/g	0.050	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.3	<0.05	<0.05	<0.05
Dichlorobenzene, 1,2-	ug/g	1.2	<0.05	<0.05	<0.05
Dichlorobenzene, 1,3-	ug/g	4.8	<0.05	<0.05	<0.05
Dichlorobenzene, 1,4-	ug/g	0.083	<0.05	<0.05	<0.05
Dichlorodifluoromethane	ug/g	16	<0.05	<0.05	<0.05
Dichloroethane, 1,1-	ug/g	0.47	<0.05	<0.05	<0.05
Dichloroethane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloroethylene, 1,1-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-cis-	ug/g	1.9	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-trans-	ug/g	0.084	<0.05	<0.05	<0.05
Dichloropropane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloropropene, 1,3-	ug/g	0.050	<0.05	<0.05	<0.05
Ethylene dibromide	ug/g	0.050	<0.05	<0.05	<0.05
Hexane (n)	ug/g	2.8	<0.05	<0.05	<0.05
Methyl Ethyl Ketone	ug/g	16	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	ug/g	0.75	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.10	<0.05	<0.05	<0.05
Styrene	ug/g	0.70	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	ug/g	0.058	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.05	<0.05	<0.05
Tetrachloroethylene	ug/g	0.28	<0.05	<0.05	<0.05
Trichloroethane, 1,1,1-	ug/g	0.38	<0.05	<0.05	<0.05
Trichloroethane, 1,1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Trichloroethylene	ug/g	0.061	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4.0	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.020	<0.02	<0.02	<0.02

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)
 Table 2: Full Depth Generic SCS in a Potable Ground Water Condition
 Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed
- m bg meters below grade
- Sample discounted
- Value** Exceeds standard
- Value Detection limit exceeds standard

TABLE 2D SOIL ANALYTICAL RESULTS VOCs (excluding BTEX)
2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA303-A	HA304-A	HA305-A
Sample Depth	m bg	-	0.5	0.5	0.5
Sampling Date	dd-mmm-yy	-	25-Nov-21	25-Nov-21	25-Nov-21
Analysis Date (on or before)	dd-mmm-yy	-	3-Dec-21	3-Dec-21	3-Dec-21
Certificate of Analysis No.	-	-	2149002	2149002	2149002
Acetone	ug/g	16	<0.50	<0.50	<0.50
Bromodichloromethane	ug/g	1.5	<0.05	<0.05	<0.05
Bromoform	ug/g	0.27	<0.05	<0.05	<0.05
Bromomethane	ug/g	0.050	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.050	<0.05	<0.05	<0.05
Chlorobenzene	ug/g	2.4	<0.05	<0.05	<0.05
Chloroform	ug/g	0.050	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.3	<0.05	<0.05	<0.05
Dichlorobenzene, 1,2-	ug/g	1.2	<0.05	<0.05	<0.05
Dichlorobenzene, 1,3-	ug/g	4.8	<0.05	<0.05	<0.05
Dichlorobenzene, 1,4-	ug/g	0.083	<0.05	<0.05	<0.05
Dichlorodifluoromethane	ug/g	16	<0.05	<0.05	<0.05
Dichloroethane, 1,1-	ug/g	0.47	<0.05	<0.05	<0.05
Dichloroethane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloroethylene, 1,1-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-cis-	ug/g	1.9	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-trans-	ug/g	0.084	<0.05	<0.05	<0.05
Dichloropropane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Dichloropropene, 1,3-	ug/g	0.050	<0.05	<0.05	<0.05
Ethylene dibromide	ug/g	0.050	<0.05	<0.05	<0.05
Hexane (n)	ug/g	2.8	<0.05	<0.05	<0.05
Methyl Ethyl Ketone	ug/g	16	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	ug/g	0.75	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.10	<0.05	<0.05	<0.05
Styrene	ug/g	0.70	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	ug/g	0.058	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.05	<0.05	<0.05
Tetrachloroethylene	ug/g	0.28	<0.05	<0.05	<0.05
Trichloroethane, 1,1,1-	ug/g	0.38	<0.05	<0.05	<0.05
Trichloroethane, 1,1,2-	ug/g	0.050	<0.05	<0.05	<0.05
Trichloroethylene	ug/g	0.061	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4.0	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.020	<0.02	<0.02	<0.02

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)
 Table 2: Full Depth Generic SCS in a Potable Ground Water Condition
 Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed
- m bg meters below grade
- Sample discounted
- Value** Exceeds standard
- Value Detection limit exceeds standard

TABLE 2D SOIL ANALYTICAL RESULTS VOCs (excluding BTEX)
2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	Field Blank (Methanol Blank)	Trip Blank (Methanol Blank)
Sample Depth	m bg	-	-	-
Sampling Date	dd-mmm-yy	-	05-Oct-21	24-Nov-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	3-Dec-21
Certificate of Analysis No.	-	-	2141488	2149004
Acetone	ug/g	16	<0.50	<0.50
Bromodichloromethane	ug/g	1.5	<0.05	<0.05
Bromoform	ug/g	0.27	<0.05	<0.05
Bromomethane	ug/g	0.050	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.050	<0.05	<0.05
Chlorobenzene	ug/g	2.4	<0.05	<0.05
Chloroform	ug/g	0.050	<0.05	<0.05
Dibromochloromethane	ug/g	2.3	<0.05	<0.05
Dichlorobenzene, 1,2-	ug/g	1.2	<0.05	<0.05
Dichlorobenzene, 1,3-	ug/g	4.8	<0.05	<0.05
Dichlorobenzene, 1,4-	ug/g	0.083	<0.05	<0.05
Dichlorodifluoromethane	ug/g	16	<0.05	<0.05
Dichloroethane, 1,1-	ug/g	0.47	<0.05	<0.05
Dichloroethane, 1,2-	ug/g	0.050	<0.05	<0.05
Dichloroethylene, 1,1-	ug/g	0.050	<0.05	<0.05
Dichloroethylene, 1,2-cis-	ug/g	1.9	<0.05	<0.05
Dichloroethylene, 1,2-trans-	ug/g	0.084	<0.05	<0.05
Dichloropropane, 1,2-	ug/g	0.050	<0.05	<0.05
Dichloropropene, 1,3-	ug/g	0.050	<0.05	<0.05
Ethylene dibromide	ug/g	0.050	<0.05	<0.05
Hexane (n)	ug/g	2.8	<0.05	<0.05
Methyl Ethyl Ketone	ug/g	16	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	ug/g	0.75	<0.05	<0.05
Methylene Chloride	ug/g	0.10	<0.05	<0.05
Styrene	ug/g	0.70	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	ug/g	0.058	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.05	<0.05
Tetrachloroethylene	ug/g	0.28	<0.05	<0.05
Trichloroethane, 1,1,1-	ug/g	0.38	<0.05	<0.05
Trichloroethane, 1,1,2-	ug/g	0.050	<0.05	<0.05
Trichloroethylene	ug/g	0.061	<0.05	<0.05
Trichlorofluoromethane	ug/g	4.0	<0.05	<0.05
Vinyl Chloride	ug/g	0.020	<0.02	<0.02

Standards from *Soil, Ground Water* and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)
 Table 2: Full Depth Generic SCS in a Potable Ground Water Condition
 Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed
- m bg meters below grade
- Sample discounted
- Value** Exceeds standard
- Value Detection limit exceeds standard

TABLE 3A GROUNDWATER ANALYTICAL RESULTS

2660-2680 Broack Road, Pickering, ON

Metals and Inorganics

Sample Name	Units	STANDARDS Table 2 coarse	MW1S	MW3D	MW203	MW2800 Field Duplicate of MW203	MW206	MW9206 Field Duplicate of MW206
Screen Depth	m bg	-	3.08-4.60	5.78-7.30	2.95-6.00	2.95-6.00	2.70-5.75	2.70-5.75
Sampling Date	dd-mmm-yy	-	18-Oct-21	18-Oct-21	25-Nov-21	25-Nov-21	18-Oct-21	18-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	21-Oct-21	21-Oct-21	3-Dec-21	3-Dec-21	21-Oct-21	21-Oct-21
Certificate of Analysis No.	-	-	2143092	2143092	2149003	2149003	2143092	2143092
pH	pH Units	NV	7.7	7.2	7.4	-	7.5	7.4
Antimony	ug/L	6.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	ug/L	25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	1,000	39.2	142	103	102	67.9	66.3
Beryllium	ug/L	4.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron (total)	ug/L	5,000	49.4	25.8	95.0	90.5	13.6	15.1
Cadmium	ug/L	2.7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium Total	ug/L	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium VI	ug/L	25	<10	<10	<10	-	<10	<10
Cobalt	ug/L	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Copper	ug/L	87	0.6	0.7	0.9	0.7	<0.5	<0.5
Cyanide (CN-)	ug/L	66	<2	<2	<2	-	<2	<2
Lead	ug/L	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	ug/L	0.29	<0.1	<0.1	<0.1	-	<0.1	<0.1
Molybdenum	ug/L	70	5.1	1.8	13.4	12.9	0.9	1.0
Nickel	ug/L	100	<1.0	<1.0	1.7	1.6	<1.0	<1.0
Selenium	ug/L	10	2.4	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	ug/L	1.5	<0.2	<0.2	<0.2	<0.2	0.3	<0.2
Thallium	ug/L	2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	ug/L	20	5.5	1.1	3.1	2.8	1.3	1.7
Vanadium	ug/L	6.2	1.3	<0.5	0.9	0.8	0.5	0.5
Zinc	ug/L	1,100	5.1	<5.0	5.5	8.4	<5.0	<5.0
Chloride	mg/L	790,000	4,300	726,000	57,300	-	148,000	152,000
Sodium	ug/L	490,000	23300	384,000	18400	18200	80100	79300

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

All Types of Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Detection limit exceeds standard

Hot water soluble boron applies to surface soils (<1.5 m bg).

TABLE 3B GROUNDWATER ANALYTICAL RESULTS PAHs
2660-2680 Broack Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 coarse	MW10	MW203	MW203	MW203	MW203	MW1999 Field Duplicate of MW203	MW203
Screen Depth	m bg	-	2.45-3.95	2.95-6.00	2.95-6.00	2.95-6.00	2.95-6.00	2.95-6.00	2.95-6.00
Sampling Date	dd-mmm-yy	-	27-Oct-21	25-Nov-21	14-Dec-21	14-Dec-21	14-Dec-21	14-Dec-21	14-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	4-Nov-21	3-Dec-21	22-Dec-21	22-Dec-21	22-Dec-21	22-Dec-21	19-Jan-22
Certificate of Analysis No.	-	-	2144619	2149003	21T845241	21T845241	21T845241	21T845241	22T853695
Acenaphthene	ug/L	4.1	<0.05	0.81	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	ug/L	1.0	<0.05	<0.05	<0.20	<0.20	<0.20	<0.20	<0.20
Anthracene	ug/L	2.4	<0.01	0.24	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]anthracene	ug/L	1.0	<0.01	<0.01	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	ug/L	0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[b]fluoranthene	ug/L	0.10	<0.05	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	ug/L	0.20	<0.05	<0.05	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[k]fluoranthene	ug/L	0.10	<0.05	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	ug/L	0.10	<0.05	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenz[a,h]anthracene	ug/L	0.20	<0.05	<0.05	<0.20	<0.20	<0.20	<0.20	<0.20
Fluoranthene	ug/L	0.41	<0.01	0.57	<0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	ug/L	120	<0.05	0.69	<0.20	<0.20	<0.20	<0.20	<0.20
Indeno[1,2,3-cd]pyrene	ug/L	0.20	<0.05	<0.05	<0.20	<0.20	<0.20	<0.20	<0.20
Methylnaphthalene, 2-(1-)	ug/L	3.2	<0.10	0.37	<0.20	<0.20	<0.20	<0.20	<0.20
Naphthalene	ug/L	11	<0.05	1.22	<0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	ug/L	1.0	<0.05	1.69	<0.20	<0.20	<0.20	<0.20	<0.20
Pyrene	ug/L	4.1	<0.01	0.41	<0.10	<0.10	<0.10	<0.10	<0.20

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

All Types of Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Detection limit exceeds standard

the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 3B GROUNDWATER ANALYTICAL RESULTS
2660-2680 Broack Road, Pickering, ON

PAHs

Sample Name	Units	STANDARDS Table 2 coarse	MW2000 Field Duplicate of MW203	MW206	MW9206 Field Duplicate of MW206
Screen Depth	m	-	2.95-6.00	2.70-5.75	2.70-5.75
Sampling Date	dd-mm-yy	-	14-Jan-22	18-Oct-21	18-Oct-21
Analysis Date (on or before)	dd-mm-yy	-	19-Jan-22	21-Oct-21	21-Oct-21
Certificate of Analysis No.	-	-	22T853695	2143092	2143092
Acenaphthene	ug/L	4.1	<0.20	<0.05	<0.05
Acenaphthylene	ug/L	1.0	<0.20	<0.05	<0.05
Anthracene	ug/L	2.4	<0.20	<0.01	<0.01
Benzo[a]anthracene	ug/L	1.0	<0.20	<0.01	<0.01
Benzo[a]pyrene	ug/L	0.010	<0.01	<0.01	<0.01
Benzo[b]fluoranthene	ug/L	0.10	<0.10	<0.05	<0.05
Benzo[ghi]perylene	ug/L	0.20	<0.20	<0.05	<0.05
Benzo[k]fluoranthene	ug/L	0.10	<0.10	<0.05	<0.05
Chrysene	ug/L	0.10	<0.10	<0.05	<0.05
Dibenz[a,h]anthracene	ug/L	0.20	<0.20	<0.05	<0.05
Fluoranthene	ug/L	0.41	<0.20	<0.01	<0.01
Fluorene	ug/L	120	<0.20	<0.05	<0.05
Indeno[1,2,3-cd]pyrene	ug/L	0.20	<0.20	<0.05	<0.05
Methylnaphthalene, 2-(1-) ¹	ug/L	3.2	<0.20	0.22	<0.10
Naphthalene	ug/L	11	<0.20	0.12	<0.05
Phenanthrene	ug/L	1.0	<0.10	<0.05	<0.05
Pyrene	ug/L	4.1	<0.20	<0.01	<0.01

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

All Types of Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Detection limit exceeds standard

the sum of 1-methylnaphthalene and 2- methylnaphthalene.

Value

Value

1

TABLE 3C GROUNDWATER ANALYTICAL RESULTS BTEX and PHCs

2660-2680 Broack Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 coarse	MW1S	MW3D	MW93D Field Duplicate of MW3D	MW10	MW203
Screen Depth	m	-	3.08-4.60	5.78-7.30	5.78-7.30	2.45-3.95	3.05-6.10
Sampling Date	dd-mmm-yy	-	18-Oct-21	18-Oct-21	18-Oct-21	27-Oct-21	27-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	21-Oct-21	21-Oct-21	21-Oct-21	4-Nov-21	4-Nov-21
Certificate of Analysis No.	-	-	2143092	2143092	2143092	2144619	2144619
Benzene	ug/L	5.0	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	ug/L	24	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	2.4	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene Mixture	ug/L	300	<0.5	<0.5	<0.5	<0.5	<0.5
Petroleum Hydrocarbons F1 ¹	ug/L	750	<25	<25	<25	<25	<25
Petroleum Hydrocarbons F2	ug/L	150	<100	<100	<100	<100	<100
Petroleum Hydrocarbons F3	ug/L	500	<100	<100	<100	<100	<100
Petroleum Hydrocarbons F4	ug/L	500	<100	<100	<100	<100	<100

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

All Types of Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Detection limit exceeds standard

F1 fraction does not include BTEX.

TABLE 3C GROUNDWATER ANALYTICAL RESULTS BTEX and PHCs

2660-2680 Broack Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 coarse	MW206	MW206	MW9206 Field Duplicate of MW206	MW206	MW1888 Field Duplicate of MW206
Screen Depth	m	-	2.70-5.75	2.70-5.75	2.70-5.75	2.70-5.75	2.70-5.75
Sampling Date	dd-mmm-yy	-	18-Oct-21	27-Oct-21	27-Oct-21	25-Nov-21	25-Nov-21
Analysis Date (on or before)	dd-mmm-yy	-	21-Oct-21	4-Nov-21	4-Nov-21	3-Dec-21	3-Dec-21
Certificate of Analysis No.	-	-	2143092	2144619	2144619	2149003	2149003
Benzene	ug/L	5.0	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	ug/L	24	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	2.4	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene Mixture	ug/L	300	<0.5	<0.5	<0.5	<0.5	<0.5
Petroleum Hydrocarbons F1 ¹	ug/L	750	<25	<25	<25	<25	<25
Petroleum Hydrocarbons F2	ug/L	150	<u>678</u>	<100	<100	<100	<100
Petroleum Hydrocarbons F3	ug/L	500	<100	<100	<100	<100	<100
Petroleum Hydrocarbons F4	ug/L	500	<100	<100	<100	<100	<100

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

All Types of Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Exceeds standard

Detection limit exceeds standard

F1 fraction does not include BTEX.

TABLE 3C GROUNDWATER ANALYTICAL RESULTS BTEX and PHCs
2660-2680 Broack Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 coarse	Trip Blank	Trip Spike Results Shown as % Recovery
Screen Depth	m	-	-	-
Sampling Date	dd-mmm-yy	-	19-Oct-21	18-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	2-Nov-21	2-Nov-21
Certificate of Analysis No.	-	-	2144619	2144619
Benzene	ug/L	5.0	<0.5	43.3
Toluene	ug/L	24	<0.5	42.5
Ethylbenzene	ug/L	2.4	<0.5	40.4
Xylene Mixture	ug/L	300	<0.5	119
Petroleum Hydrocarbons F1 ¹	ug/L	750	<25	38
Petroleum Hydrocarbons F2	ug/L	150	-	-
Petroleum Hydrocarbons F3	ug/L	500	-	-
Petroleum Hydrocarbons F4	ug/L	500	-	-

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

All Types of Property-Use, Coarse-Textured Soil

- Not analyzed

m bg

meters below grade

Sample discounted

Exceeds standard

Detection limit exceeds standard

F1 fraction does not include BTEX.

Value

Value

1

TABLE 3D GROUNDWATER ANALYTICAL RESULTS VOCs (excluding BTEX)

Sample Name	Units	STANDARDS Table 2 coarse	MW1S	MW3D	MW93D Field Duplicate of MW3D	MW203	Trip Blank	Trip Spike
Screen Depth	m	-	3.08-4.60	5.78-7.30	5.78-7.30	3.05-6.10	-	-
Sampling Date	dd-mm-yy	-	18-Oct-21	18-Oct-21	18-Oct-21	27-Oct-21	19-Oct-21	18-Oct-21
Analysis Date (on or before)	dd-mm-yy	-	21-Oct-21	21-Oct-21	21-Oct-21	4-Nov-21	2-Nov-21	2-Nov-21
Certificate of Analysis No.	-	-	2143092	2143092	2143092	2144619	2144619	2144619
Acetone	ug/L	2.700	<5.0	<5.0	<5.0	<5.0	<5.0	111 [1]
Bromodichloromethane	ug/L	16	<5.0	<5.0	<5.0	<5.0	<5.0	41.2 [1]
Bromoforn	ug/L	25	<5.0	<5.0	<5.0	<5.0	<5.0	34.4 [1]
Bromomethane	ug/L	0.89	<5.0	<5.0	<5.0	<5.0	<5.0	46.6 [1]
Carbon Tetrachloride	ug/L	0.79	<5.0	<5.0	<5.0	<5.0	<5.0	38.4 [1]
Chlorobenzene	ug/L	30	<5.0	<5.0	<5.0	<5.0	<5.0	39.8 [1]
Chloroform	ug/L	2.4	<5.0	<5.0	<5.0	<5.0	<5.0	44.6 [1]
Dibromochloromethane	ug/L	25	<5.0	<5.0	<5.0	<5.0	<5.0	36.6 [1]
Dichlorobenzene, 1,2-	ug/L	3.0	<5.0	<5.0	<5.0	<5.0	<5.0	43.5 [1]
Dichlorobenzene, 1,3-	ug/L	59	<5.0	<5.0	<5.0	<5.0	<5.0	43.5 [1]
Dichlorobenzene, 1,4-	ug/L	1.0	<5.0	<5.0	<5.0	<5.0	<5.0	42.2 [1]
Dichlorodifluoromethane	ug/L	590	<5.0	<1.0	<1.0	<1.0	<1.0	50.2 [1]
Dichloroethane, 1,1-	ug/L	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	45.2 [1]
Dichloroethane, 1,2-	ug/L	1.6	<5.0	<5.0	<5.0	<5.0	<5.0	41.8 [1]
Dichloroethylene, 1,1-	ug/L	1.6	<5.0	<5.0	<5.0	<5.0	<5.0	42.5 [1]
Dichloroethylene, 1,2-cis-	ug/L	1.6	<5.0	<5.0	<5.0	<5.0	<5.0	42.4 [1]
Dichloroethylene, 1,2-trans-	ug/L	1.6	<5.0	<5.0	<5.0	<5.0	<5.0	42.2 [1]
Dichloropropane, 1,2-	ug/L	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	44.0 [1]
Dichloropropane, 1,3-	ug/L	0.50	<5.0	<5.0	<5.0	<5.0	<5.0	73.7 [1]
Ethylene dibromide	ug/L	0.20	<5.0	<5.0	<5.0	<5.0	<5.0	39.6 [1]
Hexane (n)	ug/L	51	<5.0	<5.0	<5.0	<5.0	<5.0	27.7 [1]
Methyl Ethyl Ketone	ug/L	1,800	<5.0	<5.0	<5.0	<5.0	<5.0	108 [1]
Methyl Isobutyl Ketone	ug/L	640	<5.0	<5.0	<5.0	<5.0	<5.0	103 [1]
Meihyl tert-Butyl Ether (MTBE)	ug/L	15	<5.0	<5.0	<5.0	<5.0	<5.0	101 [1]
Methylene Chloride	ug/L	50	<5.0	<5.0	<5.0	<5.0	<5.0	40.6 [1]
Styrene	ug/L	5.4	<5.0	<5.0	<5.0	<5.0	<5.0	38.6 [1]
Tetrachloroethane, 1,1,1,2-	ug/L	1.1	<5.0	<5.0	<5.0	<5.0	<5.0	40.1 [1]
Tetrachloroethane, 1,1,2,2-	ug/L	1.0	<5.0	<5.0	<5.0	<5.0	<5.0	34.1 [1]
Tetrachloroethylene	ug/L	1.6	<5.0	<5.0	<5.0	<5.0	<5.0	40.5 [1]
Trichloroethane, 1,1,1-	ug/L	200	<5.0	<5.0	<5.0	<5.0	<5.0	40.8 [1]
Trichloroethane, 1,1,2-	ug/L	4.7	<5.0	<5.0	<5.0	<5.0	<5.0	40.0 [1]
Trichloroethylene	ug/L	1.6	<5.0	<5.0	<5.0	<5.0	<5.0	44.0 [1]
Trichlorofluoromethane	ug/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	44.0 [1]
Vinyl Chloride	ug/L	0.50	<5.0	<5.0	<5.0	<5.0	<5.0	43.5 [1]

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Poable Ground Water Condition

All Types of Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

Sample discounted

Value Exceeds standard

Value Detection limit exceeds standard

APPENDIX I
PLAN OF SURVEY AND PROPOSED
DEVELOPMENT PLAN

PLAN OF SURVEY
SHOWING TOPOGRAPHICAL INFORMATION OF
PART OF LOTS 1, 2, AND 3
REGISTERED PLAN 585
CITY OF PICKERING
REGIONAL MUNICIPALITY OF DURHAM

KRCMAR SURVEYORS LTD. 2018
SCALE 1:500

METRIC DATA CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

BEARING
BEARINGS HEREON ARE BEARING BEARS, TRUE BEARINGS OF OBSERVED REFERENCE POINTS AND TRUE BEARINGS OF SMARTNET R/W NETWORK, AND ARE REFERRED TO THE 6° ITM COORDINATE (NAD 83 (CSRS(2011))).
FOR BEARING COMPARISONS, THE FOLLOWING ROTATIONS WERE APPLIED:
P3 AND P8 - 010310° COUNTER-CLOCKWISE.
DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND CAN BE CONVERTED TO HORIZONTAL DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.999972.

6° UTM ZONE 17 COORDINATES
NAD 83 (CSRS(2011)) (CENTRAL MERIDIAN 78°00' WEST LONGITUDE)
SUBSTATION 1467 OF SHARON ROAD/AVE 26.93 TAKEN UNDER THE SURVEYORS ACT.

OBSERVED REFERENCE POINTS	
MONUMENT ID	EASTING
SB	4 860 258.98
SB	4 860 014.55
SB	653 509.90
SB	653 509.24

ELEVATION
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE RELATED TO TOWN OF AURORA BENCH MARK NO. 031, HAVING AN ELEVATION OF 907.9 METRES.
NOTE
UNDERGROUND SERVICES WERE NOT SURVEYED.

- LEGEND**
- DENOTES BENCH MARK (R/W)
 - DENOTES SURVEY MONUMENT PLANTED
 - DENOTES SHORT STANDARD IRON BAR
 - DENOTES LONG STANDARD IRON BAR
 - DENOTES IRON BAR WITH IRON BAR
 - DENOTES CEMENT CAPPING
 - DENOTES CUT CROSS
 - DENOTES CONCRETE WELLS
 - DENOTES MEASURED
 - DENOTES PLAN 408-27228
 - DENOTES PLAN 408-27228
 - DENOTES PLAN 408-27228
 - DENOTES PLAN 408-27228
 - DENOTES PLAN 408-27228
 - DENOTES PLAN 408-27228
 - DENOTES NORTH PICKERING COMMUNITY DEVELOPMENT PROJECT
 - DENOTES HORTON WALLACE & GRAVES LTD. O/S
 - DENOTES DOOR SILL ELEVATION
 - DENOTES GATES WALK ELEVATION
 - DENOTES GAS VALVE/KEY
 - DENOTES FIRE HYDRANT
 - DENOTES UTILITY POLE
 - DENOTES LIGHT POLE
 - DENOTES TRAFFIC SIGNAL POLE
 - DENOTES UTILITY/TRAFFIC SIGNAL/LIGHT STANDARD POLE
 - DENOTES HAND WELL
 - DENOTES OVERHEAD UTILITY WIRES
 - DENOTES MAINTENANCE HOLE ELEVATION AT TOP CENTRE
 - DENOTES CATCH BASIN ELEVATION AT TOP CENTRE
 - DENOTES MANHOLE INVERT AT TOP
 - DENOTES CORRUGATED STEEL PIPE
 - DENOTES INVERT ELEVATION AT CENTRE
 - DENOTES TERMINAL BOX
 - DENOTES MONITORING WELL ELEVATION AT GROUND
 - DENOTES WELL CAP ELEVATION AT TOP CENTRE
 - DENOTES SIGN
 - DENOTES CONIFEROUS TREE WITH TRUNK DIAMETER
 - DENOTES DECIDUOUS TREE WITH TRUNK DIAMETER
 - DENOTES EXISTING GRADE ELEVATION
 - DENOTES UTILITY
 - DENOTES WOOD STAKE
 - DENOTES UNDERGROUND UTILITY MARKER

TOTAL SITE AREA = 25896.6 m²

MUNICIPAL ADDRESSES
Nos 2692, 2672, AND 2660 BROOK ROAD, PICKERING

SURVEYOR'S CERTIFICATE
I CERTIFY THAT: 1. THIS PLAN WAS PREPARED BY ME OR ASSISTANTS WITH ME, AND I AM A MEMBER OF THE SURVEYORS ACT AND THE REGULATIONS THEREUNDER.
2. THE SURVEY WAS COMPLETED ON THE 22nd DAY OF FEBRUARY, 2018

DATE: MARCH 6, 2018
TOM KRCMAR
Ontario Land Surveyor

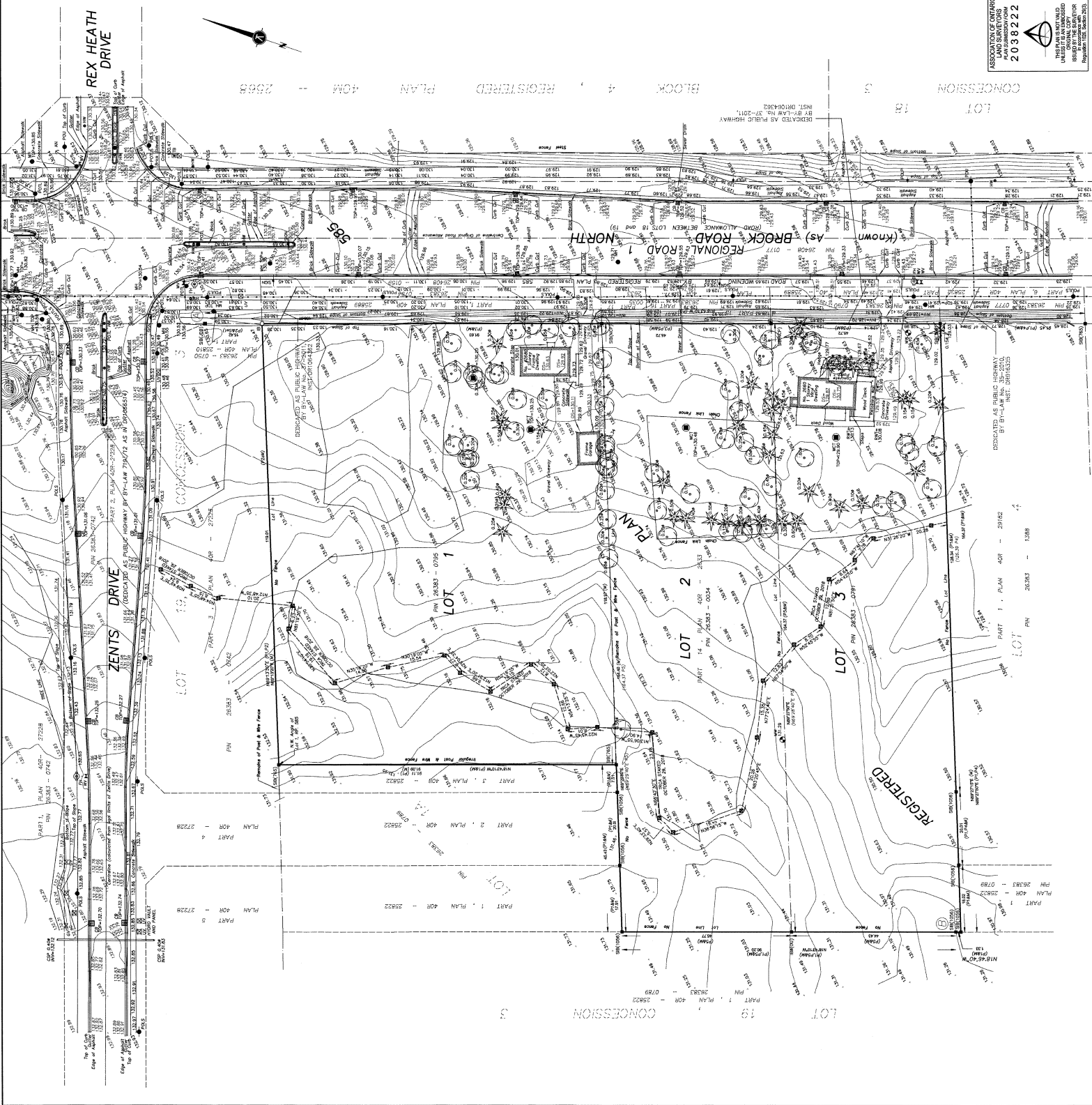
UPDATE
NUMBER: 2018-02-01
© COPYRIGHT 2018, KRCMAR SURVEYORS LTD.
This document has been issued in confidence. It is not to be used, in whole or in part, in any way without the written consent of KRCMAR SURVEYORS LTD.
PLAN AVAILABLE AT www.PlanetBoundary.ca
FIELD: R/W/01 (DRAWN ASSISTANT) | CHECKED: S.M.R. | JOB NO: 18-011
FILE: 18-011 (R/W/01) | PLOT NO.: 1039 (2366/2014) | WORK ORDER NO.: 20667
1197 Centre Street, Thornhill, ON L3H 0K6 | 905-708-0933 | FAX: 905-708-9271 | www.krcmar.ca

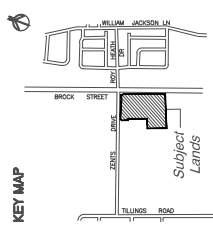


ASSOCIATION OF ONTARIO
LAND SURVEYORS
2018 222

THIS PLAN MAY BE
USED AS EVIDENCE
IN COURT BY THE SURVEYOR
REGISTERED UNDER THE
REGULATIONS (1964-2013)

KRCMAR





NTA

Subject Lands 2.58 ha
 Area of Woodlot 0.18 ha
 Area of Public Road 0.18 ha
 Net Developable Area 2.25 ha
 UPHA = 86.22

Development Statistics:

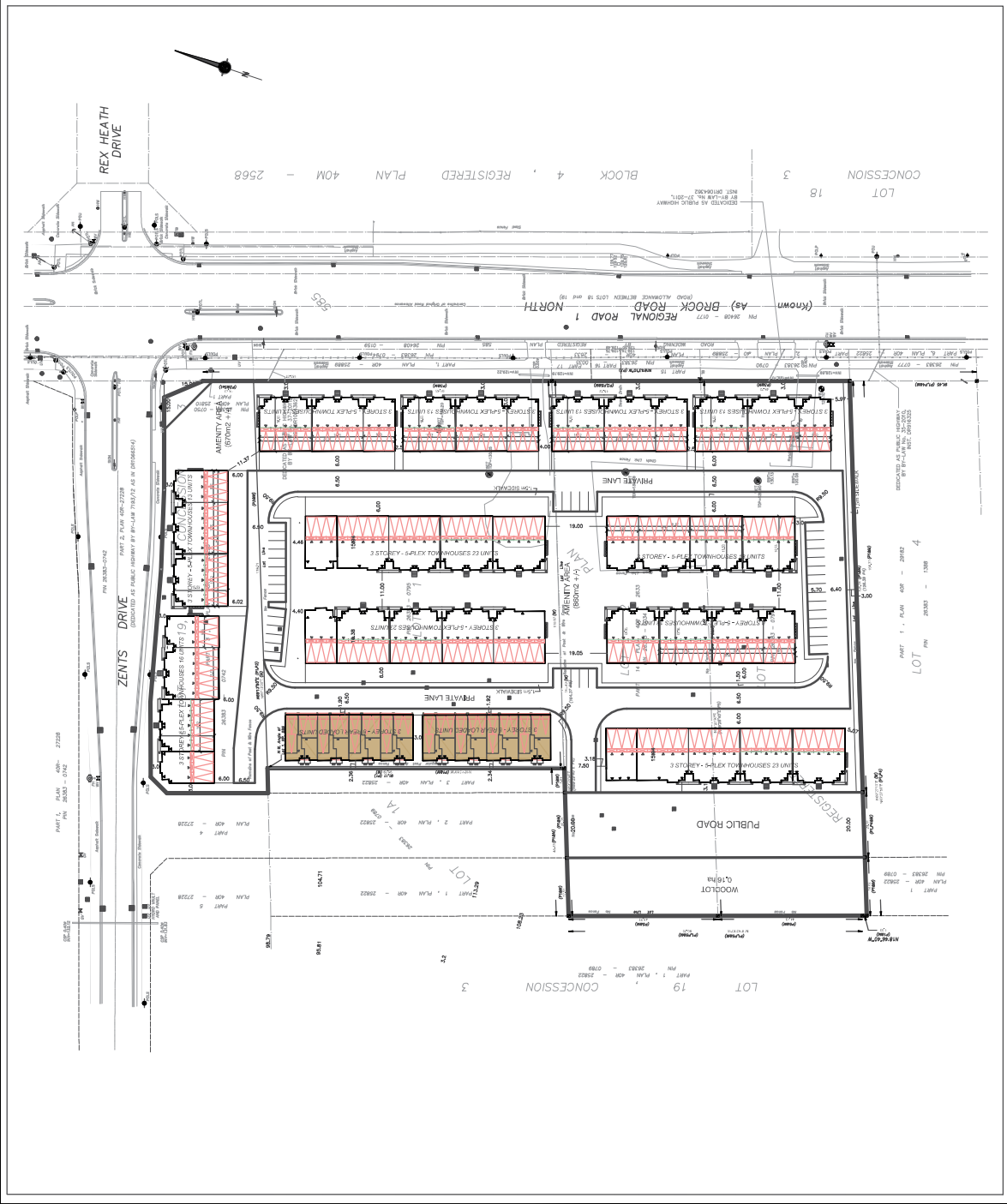
Unit Type Units
 5-Bed Townhouses 186
 3-Bed Near Loaded Townhouses 16
 Total Units 202

Surface Parking Required
 Visitor Parking @0.20 spaces per unit 40
 Surface Parking Provided 40

Scale: 0 10 20 30 40m

DATE	DESCRIPTION
15/09/20	PRELIMINARY
16/09/20	REVISED
17/09/20	REVISED
18/09/20	REVISED

CONCEPTUAL DEVELOPMENT PLAN
 PART OF LOTS 1, 2, AND 3
 REGISTERED PLAN 585
 CITY OF PICKERING
 REGIONAL MUNICIPALITY OF DURHAM



APPENDIX II
SAMPLING AND ANALYSIS PLAN



SAMPLING AND ANALYSIS PLAN PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

Site: 2660-2680 Brock Road, Pickering, Ontario

Project No: CT2694.03

Date: September 30, 2021 (Updated January 24, 2022)

OBJECTIVES

On behalf of Brock Zents Partnership, Terrapex Environmental Ltd. (Terrapex) has prepared this sampling and analysis plan for a Phase Two Environmental Site Assessment (ESA) at 2660-2680 Brock Road, Pickering, Ontario, the "Phase Two Property". The Phase Two ESA is to be conducted for the purposes of filing a Record of Site Condition per Ontario Regulation (O. Reg.) 153/04, *Records of Site Condition - Part XV.1 of the Act* on the basis of future development for residential use. The objective of this ESA is to determine the location and concentration of contaminants in the land or water on, in or under the Phase Two Property.

The Phase Two ESA will investigate all Areas of Potential Environmental Concern (APECs) which were identified in a Phase One ESA of the property conducted by Terrapex, dated May 26, 2022. The APECs are shown on Figure 1 and listed in Table 1.

SAMPLING PROGRAM

The media to be investigated and the contaminants of concern have been determined based on findings from previous investigations and potential environmental concerns identified from on-site and off-site activities. The media, contaminants, investigation and sampling methods are summarized on Table 2. The rationale for each sampling location, and the proposed laboratory analytical program for each location, is shown on Table 3. Modifications may be made to the program during the course of implementation, based on field observations, and will be documented in the Phase Two ESA report.

STANDARD OPERATING PROCEDURES

The following Terrapex Standard Operating Procedures (SOPs) will be used:

SOP E01.00 – Field Meter Calibration

SOP E03.00 – Borehole Advancement Using Rotary Auger

SOP E03.02 – Borehole Advancement Using Hand Augers

SOP E04.00 – Monitoring Well Installation

SOP E05.00 – Monitoring Well Development

SOP E06.00 – Groundwater Monitoring

SOP E07.01 – Groundwater Sampling, Low Volume Purge, Using Peristaltic Pump

SOP E09.00 – Soil Sample Handling

SOP E10.00 – Soil Classification

SOP E12.00 – Field Program Quality Assurance & Quality Control

SOP E14.00 – Hydraulic Conductivity Slug Testing

DATA QUALITY OBJECTIVES

The investigation will be completed following Terrapex SOP *E12.00 - Field Program Quality Assurance & Quality Control*, which specifies requirements for minimizing cross-contamination, record-keeping, sample storage, sample submission, field QA/QC samples and data quality objectives. If the data quality objectives are not met, the Qualified Person for the project will review the results and determine whether the deviation affects decision-making or the overall objectives of the investigation.

LABORATORY PROGRAM

Project Laboratory: Paracel Laboratories Ltd. and AGAT Laboratories Ltd.

Accreditation: Standards Council of Canada (SCC) and/or Canadian Association for Laboratory Accreditation Inc. (CALA) in accordance with the International Standard ISO/IEC17025-2005 – *General Requirements for the Competence of Testing and Calibration Laboratories*

Proposed Analytical Program: See Table 3, attached.

Analytical Methods: The laboratory will use the methods specified in the *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011 (Analytical Protocol)*.

Sample Containers and Preservatives: See Table 4, attached.

AGAT and Paracel's Quality Assurance/Quality Control (QA/QC) program will consist of the analysis of method blanks, laboratory control samples, matrix spikes, sample duplicates, and surrogates, as appropriate for the particular analysis protocol and as specified in the *Analytical Protocol*.

SUB-CONTRACTORS

All sub-contractors used in the Phase Two ESA will be approved suppliers according to Terrapex's ISO 9001:2008 system. The following sub-contractors will be retained for this project:

Private utility locates: Landshark Locates

Borehole drilling and well installation: Pontil Drilling

Laboratory analyses: Paracel Laboratories Ltd. and AGAT Laboratories Ltd.

Waste disposal: TBD

ATTACHMENTS

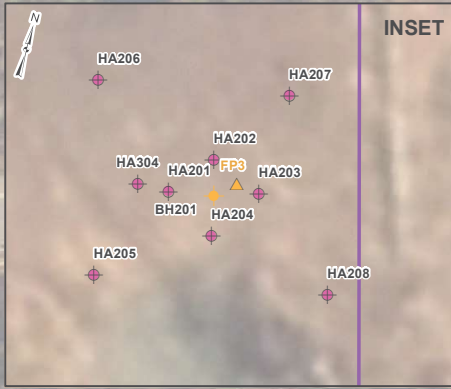
Figure 1 – Areas of Potential Environmental Concern and Proposed Sampling Locations

Table 1 – Areas of Potential Environmental Concern

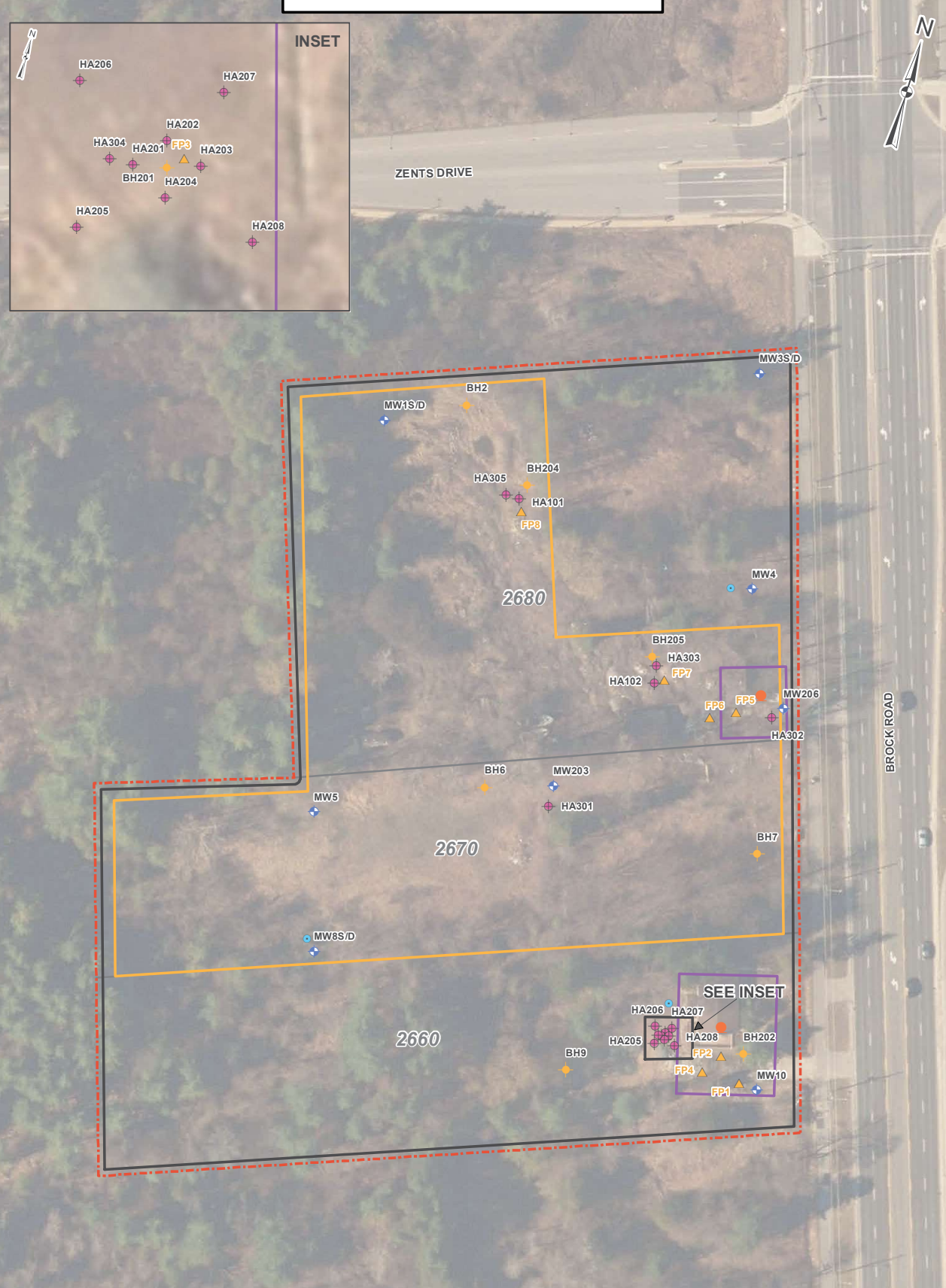
Table 2 – Media to be Investigated and Chemicals of Concern

Table 3 – Proposed Sampling Plan

Table 4 – Sample Containers and Preservation Plan



I:\arroll\W\PROJECTS\Toronto\CT2694.03\2660-2680 Brock Rd Pickering\MXD\Phase II\ESACT2694.03\FIG3B/APECS_SAMPLE_LOCATIONS.mxd



LEGEND

SITE BOUNDARY	SAMPLE LOCATIONS
FUEL STORAGE TANKS	FILL PILE
PARCELS	BOREHOLE
APEC-1	HAND AUGER
APEC-2	MONITORING WELL
APEC-3	WATER WELL



PROJECT #		CT2694.03	
DATE		MAY 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 1	

TABLE 1 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

Area of Potential Environmental Concern ¹	Location Of Area of Potential Environmental Concern On Phase One Property	Potentially Contaminating Activity ²	Location of PCA (On-Site Or Off-Site)	Contaminants Of Potential Concern ³	Media Potentially Impacted (Ground water, Soil, and/or Sediment)
APEC 1	The Site (2660 and 2670 Brock Road)	28 – Gasoline and Associated Products Storage in Fixed Tanks	On-site	<ul style="list-style-type: none"> - BTEX - PHCs - PAHs 	<ul style="list-style-type: none"> - Soil - Groundwater
APEC 2	The Site (2660, 2670, 2680 Brock Road)	30 – Impartation of Fill Material of Unknown Quality	On-site	<ul style="list-style-type: none"> - BTEX - PHCs - PAHs - Metals - Hydride-forming metals - ORPs 	<ul style="list-style-type: none"> - Soil
APEC 3	The Site (2670 and 2680 Brock Road)	49 – Salvage Yard, including automobile wrecking	On-site	<ul style="list-style-type: none"> - BTEX - PHCs - PAHs - Metals - Hydride-forming metals - ORPs 	<ul style="list-style-type: none"> - Soil - Groundwater

BTEX: benzene, toluene, ethylbenzene, xylenes

PHCs: petroleum hydrocarbons (F1-F4)

PAHs: polycyclic aromatic hydrocarbons

Hydride-forming metals: arsenic, antimony and selenium

ORPs: Boron – hot water soluble, hexavalent chromium, cyanide, mercury, pH (in soil only), electrical conductivity (EC) (in soil only), sodium adsorption ratio (SAR) (in soil only), sodium (in groundwater only), and chloride (in groundwater only)

TABLE 2 - MEDIA INVESTIGATED, CONTAMINANTS OF CONCERN AND METHODS

Media	Contaminants of Concern	Investigation Method	Equipment	Sample Collection Method
Soil	Petroleum hydrocarbons Polycyclic aromatic hydrocarbons Volatile organic compounds Benzene, toluene, ethylbenzene, xylenes Metals, metal hydrides Mercury Cyanide Chromium VI Hot water soluble boron Electrical conductivity Sodium absorption ratio (SAR)	Boreholes	rotary auger rig	Split spoon sampler, sample every 0.75 m
Groundwater	Petroleum hydrocarbons Polycyclic aromatic hydrocarbons Volatile organic compounds Benzene, toluene, ethylbenzene, xylenes Metals, metal hydrides Mercury Cyanide Chromium VI Sodium, chloride	Monitoring wells	rotary auger rig	Low-flow sampling using peristaltic pump, target top 0.5 m of water column

TABLE 3 PROPOSED SAMPLING PLAN AND RATIONALE
2660, 2670, 2680 Brock Road, Pickering, ON

Borehole No.	Location	APEC	Depth (m)	Screened Interval (m)	Sampling Technique	Rationale	Lab Analyses							
							Soil				Groundwater			
							BTEX, F1-F4	VOCs	Inorg.	PAHs	BTEX, F1-F4	PAHs	VOCs	Inorg.
BH201	2660 Brock Road - Fill pile located in southeastern portion of the Site.	2	6.7	-	split spoon	To investigate the quality of fill on-site.	1	1	1	1				
BH202	2660 Brock Road - southeastern portion of the Site, adjacent to the residence.	1, 2	6.7	-	split spoon	To investigate the quality of fill on-site and historical use of heating oil.	2	1	1	2				
MW203	2670 Brock Road - central portion of the Site.	2, 3	6.7	2.95-6.00	split spoon, peristaltic pump	To investigate the quality of fill on-site and possible historic use of the Site as a salvage yard.	2	1	1	2	1	1	1	1
BH204	2680 Brock Road - central north portion of the Site.	2, 3	6.7	-	split spoon	To investigate the quality of fill on-site and possible historic use of the	1	1						
BH205	2680 Brock Road - eastern portion of the Site.	2, 3	6.7	-	split spoon	To investigate the quality of fill on-site and possible historic use of the	1	1						
MW206	2680 Brock Road - eastern portion of the Site.	1, 2, 3	6.1	2.70-5.75	split spoon, peristaltic pump	To investigate the quality of fill on-site, possible historic use of the Site as a salvage yard, and historical use	1	1	1	2	1	1		1
HA101	2680 Brock Road - central north portion of the Site.	2	0.5, 0.7	-	hand auger	Additional fill analysis			2	2				
HA102	2680 Brock Road - eastern portion of the Site.	2	0.5, 0.7	-	hand auger	Additional fill analysis			2	2				
HA201- HA204	2660 Brock Road - Fill pile located in southeastern portion of the Site.	2	0.5	-	hand auger	Delineation and potential averaging			4					
HA205- HA208	2660 Brock Road - Fill pile located in southeastern portion of the Site.	2	0.5	-	hand auger	Delineation, if required			4					
HA301	2670 Brock Road - adjacent to MW203	2	0.5	-	hand auger	Additional fill analysis	1	1						
HA302	2680 Brock Road - adjacent to MW206	2	1.7	-	hand auger	Additional fill and PHC analysis	1							
HA303	2680 Brock Road - adjacent to BH205	2	0.5	-	hand auger	Additional fill analysis	1	1						
HA304	2660 Brock Road - adjacent to BH201	2	0.5	-	hand auger	Additional fill analysis	1	1						
HA305	2680 Brock Road - adjacent to BH204	2	0.5	-	hand auger	Additional fill analysis	1	1						
GS401	From under FP1	2	0.3	-	excavator bucket	Confirmatory sample from beneath FP1			1	1				
GS402	From under FP2	2	0.3	-	excavator bucket	Confirmatory sample from beneath FP2			1	1				
GS403	From under FP3	2	0.3	-	excavator bucket	Confirmatory sample from beneath FP3			1	1				
GS404	From under FP4	2	0.3	-	excavator bucket	Confirmatory sample from beneath FP4			1	1				
GS405	From under FP5	2	0.3	-	excavator bucket	Confirmatory sample from beneath FP5			1	1				
GS406	From under FP6	2	0.3	-	excavator bucket	Confirmatory sample from beneath FP6			1	1				
GS407	From under FP7	2	0.3	-	excavator bucket	Confirmatory sample from beneath FP7			1	1				
GS408	From under FP8	2	0.3	-	excavator bucket	Confirmatory sample from beneath FP8			1	1				
MW1S	2680 Brock Road - northwest portion of the Site	3	4.7	3.08-4.60	peristaltic pump	To investigate the quality of groundwater on-site and possible historic use of the Site as a salvage					1		1	1
MW3D	2680 Brock Road - northeast portion of the Site	3	14	5.78-7.30	peristaltic pump	To investigate the quality of groundwater on-site and possible historic use of the Site as a salvage					1		1	1
MW10	2660 Brock Road - southeastern portion of the Site, adjacent to the residence.	1	13.8	2.28-3.80	peristaltic pump	To investigate the quality of groundwater on-site and historical use of heating oil.					1	1		
Total Before QA/QC Samples							13	10	24	19	5	3	3	4
QA/QC field duplicate						One duplicate per 10 samples	2	1	3	2	1	1	1	1
QA/QC trip blank						One per sampling round (volatiles in groundwater only)	1	1			1		1	
QA/QC trip spike						One per sampling round (volatiles in groundwater only)					1		1	
Total Laboratory Analyses							17	13	27	21	9	4	7	5

Notes: APEC = Area of Potential Concern, refer to phase one ESA
VOCs = volatile organic compounds (O. Reg. 153/04)
BTEX/F1-F4 = benzene, toluene, ethylbenzene, xylenes and petroleum hydrocarbons in the F1 to F4 fractions
Inorg. = metals and general inorganic parameters (O. Reg. 153/04)
PAHs = polycyclic aromatic hydrocarbons (O. Reg. 153/04)

TABLE 4 - SAMPLE CONTAINERS AND PRESERVATION

Media	Analytical Parameter	Field Filtered	Sample Container	Preservation	Holding Time (preserved)
Soil	Metals, metal hydrides, hot water soluble boron, chromium VI, SAR, EC, pH	Not applicable	250 mL glass jar	5 ± 3 °C	180 days
	Cyanide	Not applicable	250 mL glass jar, teflon lined lid	5 ± 3 °C	14 days
	BTEX, PHC F1	Not applicable	40 mL glass vial and 60 mL glass jar, no headspace	10 mL methanol, 5 ± 3 °C	14 days
	PHCs F2-F4	Not applicable	120 mL glass jar, teflon lined lid	5 ± 3 °C	14 days
	VOCs	Not applicable	40 mL glass vial and 60 mL glass jar, no headspace	10 mL methanol, 5 ± 3 °C	14 days
	PAHs	Not applicable	120 mL glass jar, teflon lined lid	5 ± 3 °C	60 days
Groundwater	Metals, metal hydrides, sodium	Yes	250 mL HDPE bottle	HNO ₃ to pH < 2 5 ± 3 oC	60 days
	Mercury	Yes	125 mL clear glass bottle	HCl to pH < 2 5 ± 3 oC	28 days
	Chromium VI	Yes	250 mL HDPE bottle	(NH ₄) ₂ SO ₄ /HN ₄ OH 5 ± 3 oC	28 days
	Cyanide	No	250 mL HDPE bottle	NaOH to pH > 12 5 ± 3 °C	14 days
	BTEX, PHC F1	No	3 x 40 mL clear glass septum vial, no headspace	NaHSO ₄ to pH < 2 5 ± 3 oC	14 days
	PHCs F2-F4	No	2 x 500 mL amber glass bottle	NaHSO ₄ to pH < 2 5 ± 3 oC	40 days
	VOCs	No	3 x 40 mL clear glass septum vial, no headspace	NaHSO ₄ to pH < 2 5 ± 3 oC	14 days
	PAHs	No	1 L amber glass bottle	5 ± 3 °C	14 days

SAR = sodium absorption ratio

EC = electrical conductivity

BTEX = benzene, toluene, ethylbenzene, xylenes

PHC F1 - F4 = petroleum hydrocarbons F1 to F4 fractions

VOCs = volatile organic compounds


PAHs = polycyclic aromatic hydrocarbons (O. Reg. 153/04)

PCBs = polychlorinated biphenyls

TCLP = toxicity characterization leachate procedure

HDPE = high density polyethylene

APPENDIX III
BOREHOLE LOGS

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: MW1D										
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 132.03											
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:	PROJECT NO.: 18-041										
SAMPLE TYPE		AUGER	DRIVEN	CORING	DYNAMIC CONE	SHELBY	SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)		Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40	80	120	160	PL					
		Topsoil (400 mm)	0	132	3					1	3		<p>Borehole cave-in at 12.1 m below ground surface (mbgs) and the groundwater measured at 7.3 mbgs on completion.</p> <p>Groundwater measured at 4.36 mbgs on May 23, 2018.</p>	
			0.5	131.5						2	46			
			1	131	46									
			1.5	130.5						3	83/275			
		brown damp to moist with oxidization	2	130						4	50/125			
			2.5	129.5	50/125									
			3	129						5	50/150			
			3.5	128.5	50/150									
		hard SANDY CLAYEY SILT trace gravel (TILL)	4	128						6	75			
		grey moist	4.5	127.5										
			5	127										
			5.5	126.5										
			6	126										
			6.5	125.5	60					7	60			
			7	125										
			7.5	124.5										
		with sand seams	8	124	35					8	35			
			8.5	123.5										
			9	123										
			9.5	122.5	40					9	40			
				LOGGED BY: SA		DRILLING DATE: May 4, 2018								
				REVIEWED BY: VN		Page 1 of 2								

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: MW1D											
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN		ELEV. (m) 132.03											
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:		EASTING:		PROJECT NO.: 18-041									
SAMPLE TYPE		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON							
<input type="checkbox"/> AUGER <input checked="" type="checkbox"/> DRIVEN <input checked="" type="checkbox"/> CORING <input type="checkbox"/> DYNAMIC CONE <input type="checkbox"/> SHELBY <input type="checkbox"/> SPLIT SPOON															
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	N-Value (Blows/300mm)	Water Content (%)	PL	W.C.	LL	SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40 80 120 160	20 40 60 80									
		very dense, wet, grey SAND AND SILT trace gravel, trace clay (TILL) with sand seams and layers	10	122											
		very dense, wet, grey SANDY GRAVEL	10.5	121.5		50/150 ▲					10		50/150		Augering through rock/ boulder
		very dense, wet, grey SANDY GRAVEL	11	121											
		very dense, wet, grey SANDY GRAVEL	11.5	120.5											
		very dense, wet, grey SANDY GRAVEL	12	120		50/150 ▲					11		50/150		Augering through rock/ boulder
		very dense, wet, grey SANDY GRAVEL	12.5	119.5											
		hard, damp, grey CLAYEY SILT	13	119											
		hard, damp, grey CLAYEY SILT	13.5	118.5		50/100 ▲					12		50/100		Augering through rock/ boulder
		END OF BOREHOLE													



LOGGED BY: SA

DRILLING DATE: May 4, 2018

REVIEWED BY: VN

Page 2 of 2

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon				BH No.: MW1S											
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN		ELEV. (m) 132.03													
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:		EASTING:		PROJECT NO.: 18-041											
SAMPLE TYPE		<input type="checkbox"/> AUGER	<input type="checkbox"/> DRIVEN	<input checked="" type="checkbox"/> CORING	<input type="checkbox"/> DYNAMIC CONE	<input type="checkbox"/> SHELBY	<input type="checkbox"/> SPLIT SPOON										
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)				Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT (N)	Well Construction	REMARKS	
					40	80	120	160	PL	W.C.	LL						
					N-Value (Blows/300mm)												
					20	40	60	80	20	40	60	80					
			0	132													Groundwater measured at 0.81 mbgs on May 23, 2018.
			0.5	131.5													
			1	131													
			1.5	130.5													
			2	130													Bentonite
			2.5	129.5													Sand
			3	129													
			3.5	128.5													Sand + Screen
			4	128													
			4.5	127.5													
		END OF BOREHOLE															



LOGGED BY: SA

DRILLING DATE: May 7, 2018

REVIEWED BY: VN

Page 1 of 1

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: BH2												
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN						ELEV. (m) 131.44								
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:		EASTING:		PROJECT NO.: 18-041										
SAMPLE TYPE <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> DRIVEN <input checked="" type="checkbox"/> CORING <input type="checkbox"/> DYNAMIC CONE <input type="checkbox"/> SHELBY <input type="checkbox"/> SPLIT SPOON																
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)				Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40	80	120	160	PL	W.C.	LL					
					N-Value (Blows/300mm) ▲											
					20	40	60	80	20	40	60	80				
		Topsoil (300 mm)	0										1A			Borehole cave-in at 7.6 mbgs and the groundwater measured at 6.7 mbgs on completion.
		compact, moist, brown SANDY SILT	0.5	131	24								1B	24		
		hard, damp, brown SANDY CLAYEY SILT trace gravel (TILL)	1	130.5	60								2	60		
			1.5	130									3	50/150		
			2	129.5	50/150											
		brown damp to moist with oxidization	2.5	129	50/125								4	50/125		
			3	128.5									5	50/100		
			3.5	128	50/100											
			4	127.5												
		grey moist to wet	4.5	127												
		very dense SANDY SILT trace gravel trace to some clay (TILL) with sand seams and layers	5	126.5	52								6	52		
			5.5	126											Augering through rock/ boulder	
			6	125.5	50/100								7	50/100		
			6.5	125												
			7	124.5												
			7.5	124	50/150								8	50/150	Augering refusal due to a boulder	
			8	123.5												
		END OF BOREHOLE														



LOGGED BY: SA

DRILLING DATE: May 4, 2018

REVIEWED BY: VN

Page 1 of 1

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: MW3D									
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 130.37										
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:	PROJECT NO.: 18-041									
SAMPLE TYPE		AUGER	DRIVEN	CORING	DYNAMIC CONE	SHELBY	SPLIT SPOON						
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40 80 120 160	PL	W.C.	LL					
		Topsoil (600 mm)	0	130	3				1		3		Borehole cave-in at 4.3 mbgs and the groundwater measured at 2.4 mbgs on completion.
		compact to dense, moist, brown silty sand, trace gravel, trace clay (Probable FILL)	0.5	129.5	25				2		25		Groundwater measured at 2.67 mbgs on May 23, 2018.
			1	129									
			1.5	128.5	42				3		42		
			2	128									
			2.5	127.5	52				4		52		
		very dense, brown, moist SANDY SILT with slight cohesion intermixed with TILL layers	3	127	57				5		57		
			3.5	126.5									
			4	126									
			4.5	125.5	50/125				6		50/125		Bentonite
			5	125									
			5.5	124.5									sand
			6	124									
			6.5	123.5	71/275				7		71/275		sand + screen
			7	123									
			7.5	122.5	50/125				8		50/125		
			8	122									
			8.5	121.5									
			9	121	50/150				9		50/150		Straight auger to install the monitoring well.
			9.5										



LOGGED BY: SA

DRILLING DATE: May 3, 2018

REVIEWED BY: VN

Page 1 of 2

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: MW3D										
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 130.37											
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:		PROJECT NO.: 18-041									
SAMPLE TYPE <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> DRIVEN <input checked="" type="checkbox"/> CORING <input type="checkbox"/> DYNAMIC CONE <input type="checkbox"/> SHELBY <input type="checkbox"/> SPLIT SPOON														
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS	
					40 80 120 160	PL	W.C.	LL						
					N-Value (Blows/300mm)									
					20 40 60 80	20	40	60	80					
		very dense, wet, grey SILTY SAND	10	120.5										
			10.5	120										
			11	119.5	96/250 ▲				10		96/250			
			11.5	119										
			12	118.5										
			12.5	118	50/125 ▲				11		50/125			
			13	117.5										
			13.5	117										
			16.5	116.5	50/125 ▲				12		50/125			
		END OF BOREHOLE												



LOGGED BY: SA

DRILLING DATE: May 3, 2018

REVIEWED BY: VN

Page 2 of 2

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon				BH No.: MW3S											
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN		ELEV. (m) 130.34													
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:		EASTING:		PROJECT NO.: 18-041											
SAMPLE TYPE <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> DRIVEN <input checked="" type="checkbox"/> CORING <input type="checkbox"/> DYNAMIC CONE <input type="checkbox"/> SHELBY <input type="checkbox"/> SPLIT SPOON																	
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)				Water Content (%)				SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40	80	120	160	PL	W.C.	LL	LL					
		Straight auger to install the monitoring well	0	130													Groundwater measured at 1.62 mbgs on May 23, 2018.
			0.5	129.5													
			1	129													
			1.5	128.5													Sand
			2	128													Sand + Screen Bentonite
			2.5	127.5													
		END OF BOREHOLE	3														



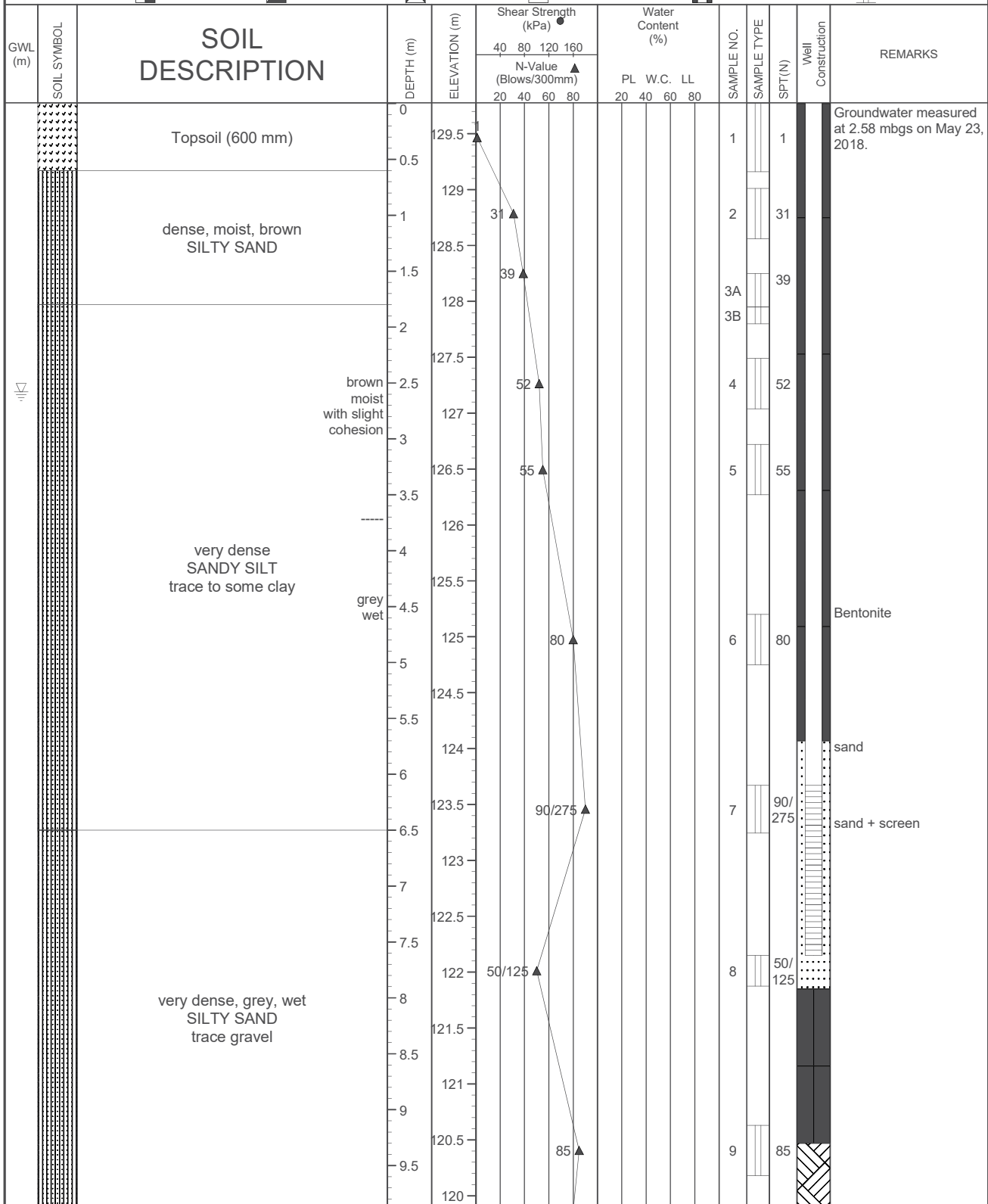
LOGGED BY: SA

DRILLING DATE: May 7, 2018

REVIEWED BY: VN

Page 1 of 1

CLIENT: The Brock Zents Partnership	METHOD: Hollow Stem Auger and Split Spoon		BH No.: MW4
PROJECT: Proposed Residential Development	PROJECT ENGINEER: VN	ELEV. (m) 129.77	
LOCATION: 2660 - 2680 Brock Road, Pickering	NORTHING:	EASTING:	PROJECT NO.: 18-041
SAMPLE TYPE <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> DRIVEN <input checked="" type="checkbox"/> CORING <input type="checkbox"/> DYNAMIC CONE <input type="checkbox"/> SHELBY <input type="checkbox"/> SPLIT SPOON			



LOGGED BY: SA

DRILLING DATE: May 2 & 3, 2018

REVIEWED BY: VN

Page 1 of 2

CLIENT: The Brock Zents Partnership		METHOD: Hollow Stem Auger and Split Spoon		BH No.: MW4									
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 129.77										
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:		PROJECT NO.: 18-041								
SAMPLE TYPE <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> DRIVEN <input checked="" type="checkbox"/> CORING <input type="checkbox"/> DYNAMIC CONE <input type="checkbox"/> SHELBY <input type="checkbox"/> SPLIT SPOON													
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40 80 120 160	PL	W.C.	LL					
					N-Value (Blows/300mm)								
					20 40 60 80								
		very dense, wet, grey SAND trace to some gravel trace silt	10	119.5									
			10.5	119					10		71		
			11	118.5									
			11.5	118									
			12	117.5									
			12.5	117	50/125				11		50/125		Augering through rock/ boulder
			13	116.5									
		hard, grey, moist CLAYEY SILT	13.5	116									
			14		50/150				12		50/150		
		END OF BOREHOLE											



LOGGED BY: SA

DRILLING DATE: May 2 & 3, 2018

REVIEWED BY: VN

Page 2 of 2

CLIENT: The Brock Zents Partnership		METHOD: Hollow Stem Auger and Split Spoon		BH No.: MW5										
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 131.59											
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:	PROJECT NO.: 18-041										
SAMPLE TYPE		AUGER	DRIVEN	CORING	DYNAMIC CONE	SHELBY	SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)		Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40	80	120	160	PL					
					N-Value (Blows/300mm)									
					20	40	60	80	20	40	60	80		
		black, moist, sand and gravel (FILL)	0	131.5	8									Groundwater measured at 5.56 mbgs on May 23, 2018.
			0.5	131										
			1	130.5	30									
			1.5	130										
			2	129.5										
		brown damp	2.5	129	50/150									
			3	128.5										
			3.5	128										
		grey moist	4	127.5										
			4.5	127										
		very dense SAND and SILT trace gravel, trace clay (TILL)	5	126.5	52									
			5.5	126										
			6	125.5										Bentonite
			6.5	125	46									Augering through rock/ boulder
			7	124.5										
			7.5	124										sand
			8	123.5	50/150									sand + screen
			8.5	123										Augering through rock/ boulder
			9	122.5	50/125									
		END OF BOREHOLE												



LOGGED BY: SA

DRILLING DATE: May 1, 2018

REVIEWED BY: VN

Page 1 of 1

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: BH6									
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 130.94										
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:	PROJECT NO.: 18-041									
SAMPLE TYPE		<input type="checkbox"/> AUGER	<input checked="" type="checkbox"/> DRIVEN	<input checked="" type="checkbox"/> CORING	<input type="checkbox"/> DYNAMIC CONE	<input type="checkbox"/> SHELBY	<input type="checkbox"/> SPLIT SPOON						
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT (N)	Well Construction	REMARKS
					40 80 120 160	PL	W.C.	LL					
		Topsoil (600 mm)	0	130.5	8				1		8		Borehole cave-in at 11.3 mbgs and the groundwater measured at 0.6 mbgs on completion.
		compact to dense	0.5	130	17				2		17		
			1	129.5	40				3		40		
			1.5	129	51				4		51		
		brown moist	2	128.5	50/125				5		50/125		
			2.5	128	75/275				6		75/275		
		grey moist to wet	3	127.5	70				7		70		
		very dense SAND AND SILT trace gravel, trace clay (TILL) with sand layers and seams	3.5	127	50/125				8		50/125		
			4	126.5	70				9		50/125		
			4.5	126	91/275				10		91/275		
			5	125.5									
			5.5	125									
			6	124.5									
			6.5	124									
			7	123.5									
			7.5	123									
			8	122.5									
			8.5	122									
		very dense, wet, grey GRAVELLY SAND	9	121.5									
			9.5										



LOGGED BY: SA

DRILLING DATE: April 30, 2018

REVIEWED BY: VN

Page 1 of 2

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: BH6									
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN		ELEV. (m) 130.94									
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:		EASTING:		PROJECT NO.: 18-041							
SAMPLE TYPE <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> DRIVEN <input checked="" type="checkbox"/> CORING <input type="checkbox"/> DYNAMIC CONE <input type="checkbox"/> SHELBY <input type="checkbox"/> SPLIT SPOON													
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40 80 120 160	PL	W.C.	LL					
					N-Value (Blows/300mm)								
					20 40 60 80	20	40	60	80				
		very dense, wet, grey SAND AND SILT trace gravel, trace clay (TILL) with sand seams and layers	10	121									
			10.5	120.5									
			11	120	50/150				11		50/150		
			11.5	119.5									
			12	119									
		very dense, wet, grey SANDY GRAVEL	12.5	118.5	50/275				12		50/275		
			13	118									
		hard, damp, grey SAND AND SILT trace gravel, trace clay (TILL) with shale pieces	13.5	117.5	50/20				13		50/20		(Possible BEDROCK)
		END OF BOREHOLE											



LOGGED BY: SA

DRILLING DATE: April 30, 2018

REVIEWED BY: VN

Page 2 of 2

CLIENT: The Brock Zents Partnership		METHOD: Hollow Stem Auger and Split Spoon		BH No.: BH7									
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 129.91										
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:	PROJECT NO.: 18-041									
SAMPLE TYPE		AUGER	DRIVEN	CORING	DYNAMIC CONE	SHELBY	SPLIT SPOON						
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40 80 120 160	PL	W.C.	LL					
		Topsoil (150 mm)	0	129.5	7				1		7		Borehole cave-in at 4.5 mbgs and the groundwater measured at 1.8 mbgs on completion.
		firm, dark brown, moist clayey silt (FILL) with sandy gravel layer	0.5	129	6				2		6		
		compact moist, brown SANDY SILT trace gravel, trace clay (TILL) with oxidization	1.5	128.5	20				3		20		The borehole moved 3 m south due to an existing concrete foundation
		very dense	2	128	26				4		26		
			2.5	127.5	26				5		55		
			3	127	55				6		50/250		
			3.5	126.5					7		34		
			4	126					8		18		
			4.5	125.5					9		16		
		brown moist with clayey silt seams	5	125	50/250				10		50/125		
			5.5	124.5					11		19		
			6	124					12		34		
			6.5	123.5					13		18		
			7	123					14		50/125		
		very dense, wet SILTY SAND	7.5	122.5					15		18		
		grey moist to wet	8	122					16		50/125		
			8.5	121.5					17		16		
			9	121					18		50/125		
			9.5	120.5					19		16		



LOGGED BY: SA

DRILLING DATE: April 30, 2018

REVIEWED BY: VN

Page 1 of 2

CLIENT: The Brock Zents Partnership		METHOD: Hollow Stem Auger and Split Spoon		BH No.: BH7										
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN		ELEV. (m) 129.91										
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:		EASTING:		PROJECT NO.: 18-041								
SAMPLE TYPE <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> DRIVEN <input checked="" type="checkbox"/> CORING <input type="checkbox"/> DYNAMIC CONE <input type="checkbox"/> SHELBY <input type="checkbox"/> SPLIT SPOON														
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)		Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40	80	PL	W.C.	LL					
		very dense, wet, grey SILTY SAND	10	120										
			10.5	119.5	50	125				10		50/125		
			11	119										
			11.5	118.5										
			12	118										
			12.5	117.5	78					11		78		
			13	117										
			13.5	116.5										
			14	116	68					12		68		
		END OF BOREHOLE												
					LOGGED BY: SA			DRILLING DATE: April 30, 2018						
					REVIEWED BY: VN			Page 2 of 2						

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: MW8D									
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 131.64										
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:	PROJECT NO.: 18-041									
SAMPLE TYPE		AUGER	DRIVEN	CORING	DYNAMIC CONE	SHELBY	SPLIT SPOON						
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					40 80 120 160	PL	W.C.	LL					
		Topsoil (600 mm)	0	131.5	3				1		3		Borehole cave-in at 12.2 mbgs and the groundwater measured at 2.7 mbgs on completion.
		hard, damp to moist, brown SANDY CLAYEY SILT trace gravel (TILL)	0.5	131					2		13		Groundwater measured at 5.11 mbgs on May 23, 2018.
			1	130.5	13				3		39		
			1.5	130	39				4		67		
			2	129.5	67				5		84		
			2.5	129	84				6		50/150		
		very dense, moist to wet, grey SAND AND SILT trace gravel, trace clay (TILL)	3	128.5					7		73		
			3.5	128					8		8		
			4	127.5					9		10		
		very dense, wet, grey SILTY SAND trace gravel	4.5	127	50/150				8		8		
			5	126.5					7		73		
			5.5	126					8		50/125		Bentonite
			6	125.5									
			6.5	125	73								
			7	124.5									
			7.5	124	50/125				8		50/125		
			8	123.5									
			8.5	123									sand
			9	122.5	50/75				9		50/75		
			9.5	122									sand + screen



LOGGED BY: SA

DRILLING DATE: May 2, 2018

REVIEWED BY: VN

Page 1 of 2

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: MW8D													
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN		ELEV. (m) 131.64													
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:		EASTING:		PROJECT NO.: 18-041											
SAMPLE TYPE		<input type="checkbox"/> AUGER	<input checked="" type="checkbox"/> DRIVEN	<input checked="" type="checkbox"/> CORING	<input type="checkbox"/> DYNAMIC CONE	<input type="checkbox"/> SHELBY	<input type="checkbox"/> SPLIT SPOON										
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)				Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS	
					40	80	120	160	PL	W.C.	LL						
					N-Value (Blows/300mm)												
					20	40	60	80	20	40	60	80					
			10	121.5													Sand + Screen
		very dense, wet, grey GRAVELLY SAND	10.5	121	50/100 ▲				6 ●			10	50/100				
			11	120.5													
			11.5	120													
			12	119.5	50/150 ▲				11 ●			11	50/150				
			12.5	119													
			13	118.5													Augering through rock/ boulder
		very dense, wet, grey SAND AND SILT trace gravel, trace clay (TILL) with occasional sand seams and layers	13.5	118													
			14	117.5	50/275 ▲				13 ●			12	50/275				
			14.5	117													
			15	116.5													
					50/125 ▲				6 ●			13	50/125				POSSIBLE BEDROCK
		END OF BOREHOLE															



LOGGED BY: SA

DRILLING DATE: May 2, 2018

REVIEWED BY: VN

Page 2 of 2

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Augering and Split Spoon		BH No.: MW8S									
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 131.033										
LOCATION: 2660-2680 Brock Road, Pickering, ON		NORTHING:	EASTING:	PROJECT NO.: CA18-041									
SAMPLE TYPE		<input type="checkbox"/> AUGER	<input checked="" type="checkbox"/> DRIVEN	<input checked="" type="checkbox"/> CORING	<input type="checkbox"/> DYNAMIC CONE	<input type="checkbox"/> SHELBY	<input type="checkbox"/> SPLIT SPOON						
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT (N)	Well Construction	REMARKS
					40 80 120 160	PL	W.C.	LL					
					N-Value (Blows/300mm)								
					20 40 60 80	20 40 60 80							
			0	131									Borehole open and dry on completion.
			0.5	130.5									Groundwater was measured at 2.72 m on June 26, 2019.
		Straight auger to 2.28 m	1	130									
			1.5	129.5									
			2	129									Bentonite
			2.5	128.5					1	50/125			Sand
		hard, damp CLAYEY SANDY SILT trace gravel (TILL)	3	128					2	72			
			3.5	127.5									Sand and Screen
			4	127					3	71			
		END OF BOREHOLE											




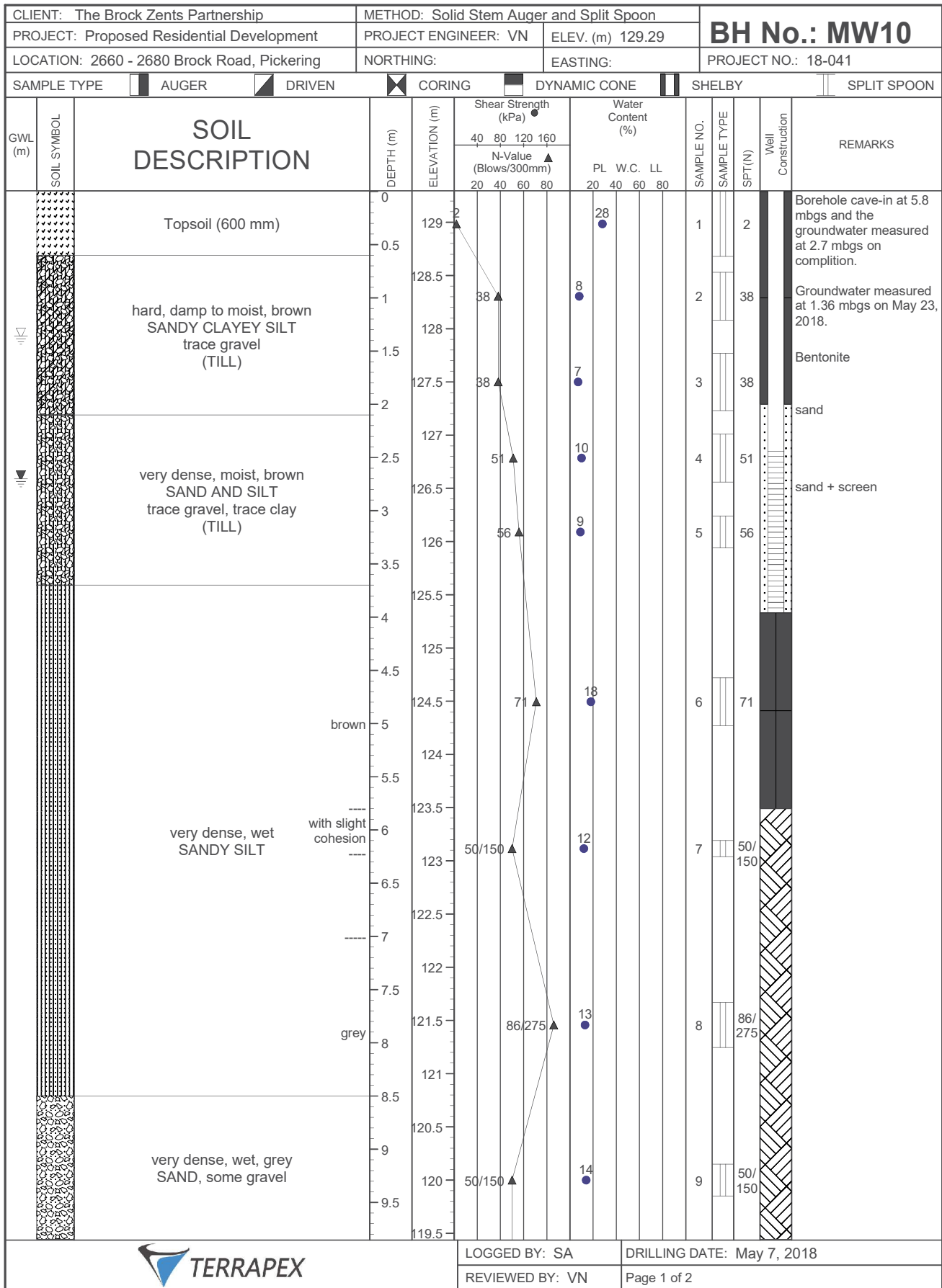
LOGGED BY: LG

DRILLING DATE: June 12, 2019

REVIEWED BY: VN

Page 1 of 1

CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon		BH No.: BH9									
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 130.22										
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:	PROJECT NO.: 18-041									
SAMPLE TYPE		AUGER	DRIVEN	CORING	DYNAMIC CONE	SHELBY	SPLIT SPOON						
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)	Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT (N)	Well Construction	REMARKS
					40 80 120 160	PL	W.C.	LL					
		Topsoil (300 mm)	0	130	3				1		3		Borehole cave-in at 3.35 mbgs and the groundwater measured at 1.5 mbgs on completion.
		soft, dark brown, moist clayey silt, trace gravel trace organics (FILL)	0.5	129.5	19				2A		19		
		hard, damp, brown SANDY CLAYEY SILT trace gravel (TILL) with sand seams and layers	1	129					2B				
			1.5	128.5	32				3		32		
		very dense, wet, brown SILTY SAND with occasional clay layers	2	128					4		46		
			2.5	127.5	46				5		52		
			3	127	52				6		64		
		hard, moist, grey SANDY CLAYEY SILT trace gravel (TILL) with wet sand seams and layers	4	126	64				7		47		
			4.5	125.5	47				8		52		
			5	125					9		69		
		very dense, moist to wet, grey SAND AND SILT trace gravel, trace clay (TILL)	5.5	124.5					10		78		
			6	124	52								
			6.5	123.5									
			7	123									
			7.5	122.5	69								
			8	122									
			8.5	121.5									
			9	121	78								
			9.5										
END OF BOREHOLE													
				LOGGED BY: SA			DRILLING DATE: April 30, 2018						
				REVIEWED BY: VN			Page 1 of 1						



CLIENT: The Brock Zents Partnership		METHOD: Solid Stem Auger and Split Spoon			BH No.: MW10											
PROJECT: Proposed Residential Development		PROJECT ENGINEER: VN	ELEV. (m) 129.29													
LOCATION: 2660 - 2680 Brock Road, Pickering		NORTHING:	EASTING:		PROJECT NO.: 18-041											
SAMPLE TYPE		<input type="checkbox"/> AUGER	<input checked="" type="checkbox"/> DRIVEN	<input checked="" type="checkbox"/> CORING	<input type="checkbox"/> DYNAMIC CONE	<input type="checkbox"/> SHELBY	<input type="checkbox"/> SPLIT SPOON									
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	Shear Strength (kPa)				Water Content (%)			SAMPLE NO.	SAMPLE TYPE	SPT(N)	Well Construction	REMARKS
					N-Value (Blows/300mm)				PL	W.C.	LL					
					40	80	120	160								
		very dense, wet, grey SANDY SILT	10	119												
			10.5													
			11	118.5	50	150			16			10	50/150			
			11.5													
			12	118												
			12.5	117.5												
		very dense, wet, grey SAND AND SILT trace gravel, trace clay (TILL) with sand layers	12	117	50	100			9			11	50/100			
			12.5	116.5												
			13	116												
			13.5	115.5	50	150			11			12	50/150			
		END OF BOREHOLE														



LOGGED BY: SA

DRILLING DATE: May 7, 2018

REVIEWED BY: VN

Page 2 of 2

CLIENT: Patheon Developers(Ontario) Inc.				PROJECT NO.: CT2694.03				RECORD OF: BH201												
ADDRESS: 2660-2680 Brock Rd, Pickering ON																				
CITY/PROVINCE: 2660-2680 Brock Rd, Pickering ON				NORTHING (m): 4860080.93		EASTING (m): 653626.84		ELEV. (m) 129.65												
CONTRACTOR: Pontil				METHOD: Solid Stem Auger and Spilt Spoon																
BOREHOLE DIAMETER (cm): 16.51		WELL DIAMETER (cm):		SCREEN SLOT #:		SAND TYPE:		SEALANT TYPE:												
SAMPLE TYPE		AUGER		DRIVEN		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON								
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS	
					N-VALUE (Blows/300mm)				PL W.C. LL											
		FILL moist, brown clayey silt, trace sand trace rootlets	0	129.5	5								1		37	<5p/0p	PAHs, M&I, PHCs, VOCs			
		stiff to hard moist, brown CLAYEY SANDY SILT trace gravel (TILL)	0.5	129									2A		100	<5p/0p				
			1	128.5	19									2B		100	<5p/0p	Boron		
			1.5	128										3		100	<5p/0p			
			2	127.5	13									4		100	<5p/0p			
		very dense, wet, grey SILTY SAND	2.5	127	35								5		100	<5p/1p				
			3	126.5	44									6		100	<5p/0p			
			4	125.5	67									7		100	<5p/0p			
		very dense, wet, grey SANDY SILT	4.5	125									8		100	<5p/0p				
			5	124.5	75									9		100	<5p/0p			
			5.5	124	75															
		6	123.5																	
		6.5	123	85																
		END OF BOREHOLE																		



LOGGED BY: SJ

DRILLING DATE: 04-Oct-2021

INPUT BY: MW

MONITORING DATE:

REVIEWED BY: VN

PAGE 1 OF 1

CLIENT: Patheon Developers(Ontario) Inc.				PROJECT NO.: CT2694.03				RECORD OF: BH202												
ADDRESS: 2660-2680 Brock Rd, Pickering ON																				
CITY/PROVINCE: 2660-2680 Brock Rd, Pickering ON				NORTHING (m):		EASTING (m):		ELEV. (m)												
CONTRACTOR: Pontil				METHOD:																
BOREHOLE DIAMETER (cm):		WELL DIAMETER (cm):		SCREEN SLOT #:		SAND TYPE:		SEALANT TYPE:												
SAMPLE TYPE		AUGER		DRIVEN		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON								
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS	
					N-VALUE (Blows/300mm)				PL W.C. LL											
					40	80	120	160	20	40	60	80								
		FILL moist, brown clayey silt, trace sand, trace rootlets layer of crushed limestone	0 0.5	12									1		70	<5p/0p	M&I, PAHs			
		FILL moist, light brown silty sand, trace gravel layer of crushed limestone	1	43									2		66	<5p/0p				
		hard, moist, brown CLAYEY SANDY SILT trace gravel (TILL)	1.5 2	42									3A		100	<5p/0p	BTEX F1-F4			
			2										3B		100	<5p/1p				
			2.5										4		100	<5p/0p				
			3										5		100	<5p/0p				
			3.5										6		100	<5p/0p	pH, VOCs, PHCs, PAHs			
			4										7		100	<5p/0p				
		dense to very dense wet, brown SAND	4.5 5	42									8		100	<5p/0p				
			5.5										9		100	<5p/0p				
			6																	
		very dense, wet, grey SANDY SILT	6																	
			6.5																	
		END OF BOREHOLE																		
												LOGGED BY: SJ				DRILLING DATE: 04-Oct-2021				
												INPUT BY: MW				MONITORING DATE:				
												REVIEWED BY: VN				PAGE 1 OF 1				

CLIENT: Patheon Developers(Ontario) Inc.				PROJECT NO.: CT2694.03				RECORD OF: MW203											
ADDRESS: 2660-2680 Brock Rd, Pickering ON																			
CITY/PROVINCE: 2660-2680 Brock Rd, Pickering ON				NORTHING (m): 4860130.02				EASTING (m): 653584.45		ELEV. (m) 131.61									
CONTRACTOR: Pontil						METHOD: Solid Stem Auger and Spilt Spoon													
BOREHOLE DIAMETER (cm): 12.7			WELL DIAMETER (cm): 5.08			SCREEN SLOT #: 10		SAND TYPE: Silica #2		SEALANT TYPE: bentonite									
SAMPLE TYPE		AUGER		DRIVEN		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
		TOPSOIL 70mm	0	131.5	13								1A	65	<5p/1p				Borehole dry at completion
		SAND AND GRAVEL 100mm			13								1B	100	<5p/1p	PAHs			
		FILL moist, brown clayey sandy silt, trace gravel	0.5	131															
		very stiff to hard moist, brown CLAYEY SANDY SILT trace gravel (TILL)	1	130.5	16								2	100	<5p/1p	M&I			
			1.5	130									3	100	<5p/0p				
			2	129.5	35														
			2.5	129	36								4	100	<5p/1p	BTEX, PHCs			
			3	128.5															
		dense to very dense moist, brown SILTY SAND	3.5	128	39								5	100	<5p/0p				
			4	127.5									6A	100	<5p/1p				
		very dense to dense moist, grey SANDY SILT trace clay, trace gravel (TILL)	4.5	127	87/6"								6B	100	<5p/1p				
			5	126.5	50								7	100	<5p/0p	PAHs, PHCs, VOCs, pH			
			5.5	126	46								8	100	<5p/1p				
			6	125.5															
			6.5	125	48								9	100	<5p/1p				
		END OF BOREHOLE																	



LOGGED BY: SJ


DRILLING DATE: 05-Oct-2021

INPUT BY: MW

MONITORING DATE: 27-Oct-21

REVIEWED BY: VN

PAGE 1 OF 1

CLIENT: Patheon Developers(Ontario) Inc.				PROJECT NO.: CT2694.03				RECORD OF: BH204											
ADDRESS: 2660-2680 Brock Rd, Pickering ON																			
CITY/PROVINCE: 2660-2680 Brock Rd, Pickering ON				NORTHING (m): 4860198.21		EASTING (m): 653566.49		ELEV. (m) 131.08											
CONTRACTOR: Pontil				METHOD: Solid Stem Auger and Spite Spoon															
BOREHOLE DIAMETER (cm): -		WELL DIAMETER (cm):		SCREEN SLOT #:		SAND TYPE:		SEALANT TYPE:											
SAMPLE TYPE		AUGER		DRIVEN		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
		TOPSOIL 100mm FILL	0	131	4								1	98	<5p/0p			Borehole dry at completion	
		loose, moist, brown sandy silt	0.5	130.5									2	98	<5p/1p	PAHs, M&I, PHCs, VOCs			
		very stiff to hard moist, brown CLAYEY SANDY SILT trace gravel (TILL)	1	130	27								3	98	<5p/1p				
			1.5	129.5	33								4	98	<5p/1p				
			2	129									5	98	<5p/1p				
			2.5	128.5	57								6	100	<5p/1p				
			3	128									7	100	<5p/1p				
			3.5	127.5	43								8	100	<5p/1p				
		very dense, moist, grey SANDY SILT trace clay, trace gravel (TILL)	4	127	77								9	100	<5p/1p				
			4.5	126.5															
			5	126	88/6"														
			5.5	125.5	85/6"														
			6	125															
			6.5	124.5	88/6"														
		END OF BOREHOLE																	
												LOGGED BY: SJ		DRILLING DATE: 05-Oct-2021					
												INPUT BY: MW		MONITORING DATE:					
												REVIEWED BY: VN		PAGE 1 OF 1					

CLIENT: Patheon Developers(Ontario) Inc.				PROJECT NO.: CT2694.03				RECORD OF: BH205												
ADDRESS: 2660-2680 Brock Rd, Pickering ON																				
CITY/PROVINCE: 2660-2680 Brock Rd, Pickering ON				NORTHING (m): 4860175.78		EASTING (m): 653592.76		ELEV. (m) 130.07												
CONTRACTOR: Pontil				METHOD: Solid Stem Auger and Spilt Spoon																
BOREHOLE DIAMETER (cm): 16.51		WELL DIAMETER (cm):		SCREEN SLOT #:		SAND TYPE:		SEALANT TYPE:												
SAMPLE TYPE		AUGER		DRIVEN		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON								
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS	
					N-VALUE (Blows/300mm)				PL W.C. LL											
		TOPSOIL 100mm	0	130																
		FILL firm, moist, dark brown sandy clayey silt	0.5	129.5	7								1	49	5p/0p		PHCs, VOCs		Borehole dry at completion	
		FILL compact, moist, brown sand, trace gravel	1	129	16								2	65	<5p/0p		PAHs, M&I			
		hard, moist, brown CLAYEY SANDY SILT, tr. gravel (TILL)	1.5	128.5	35								3A	98	<5p/1p					
		dense to very dense moist, brown GRAVELLY SAND	2	128									3B		<5p/1p					
		very dense, moist, brown SANDY SILT trace clay, trace gravel (TILL)	2.5	127.5	76								4	92	5p/1p					
		hard, moist, grey CLAYEY SANDY SILT trace gravel (TILL)	3.5	126.5	52								5	50	5p/1p					
		dense to very dense wet, grey SANDY SILT trace clay, trace gravel (TILL)	4	126	84/6"								6	100	<5p/1p					
		END OF BOREHOLE	4.5	125.5	92/6"								7	100	<5p/0p					
			5.5	124.5	43								8	100	<5p/0p					
			6	124																
			6.5	123.5	71								9	100	5p/1p					



LOGGED BY: SJ

DRILLING DATE: 04/5-Oct-2021

INPUT BY: MW

MONITORING DATE:

REVIEWED BY: VN

PAGE 1 OF 1

CLIENT: Patheon Developers(Ontario) Inc.				PROJECT NO.: CT2694.03				RECORD OF: MW206											
ADDRESS: 2660-2680 Brock Rd, Pickering ON																			
CITY/PROVINCE: 2660-2680 Brock Rd, Pickering ON				NORTHING (m): 4860163.27		EASTING (m): 653631.28		ELEV. (m) 130.56											
CONTRACTOR: Pontil				METHOD: Solid Stem Auger and Spilt Spoon															
BOREHOLE DIAMETER (cm): 12.7		WELL DIAMETER (cm): 5.08		SCREEN SLOT #: 10		SAND TYPE: Silica #2		SEALANT TYPE: Bentonite											
SAMPLE TYPE		AUGER		DRIVEN		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
		TOPSOIL 70mm	0	130.5	▲								1A	98	<5p/1p		PHCs, VOCs		
		FILL, moist, brown, sand and gravel			▲								1B		<5p/1p		M&I, PAHs		
		FILL, moist, brown, clayey silty sand trace rootlets	0.5	130															
		compact, moist, brown SANDY SILT	1	129.5	▲								2	100	<5p/1p				
			1.5	129															
			2	128.5	▲								3	100	<5p/1p				
		very stiff, moist, brown CLAYEY SANDY SILT trace gravel (TILL)	2.5	128	▲								4	66	<5p/1p				
		very dense, moist, grey SANDY SILT occasional layers of clayey silt	3	127.5															
			3.5	127									5	83	<5p/1p				
			4	126.5									6	100	<5p/1p				
			4.5	126															
			5	125.5									7	100	<5p/1p				
			5.5	125									8	100	<5p/1p				
			6	124.5															
		END OF BOREHOLE																	



LOGGED BY: SJ

DRILLING DATE: 05-Oct-2021

INPUT BY: MW

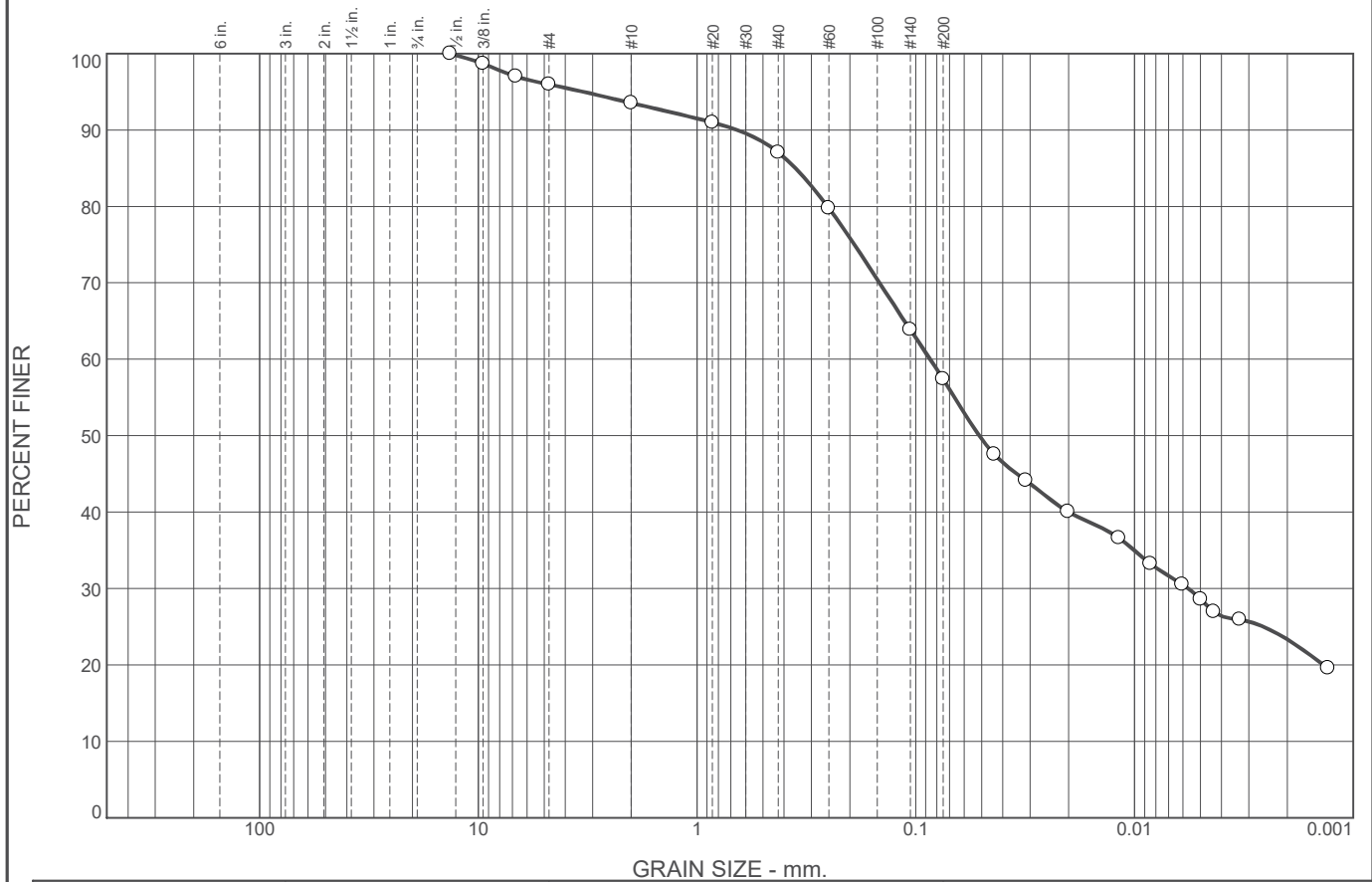
MONITORING DATE: 27-Oct-21

REVIEWED BY: VN

PAGE 1 OF 1

APPENDIX IV
GRAIN SIZE ANALYSES

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.0	2.5	6.5	29.6	34.1	23.3

LL	PL	D85	D60	D50	D30	D15	D10	C _c	C _u
		0.3551	0.0859	0.0512	0.0057				

Material Description	USCS	AASHTO
○ CLAYEY SILT and SAND, trace Gravel		

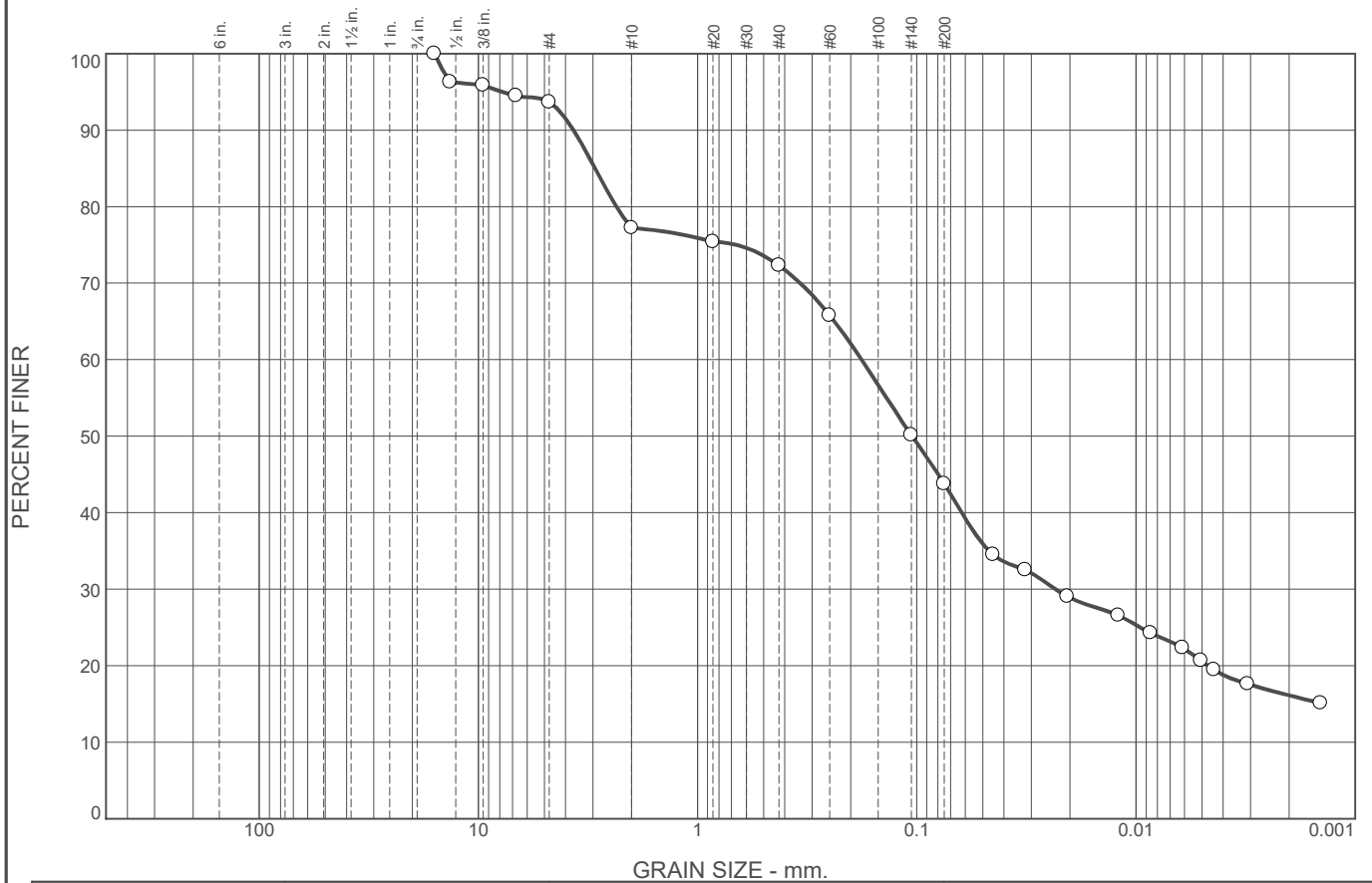
Project No. 18-041 Client: The Brock Zents Partnership Project: 2660 - 2680 Brock road, Pickering ○ Sample Number: MW1, Sample 4	Remarks:
--	-----------------------------

alston associates inc.
consulting engineers

Figure D-1

Tested By: VP **Checked By:** DM

Particle Size Distribution Report



%	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.3	16.5	4.9	28.5	27.7	16.1

LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		2.9366	0.1786	0.1052	0.0233				

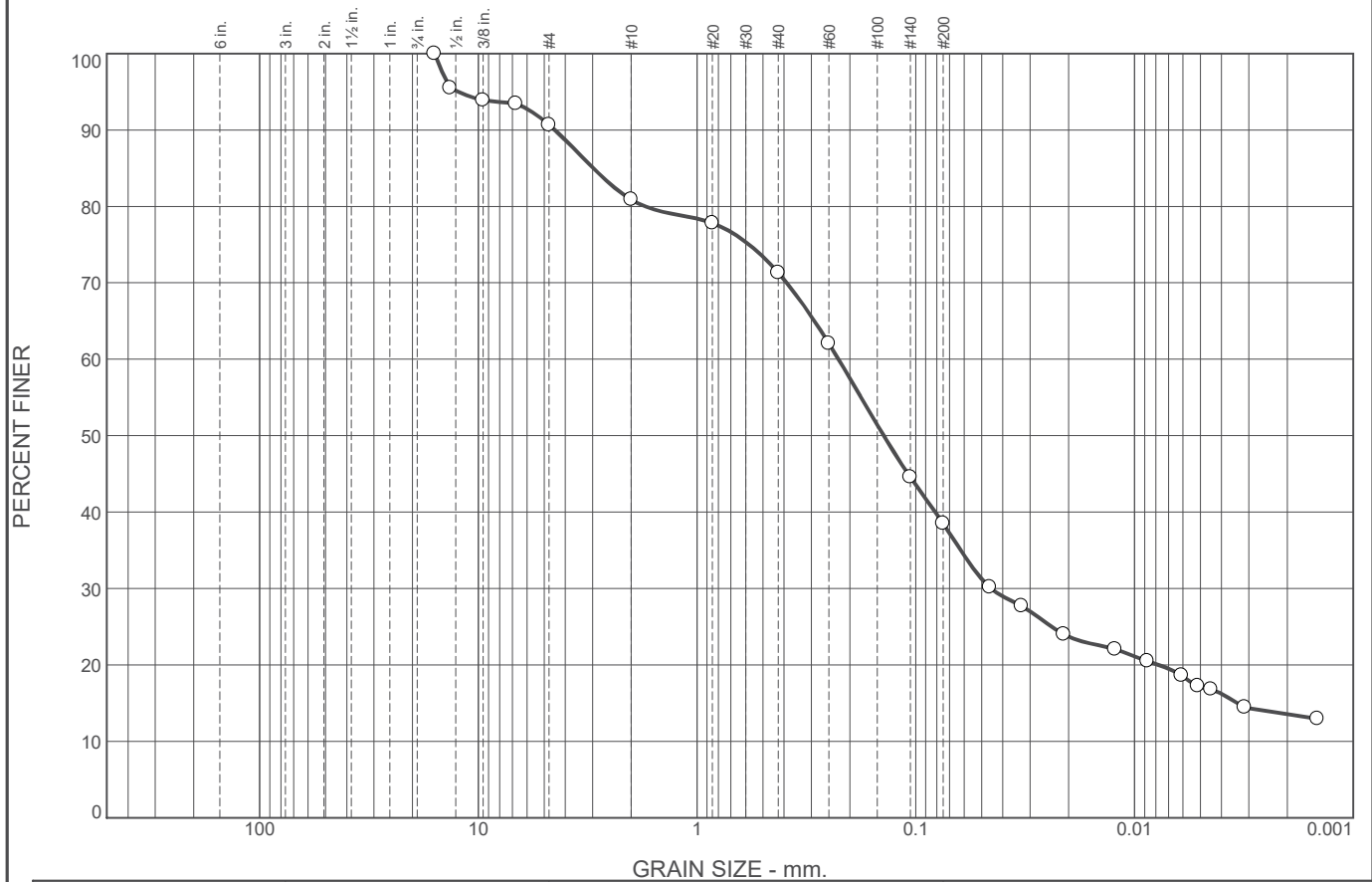
Material Description	USCS	AASHTO
○ SILTY SAND, some Clay, trace Gravel		

<p>Project No. 18-041 Client: The Brock Zents Partnership</p> <p>Project: 2660 - 2680 Brock road, Pickering</p> <p>○ Sample Number: MW5, Sample 6</p>	<p>Remarks:</p>
<p>alston associates inc. consulting engineers</p>	

Figure D-2

Tested By: VP **Checked By:** DM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	9.3	9.8	9.6	32.8	24.9	13.6

LL	PL	D85	D60	D50	D30	D15	D10	C _c	C _u
		2.9816	0.2258	0.1401	0.0452	0.0034			

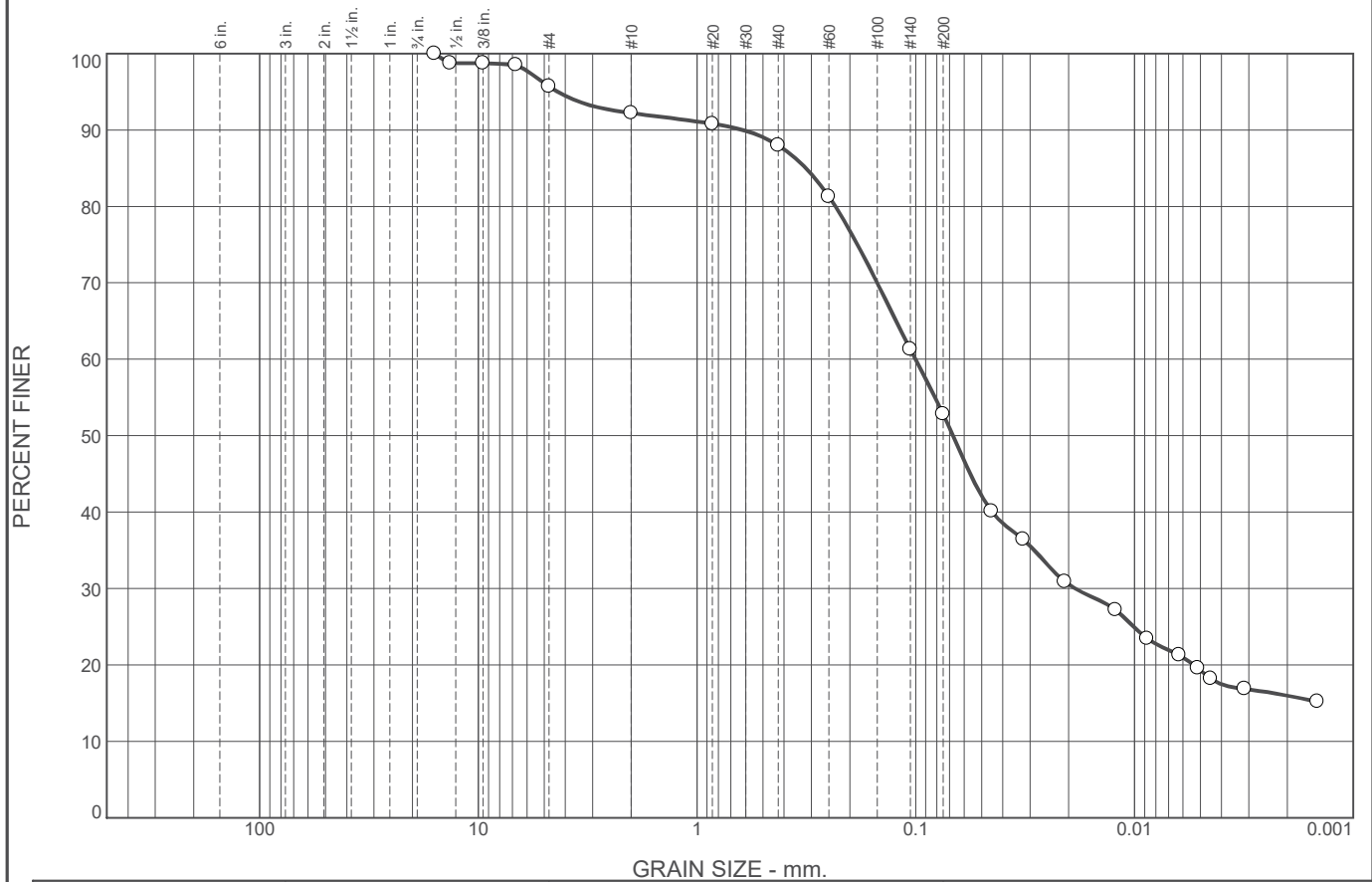
Material Description	USCS	AASHTO
○ SILTY SAND, some Clay, trace Gravel		

<p>Project No. 18-041 Client: The Brock Zents Partnership</p> <p>Project: 2660 - 2680 Brock road, Pickering</p> <p>○ Sample Number: BH6, Sample 7</p>	<p>Remarks:</p>
<p>alston associates inc. consulting engineers</p>	

Figure D-3

Tested By: VP **Checked By:** DM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.3	3.5	4.2	35.2	36.8	16.0

LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
		0.3183	0.1003	0.0676	0.0187				

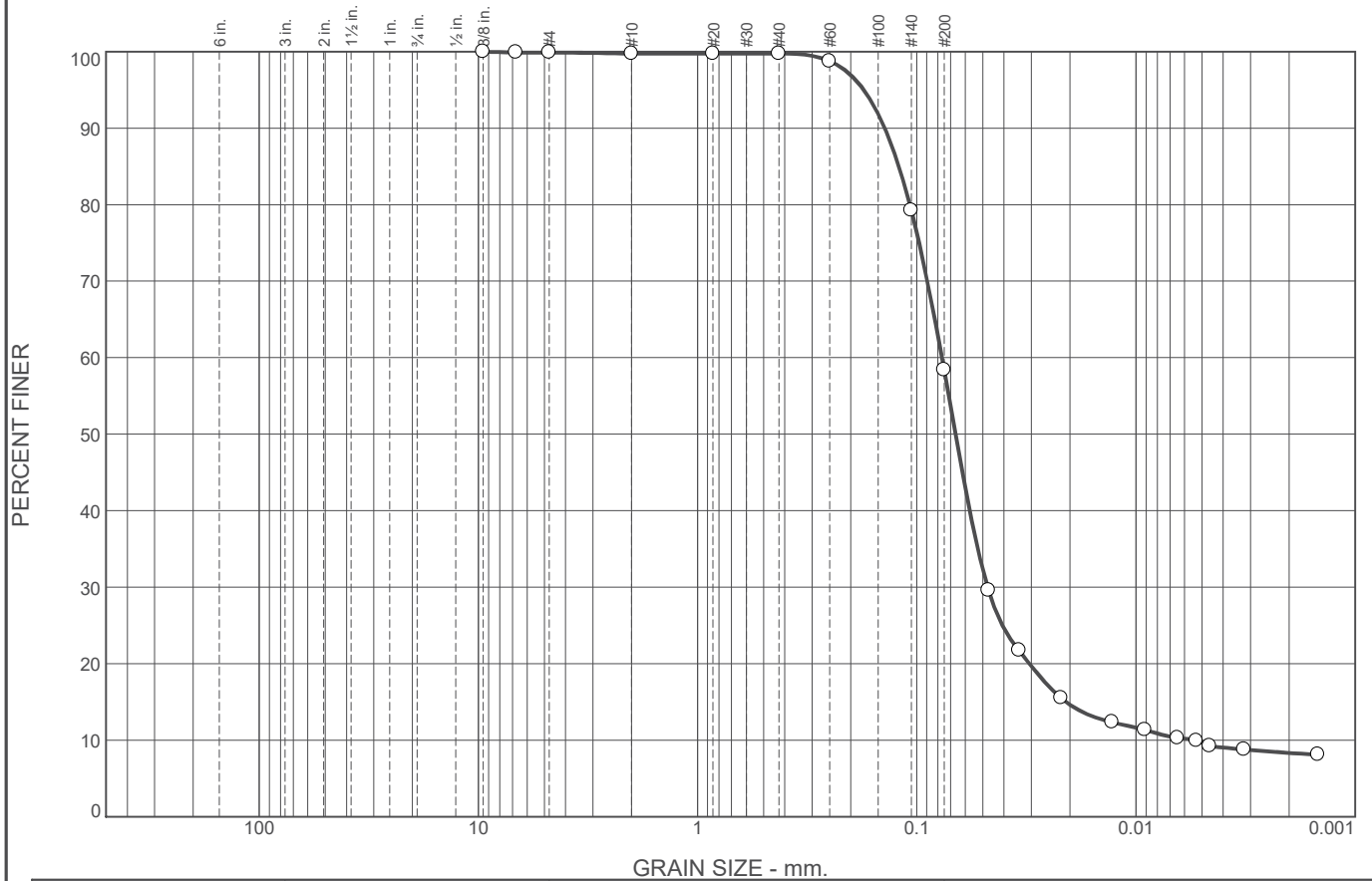
Material Description	USCS	AASHTO
○ SAND and SILT, some Clay, trace Gravel		

<p>Project No. 18-041 Client: The Brock Zents Partnership</p> <p>Project: 2660 - 2680 Brock road, Pickering</p> <p>○ Sample Number: BH9, Sample 8</p>	<p>Remarks:</p>
<p>alston associates inc. consulting engineers</p>	

Figure D-4

Tested By: VP **Checked By:** DM

Particle Size Distribution Report



%	#3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.1	0.2	0.0	41.3	50.1	8.3

LL	PL	D85	D60	D50	D30	D15	D10	C _c	C _u
○		0.1208	0.0768	0.0665	0.0476	0.0209	0.0054	5.46	14.22

Material Description	USCS	AASHTO
○ SILT and SAND, trace Clay		

<p>Project No. 18-041 Client: The Brock Zents Partnership</p> <p>Project: 2660 - 2680 Brock road, Pickering</p> <p>○ Sample Number: MW4, Sample 5</p>	<p>Remarks:</p>
<p>alston associates inc. consulting engineers</p>	

Figure D-5

Tested By: VP **Checked By:** DM

Particle Size Distribution Report



%	+3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.1	79.7	20.2	

LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
○		0.1580	0.1175	0.1064	0.0860	0.0671	0.0557	1.13	2.11

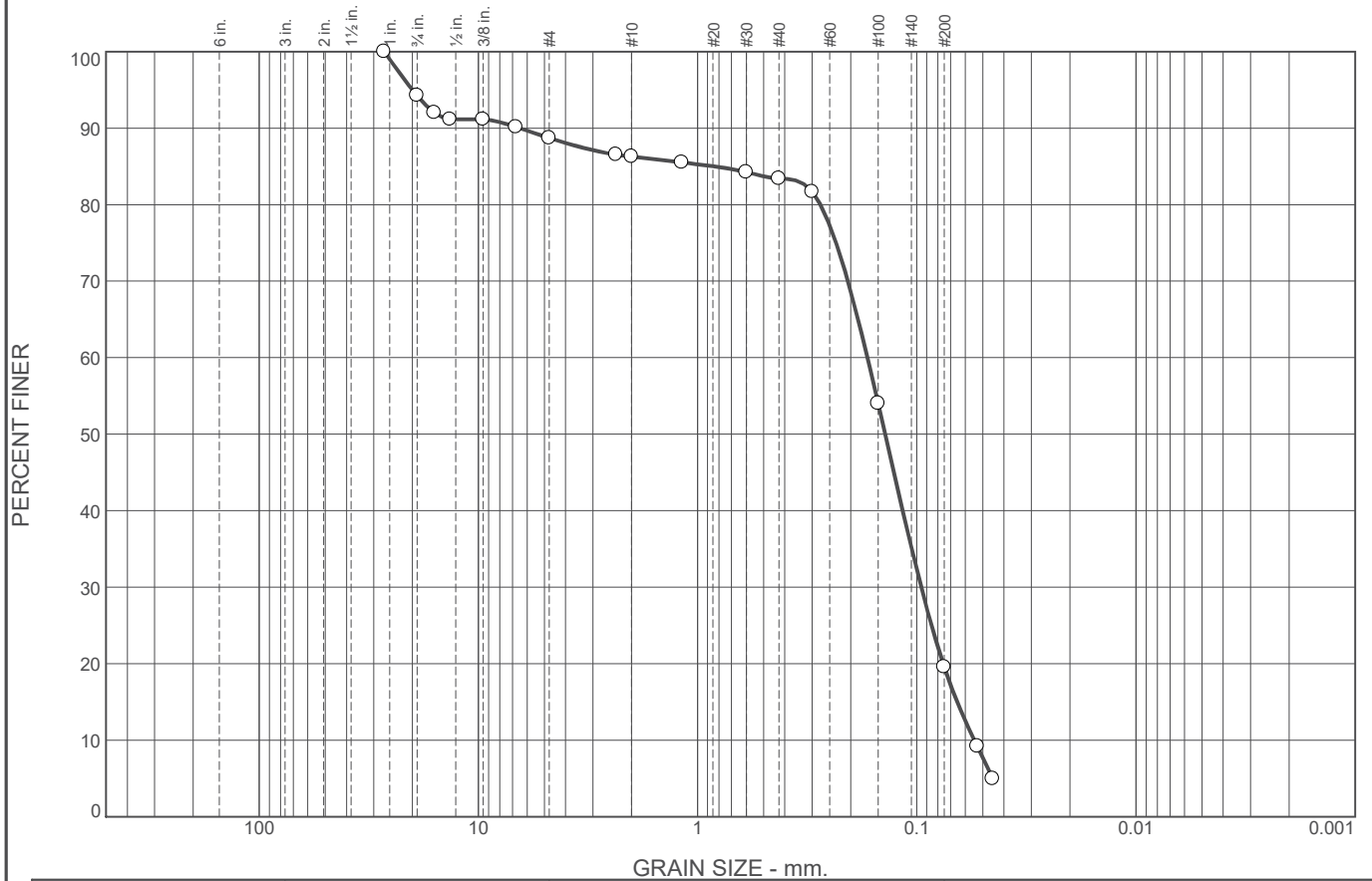
Material Description	USCS	AASHTO
○ SILTY SAND		

<p>Project No. 18-041 Client: The Brock Zents Partnership</p> <p>Project: 2660 - 2680 Brock road, Pickering</p> <p>○ Sample Number: BH7, Sample 7</p>	<p>Remarks:</p>
<p>alston associates inc. consulting engineers</p>	

Figure D-6

Tested By: VP **Checked By:** DM

Particle Size Distribution Report



%	+3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	5.7	5.6	2.4	2.9	63.8	19.6	

	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
○			0.8440	0.1679	0.1393	0.0954	0.0654	0.0547	0.99	3.07

Material Description	USCS	AASHTO
○ SILTY SAND, some Gravel		

<p>Project No. 18-041 Client: The Brock Zents Partnership</p> <p>Project: 2660 - 2680 Brock road, Pickering</p> <p>○ Sample Number: MW8, Sample 9</p>	<p>Remarks:</p>
<p>alston associates inc. consulting engineers</p>	

Figure D-7

Tested By: VP **Checked By:** DM

APPENDIX V
LABORATORY CERTIFICATES OF ANALYSES



TRUSTED.
RESPONSIVE.
RELIABLE.

351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 53221, 53222, 53223

Report Date: 26-Oct-2021
Order Date: 7-Oct-2021

Revised Report
Order #: 2141488

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

Parcel ID	Client ID	Parcel ID	Client ID
2141488-01	MW203-1B	2141488-22	BH201-2B
2141488-02	MW203-2	2141488-23	Field Blank
2141488-03	MW203-4		
2141488-04	MW203-7		
2141488-06	MW2002		
2141488-07	BH204-1		
2141488-09	BH205-1		
2141488-12	BH2006		
2141488-13	BH202-1		
2141488-14	BH202-3A		
2141488-15	BH202-6		
2141488-17	BH2001		
2141488-18	MW206-1A		
2141488-19	MW206-1B		
2141488-21	BH201-1		

Alex Enfield, MSc
Lab Manager

Approved By:

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	14-Oct-21	14-Oct-21
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	12-Oct-21	13-Oct-21
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	12-Oct-21	14-Oct-21
Conductivity	MOE E3138 - probe @25 °C, water ext	14-Oct-21	14-Oct-21
Cyanide, free	MOE E3015 - Auto Colour, water extraction	12-Oct-21	12-Oct-21
Mercury by CVAA	EPA 7471B - CVAA, digestion	14-Oct-21	14-Oct-21
PHC F1	CWS Tier 1 - P&T GC-FID	12-Oct-21	13-Oct-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	12-Oct-21	14-Oct-21
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	14-Oct-21	14-Oct-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	12-Oct-21	13-Oct-21
REG 153: pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	14-Oct-21	14-Oct-21
REG 153: PHC F4(g)	CWS Tier 1 - Extraction Gravimetric	14-Oct-21	14-Oct-21
REG 153: VOCs by P&T GC-MS	EPA 8260 - P&T GC-MS	12-Oct-21	21-Oct-21
SAR	Calculated	14-Oct-21	14-Oct-21
Solids, %	Gravimetric, calculation	12-Oct-21	13-Oct-21

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Residential
BH201-1	Boron, available	0.5 ug/g	4.5	(1.5) ug/g

Client ID: Sample Date: Sample ID: Matrix:	MW203-1B 05-Oct-2021 2141488-01 Soil	MW203-2 05-Oct-2021 2141488-02 Soil	MW203-4 05-Oct-2021 2141488-03 Soil	MW203-7 05-Oct-2021 2141488-04 Soil	Criteria: Reg 153/04 (2011)-Table 2 Residential					
						MDL/Units				
						0.1 % by Wt.				

Physical Characteristics

% Solids	90.1	89.9	87.8	92.1	
SAR	0.01 N/A	0.42	-	-	(5) N/A
Conductivity	5 uS/cm	132	-	-	(0.7) mS/cm
Cyanide, free	0.03 ug/g	<0.03	-	-	(0.051) ug/g
pH	0.05 pH Units	7.57	-	7.73	(5 - 9) pH units

Metals

Antimony	1.0 ug/g	<1.0	-	-	(7.5) ug/g
Arsenic	1.0 ug/g	1.5	-	-	(18) ug/g
Barium	1.0 ug/g	41.7	-	-	(390) ug/g
Beryllium	0.5 ug/g	<0.5	-	-	(5) ug/g
Boron	5.0 ug/g	6.1	-	-	(120) ug/g
Boron, available	0.5 ug/g	1.0	-	-	(1.5) ug/g
Cadmium	0.5 ug/g	<0.5	-	-	(1.2) ug/g
Chromium	5.0 ug/g	10.8	-	-	(160) ug/g
Chromium (VI)	0.2 ug/g	<0.2	-	-	(10) ug/g
Cobalt	1.0 ug/g	3.9	-	-	(22) ug/g
Copper	5.0 ug/g	7.7	-	-	(180) ug/g
Lead	1.0 ug/g	2.8	-	-	(120) ug/g
Mercury	0.1 ug/g	<0.1	-	-	(1.8) ug/g
Molybdenum	1.0 ug/g	<1.0	-	-	(6.9) ug/g
Nickel	5.0 ug/g	7.3	-	-	(130) ug/g
Selenium	1.0 ug/g	<1.0	-	-	(2.4) ug/g

	Client ID:				Criteria:	
	Sample Date:	MW203-1B	MW203-2	MW203-4		MW203-7
	Sample ID:	05-Oct-2021 2141488-01	05-Oct-2021 2141488-02	05-Oct-2021 2141488-03		05-Oct-2021 2141488-04
	Matrix:	Soil	Soil	Soil	Soil	
	MDL/Units					
Silver	0.3 ug/g	-	<0.3	-	-	(25) ug/g
Thallium	1.0 ug/g	-	<1.0	-	-	(1) ug/g
Uranium	1.0 ug/g	-	<1.0	-	-	(23) ug/g
Vanadium	10.0 ug/g	-	20.4	-	-	(86) ug/g
Zinc	20.0 ug/g	-	<20.0	-	-	(340) ug/g
Volatiles						
Acetone	0.50 ug/g	-	-	-	<0.50	(28) ug/g
Benzene	0.02 ug/g	-	-	-	<0.02	(0.17) ug/g
Bromodichloromethane	0.05 ug/g	-	-	-	<0.05	(1.9) ug/g
Bromoform	0.05 ug/g	-	-	-	<0.05	(0.26) ug/g
Bromomethane	0.05 ug/g	-	-	-	<0.05	(0.05) ug/g
Carbon Tetrachloride	0.05 ug/g	-	-	-	<0.05	(0.12) ug/g
Chlorobenzene	0.05 ug/g	-	-	-	<0.05	(2.7) ug/g
Chloroform	0.05 ug/g	-	-	-	<0.05	(0.18) ug/g
Dibromochloromethane	0.05 ug/g	-	-	-	<0.05	(2.9) ug/g
Dichlorodifluoromethane	0.05 ug/g	-	-	-	<0.05	(25) ug/g
1,2-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	(1.7) ug/g
1,3-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	(6) ug/g
1,4-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	(0.097) ug/g
1,1-Dichloroethane	0.05 ug/g	-	-	-	<0.05	(0.6) ug/g
1,2-Dichloroethane	0.05 ug/g	-	-	-	<0.05	(0.05) ug/g
1,1-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	(0.05) ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	(2.5) ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	(0.75) ug/g

	Client ID:				MDL/Units	Criteria:
	Sample Date:					
	Sample ID:					
	MW203-1B 05-Oct-2021 2141488-01 Soil	MW203-2 05-Oct-2021 2141488-02 Soil	MW203-4 05-Oct-2021 2141488-03 Soil	MW203-7 05-Oct-2021 2141488-04 Soil		Reg 153/04 (2011)-Table 2 Residential
1,2-Dichloropropane	-	-	-	-	0.05 ug/g	(0.085) ug/g
cis-1,3-Dichloropropylene	-	-	-	-	0.05 ug/g	
trans-1,3-Dichloropropylene	-	-	-	-	0.05 ug/g	
1,3-Dichloropropene, total	-	-	-	-	0.05 ug/g	(0.081) ug/g
Ethylbenzene	-	-	-	-	0.05 ug/g	(1.6) ug/g
Ethylene dibromide (dibromoethane)	-	-	-	-	0.05 ug/g	(0.05) ug/g
Hexane	-	-	-	-	0.05 ug/g	(34) ug/g
Methyl Ethyl Ketone (2-Butanone)	-	-	-	-	0.50 ug/g	(44) ug/g
Methyl Isobutyl Ketone	-	-	-	-	0.50 ug/g	(4.3) ug/g
Methyl tert-butyl ether	-	-	-	-	0.05 ug/g	(1.4) ug/g
Methylene Chloride	-	-	-	-	0.05 ug/g	(0.96) ug/g
Styrene	-	-	-	-	0.05 ug/g	(2.2) ug/g
1,1,1,2-Tetrachloroethane	-	-	-	-	0.05 ug/g	(0.05) ug/g
1,1,2,2-Tetrachloroethane	-	-	-	-	0.05 ug/g	(0.05) ug/g
Tetrachloroethylene	-	-	-	-	0.05 ug/g	(2.3) ug/g
Toluene	-	-	-	-	0.05 ug/g	(6) ug/g
1,1,1-Trichloroethane	-	-	-	-	0.05 ug/g	(3.4) ug/g
1,1,2-Trichloroethane	-	-	-	-	0.05 ug/g	(0.05) ug/g
Trichloroethylene	-	-	-	-	0.05 ug/g	(0.52) ug/g
Trichlorofluoromethane	-	-	-	-	0.05 ug/g	(5.8) ug/g
Vinyl chloride	-	-	-	-	0.02 ug/g	(0.022) ug/g
m,p-Xylenes	-	-	-	-	0.05 ug/g	
o-Xylene	-	-	-	-	0.05 ug/g	

	Client ID:				Criteria:
	Sample Date:				
	Sample ID:				
	MW203-1B 05-Oct-2021 2141488-01	MW203-2 05-Oct-2021 2141488-02	MW203-4 05-Oct-2021 2141488-03	MW203-7 05-Oct-2021 2141488-04	Reg 153/04 (2011)-Table 2 Residential
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					
Xylenes, total	0.05 ug/g	-	-	<0.05	(25) ug/g
4-Bromofluorobenzene	Surrogate	-	-	102%	
Dibromofluoromethane	Surrogate	-	-	94.7%	
Toluene-d8	Surrogate	-	-	104%	
Benzene	0.02 ug/g	-	<0.02	-	(0.17) ug/g
Ethylbenzene	0.05 ug/g	-	<0.05	-	(1.6) ug/g
Toluene	0.05 ug/g	-	<0.05	-	(6) ug/g
m,p-Xylenes	0.05 ug/g	-	<0.05	-	
o-Xylene	0.05 ug/g	-	<0.05	-	
Xylenes, total	0.05 ug/g	-	<0.05	-	(25) ug/g
Toluene-d8	Surrogate	-	104%	-	
Hydrocarbons					
F1 PHCs (C6-C10)	7 ug/g	-	<7	<7	(65) ug/g
F2 PHCs (C10-C16)	4 ug/g	-	<4	<4	(150) ug/g
F3 PHCs (C16-C34)	8 ug/g	-	<8	<8	(1,300) ug/g
F4 PHCs (C34-C50)	6 ug/g	-	<6	<6	(5,600) ug/g
Semi-Volatiles					
Acenaphthene	0.02 ug/g	<0.02	-	<0.02	(29) ug/g
Acenaphthylene	0.02 ug/g	<0.02	-	<0.02	(0.17) ug/g
Anthracene	0.02 ug/g	<0.02	-	<0.02	(0.74) ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	-	<0.02	(0.63) ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	-	<0.02	(0.3) ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	<0.02	(0.78) ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	<0.02	(7.8) ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	<0.02	(0.78) ug/g

	Client ID:				Criteria:
	Sample Date:	Sample ID:	Matrix:	MDL/Units	
	MW203-1B 05-Oct-2021 2141488-01 Soil	MW203-2 05-Oct-2021 2141488-02 Soil	MW203-4 05-Oct-2021 2141488-03 Soil	MW203-7 05-Oct-2021 2141488-04 Soil	
Chrysene	0.02 ug/g	<0.02	-	<0.02	(7.8) ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	<0.02	(0.1) ug/g
Fluoranthene	0.02 ug/g	<0.02	-	<0.02	(0.69) ug/g
Fluorene	0.02 ug/g	<0.02	-	<0.02	(69) ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	<0.02	(0.48) ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	(3.4) ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	(3.4) ug/g
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	-	<0.03	(3.4) ug/g
Naphthalene	0.01 ug/g	<0.01	-	<0.01	(0.75) ug/g
Phenanthrene	0.02 ug/g	<0.02	-	<0.02	(7.8) ug/g
Pyrene	0.02 ug/g	<0.02	-	<0.02	(78) ug/g
2-Fluorobiphenyl	Surrogate	90.2%	-	89.8%	
Terphenyl-d14	Surrogate	105%	-	100%	

Client ID:		BH2002		BH204-1		BH205-1		BH2006	
Sample Date:		05-Oct-2021		05-Oct-2021		05-Oct-2021		05-Oct-2021	
Sample ID:		2141488-06		2141488-07		2141488-09		2141488-12	
Matrix:		Soil		Soil		Soil		Soil	
MDL/Units									

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics		92.0		86.0		80.5		97.0	
% Solids		0.1 % by Wt.							
General Inorganics									
SAR	0.01 N/A	-	-	-	-	-	-	0.12	(5) N/A
Conductivity	5 uS/cm	-	-	-	-	-	-	86	(0.7) mS/cm
Cyanide, free	0.03 ug/g	-	-	-	-	-	-	<0.03	(0.051) ug/g
pH	0.05 pH Units	-	-	-	-	-	-	7.78	(5 - 9) pH units
Metals									
Antimony	1.0 ug/g	-	-	-	-	-	-	<1.0	(7.5) ug/g
Arsenic	1.0 ug/g	-	-	-	-	-	-	<1.0	(18) ug/g
Barium	1.0 ug/g	-	-	-	-	-	-	11.8	(390) ug/g
Beryllium	0.5 ug/g	-	-	-	-	-	-	<0.5	(5) ug/g
Boron	5.0 ug/g	-	-	-	-	-	-	<5.0	(120) ug/g
Boron, available	0.5 ug/g	-	-	-	-	-	-	1.3	(1.5) ug/g
Cadmium	0.5 ug/g	-	-	-	-	-	-	<0.5	(1.2) ug/g
Chromium	5.0 ug/g	-	-	-	-	-	-	<5.0	(160) ug/g
Chromium (VI)	0.2 ug/g	-	-	-	-	-	-	<0.2	(10) ug/g
Cobalt	1.0 ug/g	-	-	-	-	-	-	1.3	(22) ug/g
Copper	5.0 ug/g	-	-	-	-	-	-	<5.0	(180) ug/g
Lead	1.0 ug/g	-	-	-	-	-	-	1.5	(120) ug/g
Mercury	0.1 ug/g	-	-	-	-	-	-	<0.1	(1.8) ug/g
Molybdenum	1.0 ug/g	-	-	-	-	-	-	<1.0	(6.9) ug/g
Nickel	5.0 ug/g	-	-	-	-	-	-	<5.0	(130) ug/g
Selenium	1.0 ug/g	-	-	-	-	-	-	<1.0	(2.4) ug/g

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

 Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03

	Client ID:				Matrix:	Criteria:
	Sample Date:	BH204-1	BH205-1	BH2006		
	Sample ID:	05-Oct-2021 2141488-07	05-Oct-2021 2141488-09	05-Oct-2021 2141488-12		
	MW2002	Soil	Soil	Soil	Soil	Reg 153/04 (2011)-Table 2 Residential
	05-Oct-2021 2141488-06	Soil	Soil	Soil	Soil	
	MDL/Units					
Silver	0.3 ug/g	-	-	<0.3	-	(25) ug/g
Thallium	1.0 ug/g	-	-	<1.0	-	(1) ug/g
Uranium	1.0 ug/g	-	-	<1.0	-	(23) ug/g
Vanadium	10.0 ug/g	-	-	<10.0	-	(86) ug/g
Zinc	20.0 ug/g	-	-	<20.0	-	(340) ug/g
Volatiles						
Acetone	0.50 ug/g	<0.50	<0.50 [1]	<0.50 [1]	-	(28) ug/g
Benzene	0.02 ug/g	<0.02	<0.02 [1]	<0.02 [1]	-	(0.17) ug/g
Bromodichloromethane	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(1.9) ug/g
Bromoform	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.26) ug/g
Bromomethane	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.12) ug/g
Chlorobenzene	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(2.7) ug/g
Chloroform	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.18) ug/g
Dibromochloromethane	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(2.9) ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(25) ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(1.7) ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(6) ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.097) ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.6) ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(2.5) ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(0.75) ug/g

	Client ID:				Matrix:	MDL/Units	MW2002 05-Oct-2021 2141488-06 Soil	BH204-1 05-Oct-2021 2141488-07 Soil	BH205-1 05-Oct-2021 2141488-09 Soil	BH2006 05-Oct-2021 2141488-12 Soil	Criteria: Reg 153/04 (2011)-Table 2 Residential
	Sample Date:	Sample ID:	Sample Date:	Sample ID:							
1,2-Dichloropropane	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.085) ug/g
cis-1,3-Dichloropropylene	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	
trans-1,3-Dichloropropylene	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	
1,3-Dichloropropene, total	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.081) ug/g
Ethylbenzene	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(1.6) ug/g
Ethylene dibromide (dibromoethane)	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
Hexane	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(34) ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50 [1]	<0.50 [1]	<0.50	<0.50	<0.50 [1]	<0.50 [1]	<0.50 [1]	-	(44) ug/g
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50 [1]	<0.50 [1]	<0.50	<0.50	<0.50 [1]	<0.50 [1]	<0.50 [1]	-	(4.3) ug/g
Methyl tert-butyl ether	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(1.4) ug/g
Methylene Chloride	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.96) ug/g
Styrene	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(2.2) ug/g
1,1,1,2-Tetrachloroethane	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
1,1,2,2-Tetrachloroethane	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
Tetrachloroethylene	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(2.3) ug/g
Toluene	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(6) ug/g
1,1,1-Trichloroethane	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(3.4) ug/g
1,1,2-Trichloroethane	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
Trichloroethylene	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.52) ug/g
Trichlorofluoromethane	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(5.8) ug/g
Vinyl chloride	0.02 ug/g	<0.02	<0.02 [1]	<0.02 [1]	<0.02	<0.02	<0.02 [1]	<0.02 [1]	<0.02 [1]	-	(0.022) ug/g
m,p-Xylenes	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	
o-Xylene	05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	

	Client ID:				Criteria:	
	Sample Date:	BH2002	BH204-1	BH205-1		BH2006
	Sample ID:	05-Oct-2021 2141488-06	05-Oct-2021 2141488-07	05-Oct-2021 2141488-09		05-Oct-2021 2141488-12
	Matrix:	Soil	Soil	Soil	Soil	Reg 153/04 (2011)-Table 2 Residential
	MDL/Units					
Xylenes, total	0.05 ug/g	<0.05	<0.05 [1]	<0.05 [1]	-	(25)
4-Bromofluorobenzene	Surrogate	102%	91.9% [1]	92.1% [1]	-	
Dibromofluoromethane	Surrogate	95.4%	90.7% [1]	90.2% [1]	-	
Toluene-d8	Surrogate	103%	102% [1]	102% [1]	-	
Hydrocarbons						
F1 PHCs (C6-C10)	7 ug/g	<7	<7 [1]	<7 [1]	-	(65)
F2 PHCs (C10-C16)	4 ug/g	<4	<4 [1]	<4 [1]	-	(150)
F3 PHCs (C16-C34)	8 ug/g	<8	<8 [1]	30 [1]	-	(1,300)
F4 PHCs (C34-C50)	6 ug/g	<6	<6 [1]	<6 [1]	-	(5,600)
Semi-Volatiles						
Acenaphthene	0.02 ug/g	<0.02	-	-	-	(29)
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	(0.17)
Anthracene	0.02 ug/g	<0.02	-	-	-	(0.74)
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	(0.63)
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	(0.3)
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	(0.78)
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	(7.8)
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	(0.78)
Chrysene	0.02 ug/g	<0.02	-	-	-	(7.8)
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	(0.1)
Fluoranthene	0.02 ug/g	<0.02	-	-	-	(0.69)
Fluorene	0.02 ug/g	<0.02	-	-	-	(69)
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	(0.48)
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	(3.4)

Report Date: 26-Oct-2021
Order Date: 7-Oct-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

	Client ID:		Sample Date:	Sample ID:	Matrix:	MDL/Units	MW2002 05-Oct-2021 2141488-06 Soil	BH204-1 05-Oct-2021 2141488-07 Soil	BH205-1 05-Oct-2021 2141488-09 Soil	BH2006 05-Oct-2021 2141488-12 Soil	Criteria:
	Reg 153/04 (2011)-Table 2 Residential										
2-Methylnaphthalene	0.02 ug/g					<0.02	-	-	-		(3.4) ug/g
Methylnaphthalene (1&2)	0.03 ug/g					<0.03	-	-	-		(3.4) ug/g
Naphthalene	0.01 ug/g					<0.01	-	-	-		(0.75) ug/g
Phenanthrene	0.02 ug/g					<0.02	-	-	-		(7.8) ug/g
Pyrene	0.02 ug/g					<0.02	-	-	-		(78) ug/g
2-Fluorobiphenyl	Surrogate					89.3%	-	-	-		
Terphenyl-d14	Surrogate					100%	-	-	-		

Client ID:		BH2001	
Sample Date:		04-Oct-2021	
Sample ID:		2141488-17	
Matrix:		Soil	
MDL/Units			

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics		BH202-1		BH202-3A		BH202-6		BH2001	
0.1 % by Wt.		80.2		91.9		91.0		89.7	
SAR		0.01 N/A		-		-		-	
Conductivity		197		-		-		-	
Cyanide, free		<0.03		-		-		-	
pH		7.23		-		7.65		-	
Metals									
Antimony		1.0 ug/g		<1.0		-		-	
Arsenic		1.0 ug/g		2.4		-		-	
Barium		1.0 ug/g		46.2		-		-	
Beryllium		0.5 ug/g		<0.5		-		-	
Boron		5.0 ug/g		5.5		-		-	
Boron, available		0.5 ug/g		<0.5		-		-	
Cadmium		0.5 ug/g		<0.5		-		-	
Chromium		5.0 ug/g		12.9		-		-	
Chromium (VI)		0.2 ug/g		<0.2		-		-	
Cobalt		1.0 ug/g		4.7		-		-	
Copper		5.0 ug/g		10.0		-		-	
Lead		1.0 ug/g		8.8		-		-	
Mercury		0.1 ug/g		<0.1		-		-	
Molybdenum		1.0 ug/g		<1.0		-		-	
Nickel		5.0 ug/g		9.7		-		-	
Selenium		1.0 ug/g		<1.0		-		-	

	Client ID:				Criteria:					
	Sample Date:		Sample ID:							
	MDL/Units	Matrix:	MDL/Units	Matrix:						
Silver	0.3 ug/g	Soil	<0.3	BH202-1 04-Oct-2021 2141488-13	BH202-3A 04-Oct-2021 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Reg 153/04 (2011)-Table 2 Residential	ug/g	
Thallium	1.0 ug/g	Soil	<1.0					(25)	ug/g	
Uranium	1.0 ug/g	Soil	<1.0					(1)	ug/g	
Vanadium	10.0 ug/g	Soil	24.7					(23)	ug/g	
Zinc	20.0 ug/g	Soil	36.8					(86)	ug/g	
								(340)	ug/g	
Volatiles										
Acetone	0.50 ug/g	Soil	-					<0.50	(28)	ug/g
Benzene	0.02 ug/g	Soil	-					<0.02	(0.17)	ug/g
Bromodichloromethane	0.05 ug/g	Soil	-					<0.05	(1.9)	ug/g
Bromoform	0.05 ug/g	Soil	-					<0.05	(0.26)	ug/g
Bromomethane	0.05 ug/g	Soil	-					<0.05	(0.05)	ug/g
Carbon Tetrachloride	0.05 ug/g	Soil	-					<0.05	(0.12)	ug/g
Chlorobenzene	0.05 ug/g	Soil	-					<0.05	(2.7)	ug/g
Chloroform	0.05 ug/g	Soil	-					<0.05	(0.18)	ug/g
Dibromochloromethane	0.05 ug/g	Soil	-					<0.05	(2.9)	ug/g
Dichlorodifluoromethane	0.05 ug/g	Soil	-					<0.05	(25)	ug/g
1,2-Dichlorobenzene	0.05 ug/g	Soil	-					<0.05	(1.7)	ug/g
1,3-Dichlorobenzene	0.05 ug/g	Soil	-					<0.05	(6)	ug/g
1,4-Dichlorobenzene	0.05 ug/g	Soil	-					<0.05	(0.097)	ug/g
1,1-Dichloroethane	0.05 ug/g	Soil	-					<0.05	(0.6)	ug/g
1,2-Dichloroethane	0.05 ug/g	Soil	-					<0.05	(0.05)	ug/g
1,1-Dichloroethylene	0.05 ug/g	Soil	-					<0.05	(0.05)	ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	Soil	-					<0.05	(2.5)	ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	Soil	-					<0.05	(0.75)	ug/g

	Client ID:				Criteria:
	Sample Date:				
	Sample ID:				
	Matrix:				Reg 153/04 (2011)-Table 2 Residential
	MDL/Units	BH202-1 04-Oct-2021 2141488-13 Soil	BH202-3A 04-Oct-2021 2141488-14 Soil	BH202-6 04-Oct-2021 2141488-15 Soil	
1,2-Dichloropropane	0.05 ug/g	-	-	<0.05	(0.085) ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	-	-	<0.05	
trans-1,3-Dichloropropylene	0.05 ug/g	-	-	<0.05	
1,3-Dichloropropene, total	0.05 ug/g	-	-	<0.05	(0.081) ug/g
Ethylbenzene	0.05 ug/g	-	-	<0.05	(1.6) ug/g
Ethylene dibromide (dibromoethane)	0.05 ug/g	-	-	<0.05	(0.05) ug/g
Hexane	0.05 ug/g	-	-	<0.05	(34) ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	-	<0.50	(44) ug/g
Methyl Isobutyl Ketone	0.50 ug/g	-	-	<0.50	(4.3) ug/g
Methyl tert-butyl ether	0.05 ug/g	-	-	<0.05	(1.4) ug/g
Methylene Chloride	0.05 ug/g	-	-	<0.05	(0.96) ug/g
Styrene	0.05 ug/g	-	-	<0.05	(2.2) ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	-	<0.05	(0.05) ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	-	<0.05	(0.05) ug/g
Tetrachloroethylene	0.05 ug/g	-	-	<0.05	(2.3) ug/g
Toluene	0.05 ug/g	-	-	<0.05	(6) ug/g
1,1,1-Trichloroethane	0.05 ug/g	-	-	<0.05	(3.4) ug/g
1,1,2-Trichloroethane	0.05 ug/g	-	-	<0.05	(0.05) ug/g
Trichloroethylene	0.05 ug/g	-	-	<0.05	(0.52) ug/g
Trichlorofluoromethane	0.05 ug/g	-	-	<0.05	(5.8) ug/g
Vinyl chloride	0.02 ug/g	-	-	<0.02	(0.022) ug/g
m,p-Xylenes	0.05 ug/g	-	-	<0.05	
o-Xylene	0.05 ug/g	-	-	<0.05	

	Client ID:				Criteria:		
	Sample Date:		Sample ID:				
	Matrix:	MDL/Units					
Xylenes, total	0.05 ug/g	-	-	<0.05	(25)	ug/g	
4-Bromofluorobenzene	Surrogate	-	-	102%			
Dibromofluoromethane	Surrogate	-	-	95.3%			
Toluene-d8	Surrogate	-	-	104%			
Benzene	0.02 ug/g	-	<0.02	-	(0.17)	ug/g	
Ethylbenzene	0.05 ug/g	-	<0.05	-	(1.6)	ug/g	
Toluene	0.05 ug/g	-	<0.05	-	(6)	ug/g	
m,p-Xylenes	0.05 ug/g	-	<0.05	-			
o-Xylene	0.05 ug/g	-	<0.05	-			
Xylenes, total	0.05 ug/g	-	<0.05	-	(25)	ug/g	
Toluene-d8	Surrogate	-	104%	-			
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	<7	(65)	ug/g	
F2 PHCs (C10-C16)	4 ug/g	-	<4	<4	(150)	ug/g	
F3 PHCs (C16-C34)	8 ug/g	-	<8	<8	(1,300)	ug/g	
F4 PHCs (C34-C50)	6 ug/g	-	<6	<6	(5,600)	ug/g	
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	<0.02	(29)	ug/g	
Acenaphthylene	0.02 ug/g	<0.02	-	<0.02	(0.17)	ug/g	
Anthracene	0.02 ug/g	<0.02	-	<0.02	(0.74)	ug/g	
Benzo [a] anthracene	0.02 ug/g	0.04	-	<0.02	(0.63)	ug/g	
Benzo [a] pyrene	0.02 ug/g	0.04	-	<0.02	(0.3)	ug/g	
Benzo [b] fluoranthene	0.02 ug/g	0.04	-	<0.02	(0.78)	ug/g	
Benzo [g,h,i] perylene	0.02 ug/g	0.02	-	<0.02	(7.8)	ug/g	
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	<0.02	(0.78)	ug/g	

	Client ID:				Criteria:
	Sample Date:	Sample ID:	Matrix:	MDL/Units	
	Reg 153/04 (2011)-Table 2 Residential				
Chrysene	0.02 ug/g	0.04	-	<0.02	(7.8) ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	<0.02	(0.1) ug/g
Fluoranthene	0.02 ug/g	0.08	-	<0.02	(0.69) ug/g
Fluorene	0.02 ug/g	<0.02	-	<0.02	(69) ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.03	-	<0.02	(0.48) ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	(3.4) ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	(3.4) ug/g
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	-	<0.03	(3.4) ug/g
Naphthalene	0.01 ug/g	<0.01	-	<0.01	(0.75) ug/g
Phenanthrene	0.02 ug/g	<0.02	-	<0.02	(7.8) ug/g
Pyrene	0.02 ug/g	0.06	-	<0.02	(78) ug/g
2-Fluorobiphenyl	Surrogate	84.2%	-	91.2%	
Terphenyl-d14	Surrogate	97.9%	-	104%	

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

 Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03

MDL/Units	Client ID:			
	MW206-1A	MW206-1B	BH201-1	BH201-2B
	05-Oct-2021 2141488-18 Soil	05-Oct-2021 2141488-19 Soil	04-Oct-2021 2141488-21 Soil	04-Oct-2021 2141488-22 Soil
Sample Date:	2141488-18			
Sample ID:	2141488-18			
Matrix:	Soil			
Criteria:	Reg 153/04 (2011)-Table 2 Residential			

Physical Characteristics

% Solids	0.1 % by Wt.	94.5	85.3	80.2	-
SAR	0.01 N/A	-	1.70	0.26	-
Conductivity	5 uS/cm	-	249	156	-
Cyanide, free	0.03 ug/g	-	<0.03	<0.03	-
pH	0.05 pH Units	-	7.38	7.20	-

General Inorganics

Antimony	1.0 ug/g	-	<1.0	<1.0	-
Arsenic	1.0 ug/g	-	2.2	5.2	-
Barium	1.0 ug/g	-	48.8	50.3	-
Beryllium	0.5 ug/g	-	<0.5	<0.5	-
Boron	5.0 ug/g	-	5.2	6.0	-
Boron, available	0.5 ug/g	-	<0.5	4.5	<0.5
Cadmium	0.5 ug/g	-	<0.5	<0.5	-
Chromium	5.0 ug/g	-	12.8	13.9	-
Chromium (VI)	0.2 ug/g	-	<0.2	<0.2	-
Cobalt	1.0 ug/g	-	4.3	4.9	-
Copper	5.0 ug/g	-	6.8	11.0	-
Lead	1.0 ug/g	-	8.2	9.0	-
Mercury	0.1 ug/g	-	<0.1	<0.1	-
Molybdenum	1.0 ug/g	-	<1.0	<1.0	-
Nickel	5.0 ug/g	-	7.9	9.8	-
Selenium	1.0 ug/g	-	<1.0	<1.0	-

	Client ID:				Criteria:				
	Sample Date:		Sample ID:						
	MDL/Units	Matrix:	Sample ID:	Matrix:					
Silver	0.3 ug/g	-	MW206-1A 05-Oct-2021 2141488-18 Soil	MW206-1B 05-Oct-2021 2141488-19 Soil	BH201-1 04-Oct-2021 2141488-21 Soil	BH201-2B 04-Oct-2021 2141488-22 Soil	Reg 153/04 (2011)-Table 2 Residential	(25) ug/g	
Thallium	1.0 ug/g	-						(1) ug/g	
Uranium	1.0 ug/g	-						(23) ug/g	
Vanadium	10.0 ug/g	-		24.8	26.4			(86) ug/g	
Zinc	20.0 ug/g	-		31.9	42.4			(340) ug/g	
Volatiles									
Acetone	0.50 ug/g	<0.50		-	<0.50			(28) ug/g	
Benzene	0.02 ug/g	<0.02		-	<0.02			(0.17) ug/g	
Bromodichloromethane	0.05 ug/g	<0.05		-	<0.05			(1.9) ug/g	
Bromoform	0.05 ug/g	<0.05		-	<0.05			(0.26) ug/g	
Bromomethane	0.05 ug/g	<0.05		-	<0.05			(0.05) ug/g	
Carbon Tetrachloride	0.05 ug/g	<0.05		-	<0.05			(0.12) ug/g	
Chlorobenzene	0.05 ug/g	<0.05		-	<0.05			(2.7) ug/g	
Chloroform	0.05 ug/g	<0.05		-	<0.05			(0.18) ug/g	
Dibromochloromethane	0.05 ug/g	<0.05		-	<0.05			(2.9) ug/g	
Dichlorodifluoromethane	0.05 ug/g	<0.05		-	<0.05			(25) ug/g	
1,2-Dichlorobenzene	0.05 ug/g	<0.05		-	<0.05			(1.7) ug/g	
1,3-Dichlorobenzene	0.05 ug/g	<0.05		-	<0.05			(6) ug/g	
1,4-Dichlorobenzene	0.05 ug/g	<0.05		-	<0.05			(0.097) ug/g	
1,1-Dichloroethane	0.05 ug/g	<0.05		-	<0.05			(0.6) ug/g	
1,2-Dichloroethane	0.05 ug/g	<0.05		-	<0.05			(0.05) ug/g	
1,1-Dichloroethylene	0.05 ug/g	<0.05		-	<0.05			(0.05) ug/g	
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05		-	<0.05			(2.5) ug/g	
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05		-	<0.05			(0.75) ug/g	

	Client ID:				Matrix:	Criteria:
	Sample Date:	Sample ID:	MDL/Units			
	MW206-1A 05-Oct-2021 2141488-18	MW206-1B 05-Oct-2021 2141488-19	BH201-1 04-Oct-2021 2141488-21	BH201-2B 04-Oct-2021 2141488-22		
1,2-Dichloropropane	<0.05	<0.05	<0.05	-	ug/g	(0.085)
cis-1,3-Dichloropropylene	<0.05	<0.05	<0.05	-	ug/g	
trans-1,3-Dichloropropylene	<0.05	<0.05	<0.05	-	ug/g	
1,3-Dichloropropene, total	<0.05	<0.05	<0.05	-	ug/g	(0.081)
Ethylbenzene	<0.05	<0.05	<0.05	-	ug/g	(1.6)
Ethylene dibromide (dibromoethane)	<0.05	<0.05	<0.05	-	ug/g	(0.05)
Hexane	<0.05	<0.05	<0.05	-	ug/g	(34)
Methyl Ethyl Ketone (2-Butanone)	<0.50	<0.50	<0.50	-	ug/g	(44)
Methyl Isobutyl Ketone	<0.50	<0.50	<0.50	-	ug/g	(4.3)
Methyl tert-butyl ether	<0.05	<0.05	<0.05	-	ug/g	(1.4)
Methylene Chloride	<0.05	<0.05	<0.05	-	ug/g	(0.96)
Styrene	<0.05	<0.05	<0.05	-	ug/g	(2.2)
1,1,1,2-Tetrachloroethane	<0.05	<0.05	<0.05	-	ug/g	(0.05)
1,1,2,2-Tetrachloroethane	<0.05	<0.05	<0.05	-	ug/g	(0.05)
Tetrachloroethylene	<0.05	<0.05	<0.05	-	ug/g	(2.3)
Toluene	<0.05	<0.05	<0.05	-	ug/g	(6)
1,1,1-Trichloroethane	<0.05	<0.05	<0.05	-	ug/g	(3.4)
1,1,2-Trichloroethane	<0.05	<0.05	<0.05	-	ug/g	(0.05)
Trichloroethylene	<0.05	<0.05	<0.05	-	ug/g	(0.52)
Trichlorofluoromethane	<0.05	<0.05	<0.05	-	ug/g	(5.8)
Vinyl chloride	<0.02	<0.02	<0.02	-	ug/g	(0.022)
m,p-Xylenes	<0.05	<0.05	<0.05	-	ug/g	
o-Xylene	<0.05	<0.05	<0.05	-	ug/g	

	Client ID:				Criteria:
	Sample Date:	MW206-1A	MW206-1B	BH201-2B	
	Sample ID:	05-Oct-2021 2141488-18	05-Oct-2021 2141488-19	04-Oct-2021 2141488-22	
	Matrix:	Soil	Soil	Soil	
	MDL/Units				
Xylenes, total	0.05 ug/g	<0.05	-	<0.05	(25) ug/g
4-Bromofluorobenzene	Surrogate	102%	-	102%	
Dibromofluoromethane	Surrogate	94.5%	-	94.3%	
Toluene-d8	Surrogate	103%	-	104%	
Hydrocarbons					
F1 PHCs (C6-C10)	7 ug/g	<7	-	<7	(65) ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	-	<4	(150) ug/g
F3 PHCs (C16-C34)	8 ug/g	50	-	26	(1,300) ug/g
F4 PHCs (C34-C50)	6 ug/g	157	-	<6	(5,600) ug/g
F4G-sg PHCs (gravimetric)	50 ug/g	741	-	-	(5,600) ug/g
Semi-Volatiles					
Acenaphthene	0.02 ug/g	-	<0.02	<0.02	(29) ug/g
Acenaphthylene	0.02 ug/g	-	<0.02	<0.02	(0.17) ug/g
Anthracene	0.02 ug/g	-	<0.02	<0.02	(0.74) ug/g
Benzo [a] anthracene	0.02 ug/g	-	<0.02	<0.02	(0.63) ug/g
Benzo [a] pyrene	0.02 ug/g	-	<0.02	<0.02	(0.3) ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	<0.02	(0.78) ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	<0.02	(7.8) ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	<0.02	(0.78) ug/g
Chrysene	0.02 ug/g	-	<0.02	<0.02	(7.8) ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	<0.02	(0.1) ug/g
Fluoranthene	0.02 ug/g	-	<0.02	<0.02	(0.69) ug/g
Fluorene	0.02 ug/g	-	<0.02	<0.02	(69) ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	<0.02	(0.48) ug/g

	Client ID:		Sample Date:		Sample ID:		Matrix:	MDL/Units			Criteria:
	MW206-1A	MW206-1B	BH201-1	BH201-2B	2141488-18	2141488-19					
1-Methylnaphthalene	-	<0.02	<0.02	-	-	-	0.02 ug/g	Soil	Soil	-	ug/g (3.4)
2-Methylnaphthalene	-	<0.02	<0.02	-	-	-	0.02 ug/g	Soil	Soil	-	ug/g (3.4)
Methylnaphthalene (1&2)	-	<0.03	<0.03	-	-	-	0.03 ug/g	Soil	Soil	-	ug/g (3.4)
Naphthalene	-	<0.01	<0.01	-	-	-	0.01 ug/g	Soil	Soil	-	ug/g (0.75)
Phenanthrene	-	<0.02	<0.02	-	-	-	0.02 ug/g	Soil	Soil	-	ug/g (7.8)
Pyrene	-	<0.02	<0.02	-	-	-	0.02 ug/g	Soil	Soil	-	ug/g (78)
2-Fluorobiphenyl	-	92.4%	91.8%	-	-	-	Surrogate	Soil	Soil	-	
Terphenyl-d14	-	101%	99.4%	-	-	-	Surrogate	Soil	Soil	-	

Client ID: Sample Date: Sample ID: Matrix:	Field Blank	-	-	-	-
	05-Oct-2021	-	-	-	-
	2141488-23	-	-	-	-
	Soil	-	-	-	-
MDL/Units					

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics		MDL/Units	Field Blank					
% Solids	0.1 % by Wt.		100	-	-	-	-	-
Volatiles								
Acetone	0.50 ug/g	<0.50	-	-	-	-	(28)	ug/g
Benzene	0.02 ug/g	<0.02	-	-	-	-	(0.17)	ug/g
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	-	(1.9)	ug/g
Bromoform	0.05 ug/g	<0.05	-	-	-	-	(0.26)	ug/g
Bromomethane	0.05 ug/g	<0.05	-	-	-	-	(0.05)	ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	-	(0.12)	ug/g
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	-	(2.7)	ug/g
Chloroform	0.05 ug/g	<0.05	-	-	-	-	(0.18)	ug/g
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	-	(2.9)	ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	-	(25)	ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	(1.7)	ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	(6)	ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	(0.097)	ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	(0.6)	ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	(0.05)	ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	(0.05)	ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	(2.5)	ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	(0.75)	ug/g
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	-	(0.085)	ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-		
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-		

	Client ID:		Field Blank						Criteria:
	Sample Date:	Sample ID:							
	Matrix:								
	MDL/Units	05-Oct-2021	2141488-23	Soil					Reg 153/04 (2011)-Table 2 Residential
1,3-Dichloropropene, total	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(0.081) ug/g
Ethylbenzene	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(1.6) ug/g
Ethylene dibromide (dibromoethane)	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(0.05) ug/g
Hexane	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(34) ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50	-	-	-	-	-	(44) ug/g
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50	-	-	-	-	-	(4.3) ug/g
Methyl tert-butyl ether	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(1.4) ug/g
Methylene Chloride	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(0.96) ug/g
Styrene	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(2.2) ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(0.05) ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(0.05) ug/g
Tetrachloroethylene	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(2.3) ug/g
Toluene	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(6) ug/g
1,1,1-Trichloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(3.4) ug/g
1,1,2-Trichloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(0.05) ug/g
Trichloroethylene	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(0.52) ug/g
Trichlorofluoromethane	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(5.8) ug/g
Vinyl chloride	0.02 ug/g	<0.02	<0.02	-	-	-	-	-	(0.022) ug/g
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	
o-Xylene	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	
Xylenes, total	0.05 ug/g	<0.05	<0.05	-	-	-	-	-	(25) ug/g
4-Bromofluorobenzene	Surrogate	105%	105%	-	-	-	-	-	
Dibromofluoromethane	Surrogate	94.6%	94.6%	-	-	-	-	-	
Toluene-d8	Surrogate	104%	104%	-	-	-	-	-	

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03
 Client PO:

Client ID:	Field Blank	-	-	-	-	Criteria: Reg 153/04 (2011)-Table 2 Residential
Sample Date:	05-Oct-2021	-	-	-	-	
Sample ID:	2141488-23	-	-	-	-	
Matrix:	Soil	-	-	-	-	

MDL/Units						
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	(65) ug/g

Hydrocarbons

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	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					
F4G-sg PHCs (gravimetric)	ND	50	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					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.165		ug/g	82.8	50-140			
Surrogate: Terphenyl-d14	0.217		ug/g	108	50-140			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Styrene	ND	0.05	ug/g				
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g				
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g				
Tetrachloroethylene	ND	0.05	ug/g				
Toluene	ND	0.05	ug/g				
1,1,1-Trichloroethane	ND	0.05	ug/g				
1,1,2-Trichloroethane	ND	0.05	ug/g				
Trichloroethylene	ND	0.05	ug/g				
Trichlorofluoromethane	ND	0.05	ug/g				
Vinyl chloride	ND	0.02	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: 4-Bromofluorobenzene	8.41		ug/g	105	50-140		
Surrogate: Dibromofluoromethane	7.45		ug/g	93.2	50-140		
Surrogate: Toluene-d8	8.45		ug/g	106	50-140		
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	8.30		ug/g	104	50-140		

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Conductivity	537	5	uS/cm	536			0.2	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.48	0.05	pH Units	7.45			0.4	10	
Hydrocarbons									
F-1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
F4G-sg PHCs (gravimetric)	640	50	ug/g	574			10.9	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	3.4	1.0	ug/g	3.3			1.5	30	
Barium	104	1.0	ug/g	110			5.4	30	
Beryllium	0.8	0.5	ug/g	0.7			5.4	30	
Boron, available	0.96	0.5	ug/g	0.82			16.1	35	
Boron	21.1	5.0	ug/g	19.8			6.3	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	22.1	5.0	ug/g	22.0			0.5	30	
Cobalt	8.9	1.0	ug/g	9.0			0.7	30	
Copper	16.7	5.0	ug/g	16.8			0.7	30	
Lead	7.5	1.0	ug/g	7.6			1.3	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	21.4	5.0	ug/g	21.9			2.3	30	
Selenium	1.3	1.0	ug/g	ND			NC	30	
Silver	0.3	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	1.2	1.0	ug/g	ND			NC	30	
Vanadium	29.6	10.0	ug/g	30.6			3.1	30	
Zinc	48.4	20.0	ug/g	49.5			2.1	30	
Physical Characteristics									
% Solids	91.2	0.1	% by Wt.	90.5			0.7	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	0.184		ug/g		87.4	50-140			
Surrogate: Terphenyl-d14	0.223		ug/g		106	50-140			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	6.65		ug/g		106	50-140			
Surrogate: Dibromofluoromethane	5.92		ug/g		94.0	50-140			
Surrogate: Toluene-d8	6.65		ug/g		106	50-140			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	6.40		ug/g		104	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
General Inorganics							
Cyanide, free	0.312	0.03	ug/g	ND	93.6	70-130	
Hydrocarbons							
F1 PHCs (C6-C10)	75	7	ug/g	ND	106	80-120	
F2 PHCs (C10-C16)	99	4	ug/g	ND	111	60-140	
F3 PHCs (C16-C34)	166	8	ug/g	ND	83.1	60-140	
F4 PHCs (C34-C50)	139	6	ug/g	ND	96.6	60-140	
F4-G-sg PHCs (gravimetric)	880	50	ug/g	ND	88.0	80-120	
Metals							
Antimony	132	1.0	ug/g	ND	105	70-130	
Arsenic	135	1.0	ug/g	3.3	106	70-130	
Barium	240	1.0	ug/g	110	104	70-130	
Beryllium	131	0.5	ug/g	0.7	104	70-130	
Boron, available	4.50	0.5	ug/g	ND	90.0	70-122	
Boron	147	5.0	ug/g	19.8	101	70-130	
Cadmium	124	0.5	ug/g	ND	98.9	70-130	
Chromium (VI)	4.2	0.2	ug/g	ND	84.5	70-130	
Chromium	144	5.0	ug/g	22.0	97.4	70-130	
Cobalt	130	1.0	ug/g	9.0	96.7	70-130	
Copper	139	5.0	ug/g	16.8	97.8	70-130	
Lead	125	1.0	ug/g	7.6	93.6	70-130	
Mercury	1.48	0.1	ug/g	ND	98.8	70-130	
Molybdenum	126	1.0	ug/g	ND	101	70-130	
Nickel	142	5.0	ug/g	21.9	96.0	70-130	
Selenium	126	1.0	ug/g	ND	100	70-130	
Silver	113	0.3	ug/g	ND	90.5	70-130	
Thallium	118	1.0	ug/g	ND	94.7	70-130	
Uranium	120	1.0	ug/g	ND	95.6	70-130	
Vanadium	156	10.0	ug/g	30.6	100	70-130	
Zinc	175	20.0	ug/g	49.5	100	70-130	
Semi-Volatiles							
Acenaphthene	0.110	0.02	ug/g	ND	104	50-140	
Acenaphthylene	0.101	0.02	ug/g	ND	95.3	50-140	
Anthracene	0.112	0.02	ug/g	ND	106	50-140	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Benzo [a] anthracene	0.107	0.02	ug/g	ND	101	50-140	
Benzo [a] pyrene	0.131	0.02	ug/g	ND	124	50-140	
Benzo [b] fluoranthene	0.126	0.02	ug/g	ND	119	50-140	
Benzo [g,h,i] perylene	0.130	0.02	ug/g	ND	123	50-140	
Benzo [k] fluoranthene	0.126	0.02	ug/g	ND	120	50-140	
Chrysene	0.118	0.02	ug/g	ND	112	50-140	
Dibenzo [a,h] anthracene	0.115	0.02	ug/g	ND	109	50-140	
Fluoranthene	0.144	0.02	ug/g	ND	136	50-140	
Fluorene	0.123	0.02	ug/g	ND	116	50-140	
Indeno [1,2,3-cd] pyrene	0.126	0.02	ug/g	ND	119	50-140	
1-Methylnaphthalene	0.111	0.02	ug/g	ND	105	50-140	
2-Methylnaphthalene	0.106	0.02	ug/g	ND	100	50-140	
Naphthalene	0.097	0.01	ug/g	ND	92.3	50-140	
Phenanthrene	0.124	0.02	ug/g	ND	118	50-140	
Pyrene	0.114	0.02	ug/g	ND	108	50-140	
Surrogate: 2-Fluorobiphenyl	0.201		ug/g		95.7	50-140	
Surrogate: Terphenyl-d14	0.217		ug/g		103	50-140	
Volatiles							
Acetone	11.4	0.50	ug/g	ND	117	50-140	
Benzene	4.26	0.02	ug/g	ND	106	60-130	
Bromodichloromethane	4.27	0.05	ug/g	ND	106	60-130	
Bromoform	4.37	0.05	ug/g	ND	109	60-130	
Bromomethane	3.25	0.05	ug/g	ND	81.2	50-140	
Carbon Tetrachloride	4.21	0.05	ug/g	ND	105	60-130	
Chlorobenzene	4.26	0.05	ug/g	ND	106	60-130	
Chloroform	3.88	0.05	ug/g	ND	96.6	60-130	
Dibromochloromethane	4.28	0.05	ug/g	ND	107	60-130	
Dichlorodifluoromethane	4.12	0.05	ug/g	ND	103	50-140	
1,2-Dichlorobenzene	4.18	0.05	ug/g	ND	105	60-130	
1,3-Dichlorobenzene	4.18	0.05	ug/g	ND	105	60-130	
1,4-Dichlorobenzene	4.19	0.05	ug/g	ND	104	60-130	
1,1-Dichloroethane	4.26	0.05	ug/g	ND	107	60-130	
1,2-Dichloroethane	4.29	0.05	ug/g	ND	107	60-130	
1,1-Dichloroethylene	4.75	0.05	ug/g	ND	119	60-130	
cis-1,2-Dichloroethylene	4.25	0.05	ug/g	ND	106	60-130	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
trans-1,2-Dichloroethylene	4.15	0.05	ug/g	ND	103	60-130			
1,2-Dichloropropane	4.29	0.05	ug/g	ND	107	60-130			
cis-1,3-Dichloropropylene	4.20	0.05	ug/g	ND	105	60-130			
trans-1,3-Dichloropropylene	4.22	0.05	ug/g	ND	105	60-130			
Ethylbenzene	4.29	0.05	ug/g	ND	107	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	4.29	0.05	ug/g	ND	107	60-130			
Hexane	4.15	0.05	ug/g	ND	104	60-130			
Methyl Ethyl Ketone (2-Butanone)	10.2	0.50	ug/g	ND	99.4	50-140			
Methyl Isobutyl Ketone	10.4	0.50	ug/g	ND	107	50-140			
Methyl tert-butyl ether	10.5	0.05	ug/g	ND	105	50-140			
Methylene Chloride	4.76	0.05	ug/g	ND	118	60-130			
Styrene	4.23	0.05	ug/g	ND	105	60-130			
1,1,1,2-Tetrachloroethane	4.22	0.05	ug/g	ND	105	60-130			
1,1,2,2-Tetrachloroethane	4.20	0.05	ug/g	ND	104	60-130			
Tetrachloroethylene	4.31	0.05	ug/g	ND	107	60-130			
Toluene	4.30	0.05	ug/g	ND	108	60-130			
1,1,1-Trichloroethane	4.22	0.05	ug/g	ND	105	60-130			
1,1,2-Trichloroethane	4.32	0.05	ug/g	ND	108	60-130			
Trichloroethylene	4.23	0.05	ug/g	ND	105	60-130			
Trichlorofluoromethane	4.69	0.05	ug/g	ND	117	50-140			
Vinyl chloride	4.11	0.02	ug/g	ND	103	50-140			
m,p-Xylenes	8.42	0.05	ug/g	ND	105	60-130			
o-Xylene	4.21	0.05	ug/g	ND	105	60-130			
Surrogate: 4-Bromofluorobenzene	8.00		ug/g		100	50-140			
Surrogate: Dibromofluoromethane	8.23		ug/g		103	50-140			
Surrogate: Toluene-d8	7.76		ug/g		97.0	50-140			
Benzene	4.95	0.02	ug/g	ND	123	60-130			
Ethylbenzene	4.87	0.05	ug/g	ND	121	60-130			
Toluene	4.95	0.05	ug/g	ND	124	60-130			
m,p-Xylenes	9.70	0.05	ug/g	ND	121	60-130			
o-Xylene	4.86	0.05	ug/g	ND	121	60-130			
Surrogate: Toluene-d8	7.66		ug/g		95.8	50-140			

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 26-Oct-2021

Order Date: 7-Oct-2021

Project Description: CT2694.03

Qualifier Notes:

Login Qualifiers :

Sample - One or more parameter received past hold time - REG 153: PHC F1 to F4 + VOCs
Applies to samples: BH204-1, BH205-1

Sample Qualifiers :

1 : This analysis was conducted after the accepted holding time had been exceeded.

Sample Data Revisions

None

Work Order Revisions / Comments:

COC missing analysis

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/Solid results are reported on a dry weight basis unless otherwise indicated

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.

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.



Parcel Order Number
(Lab Use Only)
2141448

Chain Of Custody
(Lab Use Only)
No 53221

Client Name: Terrapex Environmental Ltd
 Contact Name: Sara Sutherland
 Address: 90 Sarsdeton Rd, Toronto ON M8B 2R7
 Telephone: 416-529-9215

Project Ref: CT2694.03
 Quote #: 50
 PO #: S. Sutherland@terrapex.com

Regulation: 153/04
 Other Regulation:
 Table 1 Res/Tank Med/Line PWCQ REG 538 COME MISA
 Table 2 Ind/Comm Course SU - San SU - Storm
 Table 3 Agri/Other Mun:
 For RSC: Yes No

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Date	Time	
1 MW203-1B	S	1	1		8:45am	Oct 5/21	8:45am	Required Analysis: PAHs BTEX PHE VOCs PH HOLD
2 MW203-2		1	1		8:50am		8:50am	
3 MW203-4		1	2		9:00am		9:00am	
4 MW203-7		1	3		9:40 am		9:40 am	
5 MW203-8		1	3		9:45am		9:45am	
6 MW2002		1	3		9:40am		9:40am	
7 BH204-1		1	3		10:50am		10:50am	
8 BH204-2		1	3		10:55am		10:55am	
9 BH205-1		1	2		1:25pm		1:25pm	
10 BH205-2		1	2		1:30 pm		1:30 pm	

Method of Delivery: FAB/EP
 Verified By: BB
 Received at Lab: BF
 Date/Time: 08/10/2021 13:28
 Date/Time: 08/10/21 14:00
 Temperature: 11.7 °C
 pH Verified: By: _____

Requisitioned By: Sabrina Jivani
 Requisitioned By Print: SJivani
 Date/Time: Oct 6/21 2:50pm
 Date/Time: 10/07/2021 14:45
 Date/Time: 08/10/2021 13:28
 Date/Time: 08/10/21 14:45
 Date/Time: 08/10/2021 13:28
 Date/Time: 08/10/21 14:00
 Date/Time: 08/10/2021 13:28
 Date/Time: 08/10/21 14:00
 Date/Time: 08/10/2021 13:28
 Date/Time: 08/10/21 14:00
 Date/Time: 08/10/2021 13:28
 Date/Time: 08/10/21 14:00
 Date/Time: 08/10/2021 13:28
 Date/Time: 08/10/21 14:00



Parcel ID: 2141488

Chain Of Custody
(Lab Use Only)
No: 53222

Client Name: Terrapex Environmental Ltd
 Contact Name: Sara Sutherland
 Address: 90 Sawdust Rd, Toronto ON M3B 2R7
 Telephone: 416-529-9215
 Project Ref: CT2694.03
 Quote #: S.O.
 PO #:
 Email: S.Sutherland@terrapex.com
 Turnaround Time: 1 day 2 day 3 day Regular
 Date Required:
 Page 2 of 3

Sample ID/Location Name	Matrix	# of Containers	Sample Taken		Required Analysis
			Date	Time	
1 BH205-5	S	2	Oct 5/21	1:45pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
2 BH206	S	1	Oct 5/21	1:30pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
3 BH202-1	S	2	Oct 4/21	4:35pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
4 BH202-3A	S	2	Oct 4/21	12:45pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
5 BH202-6	S	3	Oct 4/21	1:15pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
6 BH202-7	S	2	Oct 4/21	1:20pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
7 BH2001	S	2	Oct 4/21	1:15pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
8 MW206-1A	S	2	Oct 5/21	3:50pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
9 MW206-1B	S	2	Oct 5/21	3:55pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs
10 MW206-2	S	2	Oct 5/21	4:05pm	PH, VOCs, BTEX, Metals, Pesticides, PHHs

Method of Delivery: **FABEX**
 Verified By: **BS**
 Date/Time: **08/10/2021 13:25**
 pH Verified: By:
 Received at Lab: **BB**
 Date/Time: **08/10/2021 13:25**
 Temperature: **11.7** °C
 Received By Driver/Depot: **RC**
 Date/Time: **10/09/2021 14:45**
 Temperature: **4.2** °C
 Date/Time: **Oct 6/21 2:50am**
 Temperature: **11.7** °C

Regulation 153/04
 Table 1 Rec/Park Med/Fire REG 558 PW00
 Table 2 Ins/Comm Coarse CDME MSA
 Table 3 Agri/Other SU-Sam SU-Storm
 Table
 For RSC: Yes No
 Other:
 Other Regulation:
 Munk:
 Other:
 Comments:
 Chain of Custody (Bench): .xlsx
 Revision: 3.0



Parcel Order Number
(Lab Use Only)
2141448

Chain Of Custody
(Lab Use Only)
No 53223

Client Name: Terrapex Environmental
 Contact Name: Sara Sutherland
 Address: 90 Spadina Rd
Toronto ON M5S 2R7
 Telephone: 416-529-9215

Project Ref: CT2614.03
 Quote #: S.O.
 PO #: _____
 E-mail: Sara.Sutherland@terrapex.com

Date Required: _____

Turnaround Time
 1 day
 2 day
 3 day
 Regular

Page 3 of 3

Sample ID/Location Name	Regulation 153/04		Other Regulation		Matrix	Air Volume	N of Containers	Sample Taken		Required Analysis
	Table 1	Table 2	Table 3	Table				Date	Time	
1 BH201-1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	3	3	Oct 4/21	12:35PM	PHCs Metals & Organics VOCs F1
2 BH201-2A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	2	2	→	12:40PM	
3 BH201-2B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	1	1			
4 Field Blank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	1	1			
5										
6										
7										
8										
9										
10										

Method of Delivery: PARCEL

Received By: BB

Received at Lab: BB

Date/Time: 08/10/2021 13:25

Temperature: 11.7 °C

Received By Driver/Depot: IG

Date/Time: 08/29/2021 14:45

Temperature: 4.2 °C

Relinquished By (Print): Sfurn

Date/Time: Oct 6/21 2:50pm

Relinquished By (Print): Sfurn

Date/Time: 08/10/2021 14:00

pH / Vol/lot: By: _____



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 53172

Report Date: 25-Nov-2021
Order Date: 21-Oct-2021

Revised Report
Order #: 2143465

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

Paracel ID	Client ID
2143465-01	HA101-1
2143465-03	HA102-1
2143465-04	HA102-2

Alex Enfield, MSc
Lab Manager

Approved By:

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	26-Oct-21	26-Oct-21
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	25-Oct-21	27-Oct-21
Conductivity	MOE E3138 - probe @25 °C, water ext	27-Oct-21	27-Oct-21
Cyanide, free	MOE E3015 - Auto Colour, water extraction	25-Oct-21	25-Oct-21
Mercury by CVAA	EPA 7471B - CVAA, digestion	26-Oct-21	27-Oct-21
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	26-Oct-21	26-Oct-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	26-Oct-21	27-Oct-21
REG 153: pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	26-Oct-21	27-Oct-21
SAR	Calculated	27-Oct-21	27-Oct-21
Solids, %	Gravimetric, calculation	29-Oct-21	1-Nov-21

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets, (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Residential
HA102-1	Nickel	5.0 ug/g	150	(130) ug/g
HA102-1	Benzo [a] pyrene	0.02 ug/g	0.45	(0.3) ug/g
HA102-1	Dibenzo [a,h] anthracene	0.02 ug/g	0.35	(0.1) ug/g
HA102-1	Fluoranthene	0.02 ug/g	0.79	(0.69) ug/g
HA102-1	Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.66	(0.48) ug/g
HA102-2	Nickel	5.0 ug/g	190	(130) ug/g
HA102-2	Benzo [a] pyrene	0.02 ug/g	0.38	(0.3) ug/g
HA102-2	Fluoranthene	0.02 ug/g	0.88	(0.69) ug/g

Client ID:		HA101-1	HA102-1	HA102-2	-
Sample Date:		18-Oct-2021	18-Oct-2021	18-Oct-2021	-
Sample ID:		2143465-01	2143465-03	2143465-04	-
Matrix:		Soil	Soil	Soil	-
MDL/Units					

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics		0.1 % by Wt.		92.0	
General Inorganics					
SAR	0.01 N/A	0.39	0.09	-	(5) N/A
Conductivity	5 uS/cm	260	131	-	(0.7) mS/cm
Cyanide, free	0.03 ug/g	<0.03	<0.03	-	(0.051) ug/g
pH	0.05 pH Units	7.38	7.66	-	(5 - 9) pH units
Metals					
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	(7.5) ug/g
Arsenic	1.0 ug/g	2.2	2.6	3.7	(18) ug/g
Barium	1.0 ug/g	54.3	34.1	43.6	(390) ug/g
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	(5) ug/g
Boron	5.0 ug/g	5.3	5.6	8.0	(120) ug/g
Boron, available	0.5 ug/g	1.2	0.7	-	(1.5) ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	0.7	(1.2) ug/g
Chromium	5.0 ug/g	11.7	13.3	19.3	(160) ug/g
Chromium (VI)	0.2 ug/g	<0.2	<0.2	-	(10) ug/g
Cobalt	1.0 ug/g	4.0	3.5	5.4	(22) ug/g
Copper	5.0 ug/g	9.4	27.0	43.4	(180) ug/g
Lead	1.0 ug/g	9.8	29.4	44.4	(120) ug/g
Mercury	0.1 ug/g	<0.1	<0.1	-	(1.8) ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	1.2	(6.9) ug/g
Nickel	5.0 ug/g	9.3	150	190	(130) ug/g

	Client ID:		HA101-1 18-Oct-2021 2143465-01 Soil	HA102-1 18-Oct-2021 2143465-03 Soil	HA102-2 18-Oct-2021 2143465-04 Soil	-	-	-	Criteria:
	Sample ID:	Sample Date:							
	MDL/Units	Reg 153/04 (2011)-Table 2 Residential							
Selenium	1.0 ug/g	<1.0	<1.0	1.3	-	-	-	(2.4)	ug/g
Silver	0.3 ug/g	<0.3	0.3	0.6	-	-	-	(25)	ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	-	-	-	(1)	ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	-	-	-	(23)	ug/g
Vanadium	10.0 ug/g	18.4	15.3	19.3	-	-	-	(86)	ug/g
Zinc	20.0 ug/g	34.6	169	231	-	-	-	(340)	ug/g
Semi-Volatiles									
Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	-	-	-	(29)	ug/g
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	-	-	-	(0.17)	ug/g
Anthracene	0.02 ug/g	<0.02	0.08	0.07	-	-	-	(0.74)	ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	0.34	0.34	-	-	-	(0.63)	ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	0.45	0.38	-	-	-	(0.3)	ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	0.31	0.33	-	-	-	(0.78)	ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	0.54	0.21	-	-	-	(7.8)	ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	0.16	0.17	-	-	-	(0.78)	ug/g
Chrysene	0.02 ug/g	<0.02	0.31	0.33	-	-	-	(7.8)	ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	0.35	0.05	-	-	-	(0.1)	ug/g
Fluoranthene	0.02 ug/g	<0.02	0.79	0.88	-	-	-	(0.69)	ug/g
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	-	-	-	(69)	ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	0.66	0.23	-	-	-	(0.48)	ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	-	-	-	(3.4)	ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	-	-	-	(3.4)	ug/g
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	<0.03	<0.03	-	-	-	(3.4)	ug/g

Report Date: 25-Nov-2021
Order Date: 21-Oct-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

	Client ID:		HA101-1 18-Oct-2021 2143465-01 Soil	HA102-1 18-Oct-2021 2143465-03 Soil	HA102-2 18-Oct-2021 2143465-04 Soil	-	-	-	-	Criteria:
	Sample Date:	Sample ID:								
Naphthalene			<0.01	<0.01	<0.01					(0.75) ug/g
Phenanthrene			<0.02	0.26	0.32					(7.8) ug/g
Pyrene			<0.02	0.48	0.54					(78) ug/g
2-Fluorobiphenyl			82.2%	89.8%	90.7%					
Terphenyl-d14			73.4%	73.0%	82.3%					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
General Inorganics							
Conductivity	ND	5	uS/cm				
Cyanide, free	ND	0.03	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				
Semi-Volatiles							
Acenaphthene	ND	0.02	ug/g				
Acenaphthylene	ND	0.02	ug/g				
Anthracene	ND	0.02	ug/g				
Benzo [a] anthracene	ND	0.02	ug/g				
Benzo [a] pyrene	ND	0.02	ug/g				
Benzo [b] fluoranthene	ND	0.02	ug/g				
Benzo [g,h,i] perylene	ND	0.02	ug/g				
Benzo [k] fluoranthene	ND	0.02	ug/g				
Chrysene	ND	0.02	ug/g				
Dibenzo [a,h] anthracene	ND	0.02	ug/g				
Fluoranthene	ND	0.02	ug/g				
Fluorene	ND	0.02	ug/g				
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g				
1-Methylnaphthalene	ND	0.02	ug/g				

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	RPD Limit	Notes
2-Methylnaphthalene	ND	0.02	ug/g						
Methylnaphthalene (1&2)	ND	0.03	ug/g						
Naphthalene	ND	0.01	ug/g						
Phenanthrene	ND	0.02	ug/g						
Pyrene	ND	0.02	ug/g						
Surrogate: 2-Fluorobiphenyl	0.135		ug/g		67.9	50-140			
Surrogate: Terphenyl-d14	0.208		ug/g		104	50-140			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
General Inorganics								
SAR	2.58	0.01	N/A	1.95			30	
Conductivity	321	5	uS/cm	306			5	
Cyanide, free	ND	0.03	ug/g	ND			35	
pH	7.49	0.05	pH Units	7.57			10	
Metals								
Antimony	ND	1.0	ug/g	ND			30	
Arsenic	4.6	1.0	ug/g	3.8			20.5	
Barium	34.6	1.0	ug/g	30.1			13.8	
Beryllium	ND	0.5	ug/g	ND			30	
Boron, available	ND	0.5	ug/g	ND			35	
Boron	9.3	5.0	ug/g	6.9			29.9	
Cadmium	ND	0.5	ug/g	ND			30	
Chromium (VI)	ND	0.2	ug/g	ND			35	
Chromium	8.7	5.0	ug/g	7.6			13.2	
Cobalt	3.6	1.0	ug/g	3.1			14.3	
Copper	26.9	5.0	ug/g	24.4			9.7	
Lead	31.9	1.0	ug/g	40.7			24.2	
Mercury	ND	0.1	ug/g	ND			30	
Molybdenum	1.2	1.0	ug/g	ND			30	
Nickel	8.3	5.0	ug/g	7.1			16.5	
Selenium	ND	1.0	ug/g	ND			30	
Silver	ND	0.3	ug/g	ND			30	
Thallium	ND	1.0	ug/g	ND			30	
Uranium	ND	1.0	ug/g	ND			30	
Vanadium	12.9	10.0	ug/g	11.5			11.3	
Zinc	122	20.0	ug/g	139			13.5	
Physical Characteristics								
% Solids	81.5	0.1	% by Wt.	82.6			1.3	
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g	ND			40	
Acenaphthylene	ND	0.02	ug/g	ND			40	
Anthracene	ND	0.02	ug/g	ND			40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			40	
Chrysene	ND	0.02	ug/g	ND			40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	0.178		ug/g		77.2	50-140			
Surrogate: Terphenyl-d14	0.241		ug/g		104	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.203	0.03	ug/g	ND	53.4	70-130			QM-07
Metals									
Antimony	139	1.0	ug/g	ND	112	70-130			
Arsenic	141	1.0	ug/g	3.8	109	70-130			
Barium	173	1.0	ug/g	30.1	115	70-130			
Beryllium	125	0.5	ug/g	ND	99.8	70-130			
Boron, available	4.56	0.5	ug/g	ND	91.1	70-122			
Boron	130	5.0	ug/g	6.9	98.8	70-130			
Cadmium	126	0.5	ug/g	ND	100	70-130			
Chromium (VI)	4.1	0.2	ug/g	ND	73.0	70-130			
Chromium	138	5.0	ug/g	7.6	105	70-130			
Cobalt	129	1.0	ug/g	3.1	101	70-130			
Copper	153	5.0	ug/g	24.4	103	70-130			
Lead	139	1.0	ug/g	40.7	78.9	70-130			
Mercury	1.66	0.1	ug/g	ND	111	70-130			
Molybdenum	128	1.0	ug/g	ND	103	70-130			
Nickel	134	5.0	ug/g	7.1	102	70-130			
Selenium	122	1.0	ug/g	ND	97.3	70-130			
Silver	105	0.3	ug/g	ND	83.8	70-130			
Thallium	121	1.0	ug/g	ND	96.5	70-130			
Uranium	122	1.0	ug/g	ND	98.0	70-130			
Vanadium	145	10.0	ug/g	11.5	107	70-130			
Zinc	257	20.0	ug/g	139	94.7	70-130			
Semi-Volatiles									
Acenaphthene	0.116	0.02	ug/g	ND	100	50-140			
Acenaphthylene	0.123	0.02	ug/g	ND	107	50-140			
Anthracene	0.129	0.02	ug/g	ND	111	50-140			
Benzo [a] anthracene	0.132	0.02	ug/g	ND	115	50-140			
Benzo [a] pyrene	0.158	0.02	ug/g	ND	137	50-140			
Benzo [b] fluoranthene	0.113	0.02	ug/g	ND	97.7	50-140			QM-05
Benzo [g,h,i] perylene	0.286	0.02	ug/g	ND	247	50-140			
Benzo [k] fluoranthene	0.098	0.02	ug/g	ND	84.5	50-140			

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chrysene	0.116	0.02	ug/g	ND	100	50-140			
Dibenzo [a,h] anthracene	0.373	0.02	ug/g	ND	323	50-140			QM-05
Fluoranthene	0.151	0.02	ug/g	ND	130	50-140			
Fluorene	0.142	0.02	ug/g	ND	123	50-140			
Indeno [1,2,3-cd] pyrene	0.299	0.02	ug/g	ND	258	50-140			QM-05
1-Methylnaphthalene	0.127	0.02	ug/g	ND	110	50-140			
2-Methylnaphthalene	0.117	0.02	ug/g	ND	101	50-140			
Naphthalene	0.111	0.01	ug/g	ND	95.9	50-140			
Phenanthrene	0.127	0.02	ug/g	ND	110	50-140			
Pyrene	0.104	0.02	ug/g	ND	89.6	50-140			
Surrogate: 2-Fluorobiphenyl	0.186		ug/g		80.8	50-140			
Surrogate: Terphenyl-d14	0.173		ug/g		74.8	50-140			

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 25-Nov-2021

Order Date: 21-Oct-2021

Project Description: CT2694.03

Qualifier Notes:

QC Qualifiers :

QM-05 : The spike recovery was outside acceptance limits for the matrix spike due to matrix interference.

QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

Sample Data Revisions

None

Work Order Revisions / Comments:

REVISION-1: This report includes an updated parameter list.

REVISION-2: This report includes an updated parameter list.

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/Solid results are reported on a dry weight basis unless otherwise indicated
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

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.



Parcel Order Number
(Lab Use Only)
2143465

Chain Of Custody
(Lab Use Only)
No 53172

Client Name: Tetrapep Environmental Ltd Project Ref: CT2694-03 Page 1 of 1

Contact Name: Sister Sutherland Quote #: S10

Address: 90 Scarsdale Rd, Toronto ON PO #: _____

Telephone: M3B 2R7 Email: S.Sutherland@tetrapex.com

Turnaround Time: 1 day 3 day Regular

Date Required: _____

Sample ID/Location Name	Regulation 153/04		Other Regulation		Matrix	Sample Taken		Required Analysis	
	Table 1 <input checked="" type="checkbox"/> Rec/Pink <input checked="" type="checkbox"/> Met/Free	Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse	REG 558 <input type="checkbox"/> PWQO	CCME <input type="checkbox"/> MISA		Air Volume	# of Containers		Date
1 HA101-1					S	1	04/18/21	3:15pm	Metals & Organics
2 HA101-2					S	1	3:20pm		PAHs
3 HA102-1					S	1	3:25pm		Metals & Organics
4 HA102-2					S	1	3:30pm		PAHs
5									
6									
7									
8									
9									
10									

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

Method of Delivery: Tetrapep

Received By (Sign): [Signature] Received at Lab: BB

Relinquished By (Print): Sabrina Juwari Date/Time: 10/21/2021 11:55 °C

Date/Time: 02/24/21 10:10am Temperature: 2.6 °C

Relinquished By (Print): [Signature] Date/Time: 22/10/21 11:25 °C

Date/Time: 02/24/21 10:10am Temperature: 8.3 °C

Verified By: AM Date/Time: 22/10/21 11:33

Method of Delivery: Tetrapep



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59171, 59083

Report Date: 3-Nov-2021
Order Date: 29-Oct-2021

Order #: 2144624

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

Paracel ID	Client ID
2144624-01	HA201-1
2144624-02	HA202-1
2144624-03	HA203-1
2144624-04	HA204-1

Approved By:

Milan Ralitsch, PhD
Senior Technical Manager

Report Date: 03-Nov-2021
 Order Date: 29-Oct-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	2-Nov-21	2-Nov-21
Solids, %	Gravimetric, calculation	1-Nov-21	2-Nov-21

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Report Date: 03-Nov-2021
 Order Date: 29-Oct-2021
 Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Residential

Client ID:	HA201-1	HA202-1	HA203-1	HA204-1
Sample Date:	27-Oct-2021	27-Oct-2021	27-Oct-2021	27-Oct-2021
Sample ID:	2144624-01	2144624-02	2144624-03	2144624-04
Matrix:	Soil	Soil	Soil	Soil
MDL/Units				

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics

% Solids	77.7	80.7	80.6	81.6
----------	------	------	------	------

Metals

Boron, available	1.1	1.5	1.2	1.2
				(1.5) ug/g

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
---------	--------	-----------------	-------	---------------	------------	-----------	-------

Metals

Boron, available ND 0.5 ug/g

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
---------	--------	-----------------	-------	---------------	------------	-----------	-------

Metals

Boron, available

Physical Characteristics

% Solids

ND	0.5	ug/g	ND	NC	35		
95.7	0.1	% by Wt.	95.6	0.1	25		

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	RPD Limit	Notes
---------	--------	-----------------	-------	---------------	------	------------	-----------	-----------	-------

Metals

Boron, available 3.92 0.5 ug/g ND 78.4 70-122



Order #: 2144624

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 03-Nov-2021
Order Date: 29-Oct-2021
Project Description: CT2694.03

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/Solid results are reported on a dry weight basis unless otherwise indicated
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

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.



Client Name: **Terapex Environmental Ltd**
 Contact Name: **Sara Sutherland**
 Address: **90 Scarsdale Rd, Toronto ON**
 Telephone: _____

Project Ref: **CT2694.03**
 Cont #: **S/O**
 PO #: _____
 E-mail: **S.sutherland@terapex.com**

Page **1** of **2**
 Turnaround Time: 1 day 3 day Regular
 Date Required: _____

Sample ID/Location Name	Regulation 153/04		Other Regulation		Matrix	# of Containers	Sample Taken		Required Analysis
	Table 1	Table 2	Table 3	Table 4			Date	Time	
1 HA201-1	<input checked="" type="checkbox"/> Res/PstK	<input checked="" type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:00pm	ON HOLD
2 HA202-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:15pm	ON HOLD
3 HA203-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:30pm	ON HOLD
4 HA204-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:45pm	ON HOLD
5 HA205-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	4:00pm	ON HOLD
6 HA206-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	4:15pm	ON HOLD
7 HA207-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	4:30pm	ON HOLD
8 HA208-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	4:45pm	ON HOLD
9 HA201-2	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:10pm	ON HOLD
10 HA202-2	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:20pm	ON HOLD

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

Method of Delivery: **RABEX**
 Verified By: **Am**
 Date/Time: **11/21 14:02**
 pH Verified:

Received By: **S/O**
 Date/Time: **10/29/2021 11:40**
 Temperature: **9.4** °C

Received at Lab: **BB**
 Date/Time: **01/11/2021**
 Temperature: **6.3** °C

Requisitioned By (Print): **Sabrina Juwan**
 Date/Time: **Oct 29/21 9:20am**

Revision: 3.0
 Chain of Custody (Blank) .dtx



Chain Of Custody
(Lab Use Only)

No 59083

Client Name: **Terrapex Environmental Ltd**
 Contact Name: **Sara Sutherland**
 Address: **90 Scarsville Rd, Toronto ON**
 Telephone: _____

Project Ref: **CT2694.03**
 Quote #: **S/O**
 PO #: _____
 E-mail: **S.sutherland@terrapex.com**

Paracel Order Number (Lab Use Only): **2144624**

Page **2** of **2**

Turnaround Time: 1 day 3 day Regular
 Date Required: _____

Sample ID/Location Name	Regulation 153/04		Other Regulation		Matrix	# of Containers	Sample Taken		Required Analysis
	Table 1	Table 2	Table 3	Table			Matrix	Time	
1 HA 203-2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	1	3:40pm	X	
2 HA 204-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	1	3:50pm	X	
3 HA 205-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	1	4:10pm	X	
4 HA 206-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	1	4:20pm	X	
5 HA 207-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	1	4:40pm	X	
6 HA 207-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	1	4:50pm	X	
7									
8									
9									
10									

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

Method of Delivery: **RABEX**

Verified By: **AM**

Date/Time: **11/01/2021** 14:02
 pH Verified: By: _____

Received at Lab: **BP**

Date/Time: **11/01/2021**
 Temperature: **6.3** °C

Resolved By Driver/Depot: **S**

Date/Time: **10/29/2021** 14:40
 Temperature: **9.4** °C

Relinquished By (Sign): **Sfvrn**

Relinquished By (Print): **Sabrina Jvrn**

Date/Time: **04/29/21 9:20am**

Chain of Custody (Blank) xlsx



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59092

Report Date: 29-Nov-2021
Order Date: 23-Nov-2021

Order #: 2148186

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

Paracel ID 2148186-01
Client ID MW206-4

Alex Enfield, MSc
Lab Manager

Approved By:

Report Date: 29-Nov-2021
 Order Date: 23-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	25-Nov-21	26-Nov-21
Solids, %	Gravimetric, calculation	26-Nov-21	29-Nov-21

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 29-Nov-2021
 Order Date: 23-Nov-2021
Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Residential
-----------	---------	-------------	--------	---------------------------------------

Client ID:	MW206-4	-	-	-	-
Sample Date:	05-Oct-2021	-	-	-	-
Sample ID:	2148186-01	-	-	-	-
Matrix:	Soil	-	-	-	-

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics		MDL/Units			
% Solids	0.1 % by Wt.	-	-	-	-
Semi-Volatiles					
Acenaphthene	0.02 ug/g	-	-	-	(29) ug/g
Acenaphthylene	0.02 ug/g	-	-	-	(0.17) ug/g
Anthracene	0.02 ug/g	-	-	-	(0.74) ug/g
Benzo [a] anthracene	0.02 ug/g	-	-	-	(0.63) ug/g
Benzo [a] pyrene	0.02 ug/g	-	-	-	(0.3) ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	-	-	(0.78) ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	-	-	(7.8) ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	-	-	(0.78) ug/g
Chrysene	0.02 ug/g	-	-	-	(7.8) ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	-	-	-	(0.1) ug/g
Fluoranthene	0.02 ug/g	-	-	-	(0.69) ug/g
Fluorene	0.02 ug/g	-	-	-	(69) ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	-	-	(0.48) ug/g
1-Methylnaphthalene	0.02 ug/g	-	-	-	(3.4) ug/g
2-Methylnaphthalene	0.02 ug/g	-	-	-	(3.4) ug/g
Methylnaphthalene (1&2)	0.03 ug/g	-	-	-	(3.4) ug/g
Naphthalene	0.01 ug/g	-	-	-	(0.75) ug/g
Phenanthrene	0.02 ug/g	-	-	-	(7.8) ug/g
Pyrene	0.02 ug/g	-	-	-	(78) ug/g
2-Fluorobiphenyl	Surrogate	-	-	-	
Terphenyl-d14	Surrogate	-	-	-	

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.160		ug/g	80.3	50-140			
Surrogate: Terphenyl-d14	0.177		ug/g	88.6	50-140			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Physical Characteristics									
% Solids	82.7	0.1	% by Wt.	83.7			1.3	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	0.029			NC	40	
Benzo [a] pyrene	0.024	0.02	ug/g	0.031			25.0	40	
Benzo [b] fluoranthene	0.023	0.02	ug/g	0.024			7.3	40	
Benzo [g,h,i] perylene	0.027	0.02	ug/g	0.026			2.8	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	0.026			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	0.047	0.02	ug/g	0.071			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.029	0.02	ug/g	0.030			4.2	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	0.027			NC	40	
Pyrene	0.034	0.02	ug/g	0.051			38.2	40	
Surrogate: 2-Fluorobiphenyl	0.215		ug/g		87.9	50-140			
Surrogate: Terphenyl-d14	0.205		ug/g		83.2	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Semi-Volatiles								
Acenaphthene	0.113	0.02	ug/g	ND	91.4	50-140		
Acenaphthylene	0.132	0.02	ug/g	ND	107	50-140		
Anthracene	0.133	0.02	ug/g	ND	108	50-140		
Benzo [a] anthracene	0.151	0.02	ug/g	0.029	99.5	50-140		
Benzo [a] pyrene	0.154	0.02	ug/g	0.031	100	50-140		
Benzo [b] fluoranthene	0.135	0.02	ug/g	0.024	90.0	50-140		
Benzo [g,h,i] perylene	0.144	0.02	ug/g	0.026	95.6	50-140		
Benzo [k] fluoranthene	0.118	0.02	ug/g	ND	95.8	50-140		
Chrysene	0.134	0.02	ug/g	0.026	87.8	50-140		
Dibenzo [a,h] anthracene	0.140	0.02	ug/g	ND	114	50-140		
Fluoranthene	0.180	0.02	ug/g	0.071	88.7	50-140		
Fluorene	0.120	0.02	ug/g	ND	97.8	50-140		
Indeno [1,2,3-cd] pyrene	0.167	0.02	ug/g	0.030	111	50-140		
1-Methylnaphthalene	0.138	0.02	ug/g	ND	112	50-140		
2-Methylnaphthalene	0.135	0.02	ug/g	ND	110	50-140		
Naphthalene	0.120	0.01	ug/g	ND	97.1	50-140		
Phenanthrene	0.144	0.02	ug/g	0.027	95.0	50-140		
Pyrene	0.160	0.02	ug/g	0.051	88.7	50-140		
Surrogate: 2-Fluorobiphenyl	0.216		ug/g		88.1	50-140		
Surrogate: Terphenyl-d14	0.204		ug/g		82.8	50-140		



Order #: 2148186

Report Date: 29-Nov-2021
Order Date: 23-Nov-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Qualifier Notes:

QC Qualifiers :

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/Solid results are reported on a dry weight basis unless otherwise indicated
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

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.



Client Name: Tenorex Environmental Ltd
 Contact Name: Sara Sutherland
 Address: 90 Seavale Rd. Toronto, ON
 Telephone: 416-529-9215
 Project Ref: CT-614.03
 Quote #: S.O.
 PO#: _____
 E-mail: S.sutherland@tenorex.com
 Turnaround Time: 1 day 3 day
 2 day Regular
 Date Required: _____
 Page: 1 of 1

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Required Analysis
				date	Time	
1	S	-	1	Oct 5, 2021	4:15 PM	
2						
3						
4						
5						
6						
7						
8						
9						
10						

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

Method of Delivery: Rubber
 Verified By: _____
 Received at Lab: C-LV
 Date/Time: NOV 24 21 11:34
 Temperature: 8.9 °C
 Received By Driver/Depot: SV
 Date/Time: 11/23/2021 15:00
 Temperature: 3.2 °C
 Date/Time: Nov 22 2021 / 4:00 PM
 Temperature: _____ °C
 Date/Time: _____
 Temperature: _____ °C



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59096

Report Date: 3-Dec-2021
Order Date: 26-Nov-2021

Order #: 2149002

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

Parcel ID	Client ID
2149002-01	HA301-A
2149002-05	HA302-D
2149002-06	HA303-A
2149002-08	HA304-A
2149002-10	HA305-A

Approved By: Milian Ralitsch, PhD
Senior Technical Manager

Report Date: 03-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	2-Dec-21	3-Dec-21
PHC F1	CWS Tier 1 - P&T GC-FID	2-Dec-21	3-Dec-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	1-Dec-21	2-Dec-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	2-Dec-21	3-Dec-21
REG 153: VOCs by P&T GC-MS	EPA 8260 - P&T GC-MS	2-Dec-21	3-Dec-21
Solids, %	Gravimetric, calculation	2-Dec-21	3-Dec-21

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 1 Residential
-----------	---------	-------------	--------	---------------------------------------

Physical Characteristics	Client ID:				MDL/Units
	HA301-A	HA302-D	HA303-A	HA304-A	
	25-Nov-2021 2149002-01 Soil	25-Nov-2021 2149002-05 Soil	25-Nov-2021 2149002-06 Soil	25-Nov-2021 2149002-08 Soil	

Criteria:

Reg 153/04 (2011)-Table 1 Residential

	Criteria:			
	HA301-A	HA302-D	HA303-A	HA304-A
	25-Nov-2021 2149002-01 Soil	25-Nov-2021 2149002-05 Soil	25-Nov-2021 2149002-06 Soil	25-Nov-2021 2149002-08 Soil
Physical Characteristics				
% Solids	84.7	93.3	85.5	82.3
Volatiles				
Acetone	0.50 ug/g	-	<0.50	<0.50
Benzene	0.02 ug/g	-	<0.02	<0.02
Bromodichloromethane	0.05 ug/g	-	<0.05	<0.05
Bromoform	0.05 ug/g	-	<0.05	<0.05
Bromomethane	0.05 ug/g	-	<0.05	<0.05
Carbon Tetrachloride	0.05 ug/g	-	<0.05	<0.05
Chlorobenzene	0.05 ug/g	-	<0.05	<0.05
Chloroform	0.05 ug/g	-	<0.05	<0.05
Dibromochloromethane	0.05 ug/g	-	<0.05	<0.05
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	<0.05
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05
1,1-Dichloroethane	0.05 ug/g	-	<0.05	<0.05
1,2-Dichloroethane	0.05 ug/g	-	<0.05	<0.05
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05
1,2-Dichloropropane	0.05 ug/g	-	<0.05	<0.05
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	<0.05

	Client ID:				Criteria:		
	Sample Date:		Sample ID:				
	Matrix:	MDL/Units	HA301-A 25-Nov-2021 2149002-01 Soil	HA302-D 25-Nov-2021 2149002-05 Soil		HA303-A 25-Nov-2021 2149002-06 Soil	HA304-A 25-Nov-2021 2149002-08 Soil
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Ethylene dibromide (dibromoethane)	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Hexane	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	<0.50	<0.50	0.5	ug/g
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	<0.50	<0.50	0.5	ug/g
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Methylene Chloride	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Styrene	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Tetrachloroethylene	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Toluene	0.05 ug/g	<0.05	-	<0.05	<0.05	0.2	ug/g
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Trichloroethylene	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
Trichlorofluoromethane	0.05 ug/g	<0.05	-	<0.05	<0.05	0.25	ug/g
Vinyl chloride	0.02 ug/g	<0.02	-	<0.02	<0.02	0.02	ug/g
m,p-Xylenes	0.05 ug/g	<0.05	-	<0.05	<0.05		
o-Xylene	0.05 ug/g	<0.05	-	<0.05	<0.05		
Xylenes, total	0.05 ug/g	<0.05	-	<0.05	<0.05	0.05	ug/g
4-Bromofluorobenzene	Surrogate	86.6%	-	87.2%	87.5%		

	Client ID:	Sample Date:	Sample ID:	Matrix:	MDL/Units	HA301-A	HA302-D	HA303-A	HA304-A	Criteria:
						25-Nov-2021	25-Nov-2021	25-Nov-2021	25-Nov-2021	
						2149002-01	2149002-05	2149002-06	2149002-08	
Dibromofluoromethane	Surrogate	77.1%	-	-	-	75.7%	-	-	75.7%	Reg 153/04 (2011)-Table 1 Residential
Toluene-d8	Surrogate	103%	-	-	-	104%	-	-	103%	
Benzene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.02 ug/g
Ethylbenzene	0.05 ug/g	-	<0.05	-	-	-	-	-	-	0.05 ug/g
Toluene	0.05 ug/g	-	<0.05	-	-	-	-	-	-	0.2 ug/g
m,p-Xylenes	0.05 ug/g	-	<0.05	-	-	-	-	-	-	
o-Xylene	0.05 ug/g	-	<0.05	-	-	-	-	-	-	
Xylenes, total	0.05 ug/g	-	<0.05	-	-	-	-	-	-	0.05 ug/g
Toluene-d8	Surrogate	-	104%	-	-	-	-	-	-	
Hydrocarbons										
F1 PHCs (C6-C10)	7 ug/g	<7	<7	-	-	<7	<7	<7	<7	25 ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	<4	-	-	<4	<4	<4	<4	10 ug/g
F3 PHCs (C16-C34)	8 ug/g	<8	<8	-	-	<8	<8	48	48	240 ug/g
F4 PHCs (C34-C50)	6 ug/g	<6	<6	-	-	<6	<6	<6	<6	120 ug/g
Semi-Volatiles										
Acenaphthene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.072 ug/g
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.093 ug/g
Anthracene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.36 ug/g
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.47 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.68 ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	0.48 ug/g
Chrysene	0.02 ug/g	-	<0.02	-	-	-	-	-	-	2.8 ug/g

	Client ID:				Criteria:
	HA301-A	HA302-D	HA303-A	HA304-A	
	25-Nov-2021 2149002-01 Soil	25-Nov-2021 2149002-05 Soil	25-Nov-2021 2149002-06 Soil	25-Nov-2021 2149002-08 Soil	
Sample Date:	Sample ID:	Matrix:	MDL/Units	Reg 153/04 (2011)-Table 1 Residential	
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	0.1 ug/g
Fluoranthene	0.02 ug/g	-	<0.02	-	0.56 ug/g
Fluorene	0.02 ug/g	-	<0.02	-	0.12 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	-	0.23 ug/g
1-Methylnaphthalene	0.02 ug/g	-	<0.02	-	0.59 ug/g
2-Methylnaphthalene	0.02 ug/g	-	<0.02	-	0.59 ug/g
Methylnaphthalene (1&2)	0.03 ug/g	-	<0.03	-	0.59 ug/g
Naphthalene	0.01 ug/g	-	<0.01	-	0.09 ug/g
Phenanthrene	0.02 ug/g	-	<0.02	-	0.69 ug/g
Pyrene	0.02 ug/g	-	<0.02	-	1 ug/g
2-Fluorobiphenyl	Surrogate	-	104%	-	
Terphenyl-d14	Surrogate	-	108%	-	

Client ID: HA305-A		-	-	-	-
Sample Date: 25-Nov-2021		-	-	-	-
Sample ID: 2149002-10		-	-	-	-
Matrix: Soil		-	-	-	-
MDL/Units					

Criteria:

Reg 153/04 (2011)-Table 1 Residential

Physical Characteristics					
% Solids					
0.1 % by Wt.					
Volatiles					
Acetone	0.50 ug/g	-	-	-	0.5 ug/g
Benzene	0.02 ug/g	-	-	-	0.02 ug/g
Bromodichloromethane	0.05 ug/g	-	-	-	0.05 ug/g
Bromoform	0.05 ug/g	-	-	-	0.05 ug/g
Bromomethane	0.05 ug/g	-	-	-	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	-	-	-	0.05 ug/g
Chlorobenzene	0.05 ug/g	-	-	-	0.05 ug/g
Chloroform	0.05 ug/g	-	-	-	0.05 ug/g
Dibromochloromethane	0.05 ug/g	-	-	-	0.05 ug/g
Dichlorodifluoromethane	0.05 ug/g	-	-	-	0.05 ug/g
1,2-Dichlorobenzene	0.05 ug/g	-	-	-	0.05 ug/g
1,3-Dichlorobenzene	0.05 ug/g	-	-	-	0.05 ug/g
1,4-Dichlorobenzene	0.05 ug/g	-	-	-	0.05 ug/g
1,1-Dichloroethane	0.05 ug/g	-	-	-	0.05 ug/g
1,2-Dichloroethane	0.05 ug/g	-	-	-	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	-	-	-	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	-	-	-	0.05 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	-	-	-	0.05 ug/g
1,2-Dichloropropane	0.05 ug/g	-	-	-	0.05 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	-	-	-	0.05 ug/g

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

	Client ID:	Sample Date:				-	-	-	-	Criteria:					
		Sample ID:									Reg 153/04 (2011)-Table 1 Residential				
		MDL/Units	HA305-A	25-Nov-2021	2149002-10						Soil				
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-	-	-						
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Ethylene dibromide (dibromoethane)	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Hexane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	-	-	-	0.5 ug/g						
Methyl isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	-	-	-	0.5 ug/g						
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Styrene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Toluene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.2 ug/g						
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.25 ug/g						
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	-	-	-	0.02 ug/g						
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-	-							
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-	-							
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05 ug/g						
4-Bromofluorobenzene	Surrogate	87.9%	-	-	-	-	-	-							

Report Date: 03-Dec-2021
Order Date: 26-Nov-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

	Client ID:	Sample Date:	Sample ID:	Matrix:	MDL/Units	Surrogate	Surrogate	-	-	-	-	Criteria:
Dibromofluoromethane												
Toluene-d8												
Hydrocarbons												
F1 PHCs (C6-C10)					7 ug/g							25 ug/g
F2 PHCs (C10-C16)					4 ug/g							10 ug/g
F3 PHCs (C16-C34)					8 ug/g							240 ug/g
F4 PHCs (C34-C50)					6 ug/g							120 ug/g

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
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					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.208		ug/g	105	50-140			
Surrogate: Terphenyl-d14	0.208		ug/g	104	50-140			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	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: 4-Bromofluorobenzene	7.05		ug/g	88.2	50-140			
Surrogate: Dibromofluoromethane	6.89		ug/g	86.1	50-140			
Surrogate: Toluene-d8	8.21		ug/g	103	50-140			
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	8.21		ug/g	103	50-140			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F-1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F-2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F-3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F-4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Physical Characteristics									
% Solids	83.0	0.1	% by Wt.	83.4			0.5	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	0.021			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	0.026			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	0.052			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	0.023			NC	40	
Pyrene	ND	0.02	ug/g	0.030			NC	40	
Surrogate: 2-Fluorobiphenyl	0.261		ug/g		89.8	50-140			
Surrogate: Terphenyl-d14	0.316		ug/g		108	50-140			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	6.45		ug/g		86.4	50-140			
Surrogate: Dibromofluoromethane	5.83		ug/g		78.1	50-140			
Surrogate: Toluene-d8	7.75		ug/g		104	50-140			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	7.75		ug/g		104	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	73	7	ug/g	ND	103	80-120		
F2 PHCs (C10-C16)	72	4	ug/g	ND	78.8	60-140		
F3 PHCs (C16-C34)	186	8	ug/g	ND	90.4	60-140		
F4 PHCs (C34-C50)	147	6	ug/g	ND	99.6	60-140		
Semi-Volatiles								
Acenaphthene	0.099	0.02	ug/g	ND	87.8	50-140		
Acenaphthylene	0.101	0.02	ug/g	ND	89.3	50-140		
Anthracene	0.092	0.02	ug/g	ND	81.6	50-140		
Benzo [a] anthracene	0.130	0.02	ug/g	0.024	93.6	50-140		
Benzo [a] pyrene	0.147	0.02	ug/g	0.030	105	50-140		
Benzo [b] fluoranthene	0.140	0.02	ug/g	0.048	81.8	50-140		
Benzo [g,h,i] perylene	0.134	0.02	ug/g	0.050	74.6	50-140		
Benzo [k] fluoranthene	0.122	0.02	ug/g	ND	108	50-140		
Chrysene	0.127	0.02	ug/g	0.035	81.4	50-140		
Dibenzo [a,h] anthracene	0.105	0.02	ug/g	ND	92.9	50-140		
Fluoranthene	0.143	0.02	ug/g	0.036	95.2	50-140		
Fluorene	0.109	0.02	ug/g	ND	96.6	50-140		
Indeno [1,2,3-cd] pyrene	0.155	0.02	ug/g	0.036	105	50-140		
1-Methylnaphthalene	0.136	0.02	ug/g	0.041	84.1	50-140		
2-Methylnaphthalene	0.143	0.02	ug/g	0.053	79.4	50-140		
Naphthalene	0.124	0.01	ug/g	0.033	80.8	50-140		
Phenanthrene	0.125	0.02	ug/g	0.032	82.3	50-140		
Pyrene	0.127	0.02	ug/g	0.038	79.0	50-140		
Surrogate: 2-Fluorobiphenyl	0.223		ug/g		99.5	50-140		
Surrogate: Terphenyl-d14	0.216		ug/g		96.0	50-140		

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 03-Dec-2021

Order Date: 26-Nov-2021

Project Description: CT2694.03

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/Solid results are reported on a dry weight basis unless otherwise indicated
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.

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.

Parcel ID: 2149002

Chain Of Custody
(Lab Use Only)
No 59096

Parcel Order Number
(Lab Use Only)
2149002

Client Name: **Terrapex Environmental Ltd.**
 Contact Name: **Sara Sutherland**
 Address: **90 Sandstone Rd, Toronto, ON**
M3B 2R7
 Telephone: **416-529-9215**

Project Ref: **CT2694.03**
 Quote #: **S.O.**
 PO#: _____
 E-mail: **S.Sutherland@terrapex**

Page **1** of **1**
 Turnaround Time
 1 day
 2 day
 Regular
 Date Required: _____

Regulation L53/04
 Table 1 Res/Park Med/Fine REG 558 P100
 Table 2 Inq/Coarse Coarse CDME MISA
 Table 3 Agri/Other SU - Silt SU - Storm
 Table _____
 For RSC: Yes No
 Other: _____

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

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Date	Time	Required Analysis
				VOCs	PHCs			
1 HA 301-A	S	-	2	NO	NO	Nov 25 2021	12:35pm	HOLD VOCs PHCs BTEX
2 HA 301-B	S	-	1	NO	NO	Nov 25 2021	1:05pm	
3 HA 302-A	S	-	1	NO	NO	Nov 25 2021	1:00pm	
4 HA 302-B	S	-	1	NO	NO	Nov 25 2021	1:31pm	
5 HA 302-D	S	-	1	NO	NO	Nov 25 2021	4:5pm	X X X
6 HA 303-A	S	-	1	NO	NO	Nov 25 2021	2:50pm	X X
7 HA 303-B	S	-	1	NO	NO	Nov 25 2021	2:35pm	X X X
8 HA 304-A	S	-	1	NO	NO	Nov 25 2021	3:44pm	X X
9 HA 304-B	S	-	1	NO	NO	Nov 25 2021	3:48pm	X X
10 HA 305-A	S	-	1	NO	NO	Nov 25 2021	4:00pm	X X

Received By (Sign): **Mina Nayef**
 Date/Time: **Nov 25, 2021 11:40AM**
 Received By (Print): **Mina Nayef**
 Date/Time: **11 Feb 2021 16:50**
 Temperature: **6.6** °C
 Received at Lab: **Am**
 Date/Time: **29/11/21 10:00**
 Temperature: **5.9** °C
 Method of Delivery: **FABER**
 Verified By: **BS**
 Date/Time: **29/11/21 14:00**
 pH Verified: Dr: _____



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59098

Report Date: 6-Dec-2021
Order Date: 26-Nov-2021

Order #: 2149004

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

Parcel ID	Client ID
2149004-02	Trip Blank
2149004-03	HA333

Milan Ralitsch, PhD
Senior Technical Manager

Approved By:

Report Date: 06-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	2-Dec-21	3-Dec-21
PHC F1	CWS Tier 1 - P&T GC-FID	2-Dec-21	3-Dec-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	2-Dec-21	6-Dec-21
REG 153: VOCs by P&T GC-MS	EPA 8260 - P&T GC-MS	2-Dec-21	3-Dec-21
Solids, %	Gravimetric, calculation	2-Dec-21	3-Dec-21

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 1 Residential
-----------	---------	-------------	--------	---------------------------------------

Client ID:	HA333	-	-
Sample Date:	25-Nov-2021	-	-
Sample ID:	2149004-03	-	-
Matrix:	Soil	-	-
Trip Blank	24-Nov-2021	-	-
Sample ID:	2149004-02	-	-
Matrix:	Soil	-	-
MDL/Units			

Criteria:

Reg 153/04 (2011)-Table 1 Residential

Physical Characteristics			
% Solids	0.1 % by Wt.	90.0	-
Volatiles			
Acetone	0.50 ug/g	<0.50	0.5 ug/g
Benzene	0.02 ug/g	<0.02	0.02 ug/g
Bromodichloromethane	0.05 ug/g	<0.05	0.05 ug/g
Bromoform	0.05 ug/g	<0.05	0.05 ug/g
Bromomethane	0.05 ug/g	<0.05	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05	0.05 ug/g
Chlorobenzene	0.05 ug/g	<0.05	0.05 ug/g
Chloroform	0.05 ug/g	<0.05	0.05 ug/g
Dibromochloromethane	0.05 ug/g	<0.05	0.05 ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05	0.05 ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05	0.05 ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05	0.05 ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05	0.05 ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05	0.05 ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	0.05 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	0.05 ug/g
1,2-Dichloropropane	0.05 ug/g	<0.05	0.05 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	0.05 ug/g

	Client ID:		HA333 25-Nov-2021 2149004-03 Soil	-	-	-	-	Criteria: Reg 153/04 (2011)-Table 1 Residential
	Sample Date:	Trip Blank 24-Nov-2021 2149004-02 Soil						
	Sample ID:	Matrix:						
	MDL/Units							
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-	
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Ethylene dibromide (dibromoethane)	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Hexane	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	-	0.5	ug/g
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	-	0.5	ug/g
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Styrene	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Toluene	0.05 ug/g	<0.05	-	-	-	-	0.2	ug/g
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	-	0.25	ug/g
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	-	0.02	ug/g
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-		
o-Xylene	0.05 ug/g	<0.05	-	-	-	-		
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-	0.05	ug/g
4-Bromofluorobenzene	Surrogate	89.3%	-	-	-	-		

	Client ID:		HA333 25-Nov-2021 2149004-03 Soil	-	-	-	Criteria: Reg 153/04 (2011)-Table 1 Residential
	Sample Date:	Sample ID:					
	Matrix:		Soil	-	-	-	
	MDL/Units						
Dibromofluoromethane	Surrogate	Trip Blank 24-Nov-2021 2149004-02 Soil					
Toluene-d8	Surrogate	83.3%					
Benzene	0.02 ug/g	-	<0.02			0.02	ug/g
Ethylbenzene	0.05 ug/g	-	<0.05			0.05	ug/g
Toluene	0.05 ug/g	-	<0.05			0.2	ug/g
m,p-Xylenes	0.05 ug/g	-	<0.05				
o-Xylene	0.05 ug/g	-	<0.05				
Xylenes, total	0.05 ug/g	-	<0.05			0.05	ug/g
Toluene-d8	Surrogate	-	103%				
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7			25	ug/g
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02			0.072	ug/g
Acenaphthylene	0.02 ug/g	-	<0.02			0.093	ug/g
Anthracene	0.02 ug/g	-	<0.02			0.16	ug/g
Benzo [a] anthracene	0.02 ug/g	-	<0.02			0.36	ug/g
Benzo [a] pyrene	0.02 ug/g	-	<0.02			0.3	ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02			0.47	ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02			0.68	ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02			0.48	ug/g
Chrysene	0.02 ug/g	-	<0.02			2.8	ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02			0.1	ug/g
Fluoranthene	0.02 ug/g	-	<0.02			0.56	ug/g
Fluorene	0.02 ug/g	-	<0.02			0.12	ug/g

Report Date: 06-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

	Client ID:		Sample Date:	Sample ID:	Matrix:	MDL/Units	-	-	-	Criteria:
	Trip Blank	HA333								
Indeno [1,2,3-cd] pyrene	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	<0.02	-	-	-	0.23 ug/g
1-Methylnaphthalene	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	<0.02	-	-	-	0.59 ug/g
2-Methylnaphthalene	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	<0.02	-	-	-	0.59 ug/g
Methylnaphthalene (1&2)	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	<0.03	-	-	-	0.59 ug/g
Naphthalene	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	<0.01	-	-	-	0.09 ug/g
Phenanthrene	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	<0.02	-	-	-	0.69 ug/g
Pyrene	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	<0.02	-	-	-	1 ug/g
2-Fluorobiphenyl	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	107%	-	-	-	
Terphenyl-d14	24-Nov-2021	25-Nov-2021	2149004-02	2149004-03	Soil	115%	-	-	-	

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Hydrocarbons								
F-1 PHCs (C6-C10)	ND	7	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.223		ug/g	112	50-140			
Surrogate: Terphenyl-d14	0.237		ug/g	119	50-140			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
1,1-Dichloroethylene	ND	0.05	ug/g				
cis-1,2-Dichloroethylene	ND	0.05	ug/g				
trans-1,2-Dichloroethylene	ND	0.05	ug/g				
1,2-Dichloropropane	ND	0.05	ug/g				
cis-1,3-Dichloropropylene	ND	0.05	ug/g				
trans-1,3-Dichloropropylene	ND	0.05	ug/g				
1,3-Dichloropropene, total	ND	0.05	ug/g				
Ethylbenzene	ND	0.05	ug/g				
Ethylene dibromide (dibromoethane, 1,2)	ND	0.05	ug/g				
Hexane	ND	0.05	ug/g				
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g				
Methyl Isobutyl Ketone	ND	0.50	ug/g				
Methyl tert-butyl ether	ND	0.05	ug/g				
Methylene Chloride	ND	0.05	ug/g				
Styrene	ND	0.05	ug/g				
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g				
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g				
Tetrachloroethylene	ND	0.05	ug/g				
Toluene	ND	0.05	ug/g				
1,1,1-Trichloroethane	ND	0.05	ug/g				
1,1,2-Trichloroethane	ND	0.05	ug/g				
Trichloroethylene	ND	0.05	ug/g				
Trichlorofluoromethane	ND	0.05	ug/g				
Vinyl chloride	ND	0.02	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: 4-Bromofluorobenzene	7.05		ug/g	88.2	50-140		
Surrogate: Dibromofluoromethane	6.89		ug/g	86.1	50-140		
Surrogate: Toluene-d8	8.21		ug/g	103	50-140		
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	8.21		ug/g	103	50-140		

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F-1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
Physical Characteristics									
% Solids	83.0	0.1	% by Wt.	83.4			0.5	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	0.029	0.02	ug/g	0.024			20.1	40	
Benzo [a] anthracene	0.151	0.02	ug/g	0.131			14.6	40	
Benzo [a] pyrene	0.214	0.02	ug/g	0.176			19.4	40	
Benzo [b] fluoranthene	0.300	0.02	ug/g	0.250			18.5	40	
Benzo [g,h,i] perylene	0.202	0.02	ug/g	0.160			23.6	40	
Benzo [k] fluoranthene	0.123	0.02	ug/g	0.098			23.3	40	
Chrysene	0.207	0.02	ug/g	0.163			23.5	40	
Dibenzo [a,h] anthracene	0.052	0.02	ug/g	0.037			34.1	40	
Fluoranthene	0.461	0.02	ug/g	0.363			23.7	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.157	0.02	ug/g	0.135			15.6	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	0.177	0.02	ug/g	0.148			18.1	40	
Pyrene	0.336	0.02	ug/g	0.246			30.9	40	
Surrogate: 2-Fluorobiphenyl	0.239		ug/g		100	50-140			
Surrogate: Terphenyl-d14	0.297		ug/g		124	50-140			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	6.45		ug/g		86.4	50-140			
Surrogate: Dibromofluoromethane	5.83		ug/g		78.1	50-140			
Surrogate: Toluene-d8	7.75		ug/g		104	50-140			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	7.75		ug/g		104	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Hydrocarbons							
F 1 PHCs (C6-C10)	73	7	ug/g	ND	103	80-120	
Semi-Volatiles							
Acenaphthene	0.125	0.02	ug/g	ND	104	50-140	
Acenaphthylene	0.108	0.02	ug/g	ND	90.8	50-140	
Anthracene	0.125	0.02	ug/g	0.024	84.8	50-140	
Benzo [a] anthracene	0.235	0.02	ug/g	0.131	87.6	50-140	
Benzo [a] pyrene	0.316	0.02	ug/g	0.176	117	50-140	
Benzo [b] fluoranthene	0.376	0.02	ug/g	0.250	106	50-140	
Benzo [g,h,i] perylene	0.332	0.02	ug/g	0.160	145	50-140	
Benzo [k] fluoranthene	0.250	0.02	ug/g	0.098	127	50-140	
Chrysene	0.276	0.02	ug/g	0.163	94.2	50-140	
Dibenzo [a,h] anthracene	0.174	0.02	ug/g	0.037	115	50-140	
Fluoranthene	0.470	0.02	ug/g	0.363	89.7	50-140	
Fluorene	0.132	0.02	ug/g	ND	111	50-140	
Indeno [1,2,3-cd] pyrene	0.287	0.02	ug/g	0.135	128	50-140	
1-Methylnaphthalene	0.125	0.02	ug/g	ND	105	50-140	
2-Methylnaphthalene	0.114	0.02	ug/g	ND	95.6	50-140	
Naphthalene	0.112	0.01	ug/g	ND	93.5	50-140	
Phenanthrene	0.247	0.02	ug/g	0.148	82.9	50-140	
Pyrene	0.355	0.02	ug/g	0.246	91.5	50-140	
Surrogate: 2-Fluorobiphenyl	0.261		ug/g		110	50-140	
Surrogate: Terphenyl-d14	0.279		ug/g		117	50-140	

QM-07

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 06-Dec-2021

Order Date: 26-Nov-2021

Project Description: CT2694.03

Qualifier Notes:

QC Qualifiers :

QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

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/Solid results are reported on a dry weight basis unless otherwise indicated

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.

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.



Project Ref: CT2674.03
 Quote #: S.O.
 PO #: _____
 Email: S.Sutherland@terrapex

Client Name: TERRAPEX Environmental Ltd.
 Contact Name: Sara Sutherland
 Address: 90 Scarsdale Rd. Toronto, ON
M3B 2R7
 Telephone: 416-529-9215

Turnaround Time
 1 day
 2 day
 3 day
 Regular

Regulation 153/04
 Table 1 Res/Park Med/Fine PW00
 Table 2 Ind/Comm Coarse COME MISA
 Table 3 Agri/Other SU - San SU - Storm
 Table _____
 For BSC: Yes No
 Other: _____

Sample ID/Location Name	Matrix	# of Containers	Air Volume	Sample Taken		Date	Time	Required Analysis
				P (Paint)	A (Air)			
1 HAB05-B	S	2				Nov 25, 2021	4:15 PM	VOCs BTEX HOLD PARTS
2 Trip Blank	S	1				Nov 24, 2021	9:00 AM	
3 HA.333	S	2				Nov 25, 2021		
4								
5								
6								
7								
8								
9								
10								

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

Method of Delivery: RABK

Relinquished By (Sign): Mira Wang
 Relinquished By (Print): Mira Wang
 Date/Time: Nov 26, 2021 11:41 AM

Received at Lab: AM
 Date/Time: 29/11/21 10:00
 Temperature: 5.9 °C

Verified By: BB
 Date/Time: 29/11/21 10:00am
 pH Verified: By _____



TRUSTED.
RESPONSIVE.
RELIABLE.

1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 128030

Report Date: 1-Apr-2022
Order Date: 1-Feb-2022

Order #: 2206182

Revised Report

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

Paracel ID	Client ID
2206182-01	GS401-1
2206182-02	GS402-2
2206182-03	GS403-2
2206182-04	GS404-2
2206182-05	GS405-1
2206182-06	GS406-1
2206182-07	GS407-1
2206182-08	GS408-1
2206182-09	GS4000

Approved By:



Alex Enfield, MSc
Lab Manager

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 01-Apr-2022

Order Date: 1-Feb-2022

Project Description: CT2694.03

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	1-Apr-22	1-Apr-22
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	4-Feb-22	7-Feb-22
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	3-Feb-22	4-Feb-22
Solids, %	Gravimetric, calculation	4-Feb-22	7-Feb-22

Report Date: 01-Apr-2022
Order Date: 1-Feb-2022
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Summary of Criteria Exceedances

(If this page is blank then there are no exceedances)
Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T1 Res
				-

Report Date: 01-Apr-2022
 Order Date: 1-Feb-2022
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Client ID:	GS401-1	GS402-2	GS403-2	GS404-2	Criteria:
Sample Date:	28-Jan-22 08:00	28-Jan-22 08:15	28-Jan-22 08:30	28-Jan-22 08:45	Reg 153/04 -T1 Res
Sample ID:	2206182-01	2206182-02	2206182-03	2206182-04	-
Matrix:	Soil	Soil	Soil	Soil	
MDL/Units					

Physical Characteristics

% Solids	78.4	80.1	83.2	87.8	-
0.1 % by Wt.					

Metals

	MDL/Units	GS401-1	GS402-2	GS403-2	GS404-2	Criteria:
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	4.8	4.3	2.0	3.6	18 ug/g
Barium	1.0 ug/g	55.4	61.7	38.6	50.7	220 ug/g
Beryllium	0.5 ug/g	<0.5	0.6	<0.5	<0.5	2.5 ug/g
Boron	5.0 ug/g	5.9	6.8	<5.0	7.0	36 ug/g
Boron, available	0.5 ug/g	-	-	<0.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	16.2	17.9	14.5	13.9	70 ug/g
Cobalt	1.0 ug/g	5.9	7.1	4.2	4.8	21 ug/g
Copper	5.0 ug/g	14.6	17.2	6.2	12.2	92 ug/g
Lead	1.0 ug/g	16.9	12.4	4.8	14.1	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	12.4	13.9	8.0	9.8	82 ug/g
Selenium	1.0 ug/g	1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	32.0	35.5	28.9	28.1	86 ug/g
Zinc	20.0 ug/g	52.7	53.3	32.7	39.1	290 ug/g

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.072 ug/g
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.093 ug/g
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.16 ug/g

Client ID:	GS401-1	GS402-2	GS403-2	GS404-2	Criteria:
Sample Date:	28-Jan-22 08:00	28-Jan-22 08:15	28-Jan-22 08:30	28-Jan-22 08:45	Reg 153/04 -T1 Res
Sample ID:	2206182-01	2206182-02	2206182-03	2206182-04	-
Matrix:	Soil	Soil	Soil	Soil	

Semi-Volatiles

	MDL/Units	GS401-1	GS402-2	GS403-2	GS404-2	Criteria:
Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.36 ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.47 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.68 ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.48 ug/g
Chrysene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	2.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.1 ug/g
Fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.56 ug/g
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.12 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.23 ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	0.59 ug/g
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	<0.01	0.09 ug/g
Phenanthrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.69 ug/g
Pyrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	1 ug/g
2-Fluorobiphenyl	Surrogate	74.9%	72.1%	68.1%	72.4%	-
Terphenyl-d14	Surrogate	87.3%	88.2%	91.6%	90.2%	-

Client ID:	GS405-1	GS406-1	GS407-1	GS408-1	Criteria:
Sample Date:	28-Jan-22 09:30	28-Jan-22 09:45	28-Jan-22 10:00	28-Jan-22 11:00	Reg 153/04 -T1 Res
Sample ID:	2206182-05	2206182-06	2206182-07	2206182-08	-
Matrix:	Soil	Soil	Soil	Soil	-

Physical Characteristics		MDL/Units		84.1		84.7		86.1		87.8	
% Solids		0.1 % by Wt.		84.1		84.7		86.1		87.8	
Metals											
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	1.7	2.5	2.4	2.4	2.4	2.4	2.4	2.4	3.3	18 ug/g
Barium	1.0 ug/g	54.8	55.4	87.0	87.0	87.0	87.0	87.0	87.0	51.9	220 ug/g
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	2.5 ug/g
Boron	5.0 ug/g	<5.0	<5.0	6.2	6.2	6.2	6.2	6.2	6.2	<5.0	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	15.9	18.6	21.2	21.2	21.2	21.2	21.2	21.2	18.4	70 ug/g
Cobalt	1.0 ug/g	5.6	6.6	6.3	6.3	6.3	6.3	6.3	6.3	7.6	21 ug/g
Copper	5.0 ug/g	7.1	8.9	13.8	13.8	13.8	13.8	13.8	13.8	9.6	92 ug/g
Lead	1.0 ug/g	6.3	8.1	5.4	5.4	5.4	5.4	5.4	5.4	8.7	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	8.2	11.0	14.8	14.8	14.8	14.8	14.8	14.8	13.2	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	36.0	38.1	35.4	35.4	35.4	35.4	35.4	35.4	37.3	86 ug/g
Zinc	20.0 ug/g	62.2	45.0	28.8	28.8	28.8	28.8	28.8	28.8	31.0	290 ug/g
Semi-Volatiles											
Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.072 ug/g
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.093 ug/g
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.36 ug/g

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Report Date: 01-Apr-2022
 Order Date: 1-Feb-2022
 Project Description: CT2694.03
 Client PO:

Client ID:	GS405-1	GS406-1	GS407-1	GS408-1	Criteria:
Sample Date:	28-Jan-22 09:30	28-Jan-22 09:45	28-Jan-22 10:00	28-Jan-22 11:00	Reg 153/04 -T1 Res
Sample ID:	2206182-05	2206182-06	2206182-07	2206182-08	
Matrix:	Soil	Soil	Soil	Soil	

Semi-Volatiles

	MDL/Units				
Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.47 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	0.68 ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.48 ug/g
Chrysene	0.02 ug/g	<0.02	<0.02	<0.02	2.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.1 ug/g
Fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.56 ug/g
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	0.12 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.23 ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.59 ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.59 ug/g
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	<0.03	<0.03	0.59 ug/g
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	0.09 ug/g
Phenanthrene	0.02 ug/g	<0.02	<0.02	<0.02	0.69 ug/g
Pyrene	0.02 ug/g	<0.02	<0.02	<0.02	1 ug/g
2-Fluorobiphenyl	Surrogate	71.7%	63.9%	75.6%	-
Terphenyl-d14	Surrogate	92.0%	86.3%	93.0%	-

Report Date: 01-Apr-2022
 Order Date: 1-Feb-2022
 Project Description: CT2694.03

 Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Client ID:	GS4000					Criteria:
Sample Date:	28-Jan-22 11:00					Reg 153/04 -T1 Res
Sample ID:	2206182-09					
Matrix:	Soil					
MDL/Units						

Physical Characteristics						
% Solids	0.1 % by Wt.	86.8	-	-	-	-
Metals						
Antimony	1.0 ug/g	<1.0	-	-	-	1.3 ug/g
Arsenic	1.0 ug/g	3.0	-	-	-	18 ug/g
Barium	1.0 ug/g	48.0	-	-	-	220 ug/g
Beryllium	0.5 ug/g	0.5	-	-	-	2.5 ug/g
Boron	5.0 ug/g	<5.0	-	-	-	36 ug/g
Cadmium	0.5 ug/g	<0.5	-	-	-	1.2 ug/g
Chromium	5.0 ug/g	17.9	-	-	-	70 ug/g
Cobalt	1.0 ug/g	7.3	-	-	-	21 ug/g
Copper	5.0 ug/g	8.6	-	-	-	92 ug/g
Lead	1.0 ug/g	8.0	-	-	-	120 ug/g
Molybdenum	1.0 ug/g	<1.0	-	-	-	2 ug/g
Nickel	5.0 ug/g	12.5	-	-	-	82 ug/g
Selenium	1.0 ug/g	<1.0	-	-	-	1.5 ug/g
Silver	0.3 ug/g	<0.3	-	-	-	0.5 ug/g
Thallium	1.0 ug/g	<1.0	-	-	-	1 ug/g
Uranium	1.0 ug/g	<1.0	-	-	-	2.5 ug/g
Vanadium	10.0 ug/g	36.0	-	-	-	86 ug/g
Zinc	20.0 ug/g	29.2	-	-	-	290 ug/g
Semi-Volatiles						
Acenaphthene	0.02 ug/g	<0.02	-	-	-	0.072 ug/g
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	0.093 ug/g
Anthracene	0.02 ug/g	<0.02	-	-	-	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	0.36 ug/g

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Report Date: 01-Apr-2022
 Order Date: 1-Feb-2022
 Project Description: CT2694.03
 Client PO:

Client ID:	GS4000					Criteria:
Sample Date:	28-Jan-22 11:00					Reg 153/04 -T1 Res
Sample ID:	2206182-09					
Matrix:	Soil					
MDL/Units						

Semi-Volatiles

Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.48 ug/g	-
Chrysene	0.02 ug/g	<0.02	-	-	-	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.02	-	-	-	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	-	-	-	0.12 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	0.23 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	0.59 ug/g	-
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	-	-	-	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	-	-	-	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	-	-	-	0.69 ug/g	-
Pyrene	0.02 ug/g	<0.02	-	-	-	1 ug/g	-
2-Fluorobiphenyl	Surrogate	69.7%	-	-	-	-	-
Terphenyl-d14	Surrogate	84.2%	-	-	-	-	-

Report Date: 01-Apr-2022
Order Date: 1-Feb-2022
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC Limit	RPD Limit	RPD Limit	Notes
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	ND	5.0	ug/g				
Cobalt	ND	1.0	ug/g				
Copper	ND	5.0	ug/g				
Lead	ND	1.0	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				
Semi-Volatiles							
Acenaphthene	ND	0.02	ug/g				
Acenaphthylene	ND	0.02	ug/g				
Anthracene	ND	0.02	ug/g				
Benzo [a] anthracene	ND	0.02	ug/g				
Benzo [a] pyrene	ND	0.02	ug/g				
Benzo [b] fluoranthene	ND	0.02	ug/g				
Benzo [g,h,i] perylene	ND	0.02	ug/g				
Benzo [k] fluoranthene	ND	0.02	ug/g				
Chrysene	ND	0.02	ug/g				
Dibenzo [a,h] anthracene	ND	0.02	ug/g				
Fluoranthene	ND	0.02	ug/g				
Fluorene	ND	0.02	ug/g				

Report Date: 01-Apr-2022
Order Date: 1-Feb-2022
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.137		ug/g	68.9	50-140			
Surrogate: Terphenyl-d14	0.184		ug/g	92.2	50-140			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	1.7	1.0	ug/g	1.2			NC	30	
Barium	15.6	1.0	ug/g	13.8			12.4	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron, available	ND	0.5	ug/g	ND			NC	35	
Boron	5.8	5.0	ug/g	ND			NC	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium	7.8	5.0	ug/g	6.1			24.4	30	
Cobalt	1.9	1.0	ug/g	1.8			6.9	30	
Copper	ND	5.0	ug/g	ND			NC	30	
Lead	2.5	1.0	ug/g	2.2			15.4	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	ND	5.0	ug/g	ND			NC	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	19.4	10.0	ug/g	15.1			25.2	30	
Zinc	ND	20.0	ug/g	ND			NC	30	
Physical Characteristics									
% Solids	94.7	0.1	% by Wt.	94.5			0.2	25	
Semi-Volatiles									
Acenaphthene	0.032	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	0.062	0.02	ug/g	0.047			28.3	40	
Benzo [a] anthracene	0.120	0.02	ug/g	0.089			29.5	40	
Benzo [a] pyrene	0.127	0.02	ug/g	0.095			28.3	40	
Benzo [b] fluoranthene	0.142	0.02	ug/g	0.103			31.7	40	
Benzo [g,h,i] perylene	0.070	0.02	ug/g	0.047			38.4	40	
Benzo [k] fluoranthene	0.072	0.02	ug/g	0.055			26.2	40	

Report Date: 01-Apr-2022
 Order Date: 1-Feb-2022
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chrysene	0.134	0.02	ug/g	0.105			24.1	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	0.351	0.02	ug/g	0.246			35.2	40	
Fluorene	0.034	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.092	0.02	ug/g	0.066			32.8	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	0.017	0.01	ug/g	ND			NC	40	
Phenanthrene	0.265	0.02	ug/g	0.175			40.9	40	
Pyrene	0.218	0.02	ug/g	0.172			24.0	40	QR-05
Surrogate: 2-Fluorobiphenyl	0.145		ug/g		67.4	50-140			
Surrogate: Terphenyl-d14	0.195		ug/g		90.2	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	%REC Limit	RPD Limit	RPD Limit	Notes
Metals									
Antimony	138	1.0	ug/g	ND	110	70-130			
Arsenic	132	1.0	ug/g	1.2	105	70-130			
Barium	141	1.0	ug/g	13.8	102	70-130			
Beryllium	119	0.5	ug/g	ND	95.3	70-130			
Boron, available	4.11	0.5	ug/g	ND	82.2	70-122			
Boron	122	5.0	ug/g	ND	97.8	70-130			
Cadmium	124	0.5	ug/g	ND	99.3	70-130			
Chromium	132	5.0	ug/g	6.1	100	70-130			
Cobalt	125	1.0	ug/g	1.8	98.2	70-130			
Copper	126	5.0	ug/g	ND	101	70-130			
Lead	119	1.0	ug/g	2.2	93.2	70-130			
Molybdenum	129	1.0	ug/g	ND	103	70-130			
Nickel	128	5.0	ug/g	ND	103	70-130			
Selenium	125	1.0	ug/g	ND	99.8	70-130			
Silver	117	0.3	ug/g	ND	93.6	70-130			
Thallium	118	1.0	ug/g	ND	94.5	70-130			
Uranium	124	1.0	ug/g	ND	99.3	70-130			
Vanadium	145	10.0	ug/g	15.1	104	70-130			
Zinc	134	20.0	ug/g	ND	107	70-130			
Semi-Volatiles									
Acenaphthene	0.101	0.02	ug/g	ND	93.6	50-140			
Acenaphthylene	0.076	0.02	ug/g	ND	70.5	50-140			
Anthracene	0.110	0.02	ug/g	0.047	58.8	50-140			
Benzo [a] anthracene	0.161	0.02	ug/g	0.089	65.9	50-140			
Benzo [a] pyrene	0.178	0.02	ug/g	0.095	76.3	50-140			
Benzo [b] fluoranthene	0.178	0.02	ug/g	0.103	69.4	50-140			
Benzo [g,h,i] perylene	0.142	0.02	ug/g	0.047	86.8	50-140			
Benzo [k] fluoranthene	0.132	0.02	ug/g	0.055	70.9	50-140			
Chrysene	0.172	0.02	ug/g	0.105	62.1	50-140			
Dibenzo [a,h] anthracene	0.107	0.02	ug/g	ND	98.3	50-140			

Report Date: 01-Apr-2022
Order Date: 1-Feb-2022
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Fluoranthene	0.297	0.02	ug/g	0.246	46.9	50-140		QM-07
Fluorene	0.109	0.02	ug/g	ND	101	50-140		
Indeno [1,2,3-cd] pyrene	0.187	0.02	ug/g	0.066	112	50-140		
1-Methylnaphthalene	0.095	0.02	ug/g	ND	88.0	50-140		
2-Methylnaphthalene	0.087	0.02	ug/g	ND	80.7	50-140		
Naphthalene	0.092	0.01	ug/g	ND	84.9	50-140		
Phenanthrene	0.236	0.02	ug/g	0.175	55.7	50-140		
Pyrene	0.216	0.02	ug/g	0.172	40.7	50-140		QM-07
Surrogate: 2-Fluorobiphenyl	0.159		ug/g		73.6	50-140		
Surrogate: Terphenyl-d14	0.205		ug/g		94.5	50-140		

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 01-Apr-2022

Order Date: 1-Feb-2022

Project Description: CT2694.03

Qualifier Notes:

QC Qualifiers :

QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.
QR-05 : Duplicate RPDs higher than normally accepted. Remaining batch QA/QC was acceptable. May be sample effect.

Login Qualifiers :

Sample - One or more parameter received past hold time - REG 153: Pesticides, OC
Applies to Samples: GS407-1, GS408-1

Sample Data Revisions:

None

Work Order Revisions / Comments:

REVISION-02: This report includes an updated parameter list, as per client

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 unless otherwise noted.

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

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.



Project Ref: CT2694-03 Page 1 of 1

Quote #: TERRAPEX

FO #: ---

E-mail: S.Sutherland@terrapex.com

Turnaround Time
 1 day
 2 day
 Regular

Date Required:

Client Name: TERRAPEX ENVIRONMENTAL LTD.

Contact Name: SARA SUTHERLAND

Address: 90 Scarisville Rd, Toronto, ON
M3B 2R7

Telephone: 416-245-0011

Regulation: 153/04

Other Regulation:
 PMSO
 PEG SSS
 CCME
 SU - San
 SU - Storm

Table 1: Res/Part Med/Fine
 Table 2: Ind/Comm Coarse
 Table 3: Agri/Other
 Table: Muni: Other:

For BSC: Yes No

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

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Time	PHCs F1-F4+BTX	VOCs	PAHs	Metals by ICP	Hb	CMI	B (HWS)
				Date	Time								
1 G5401-1	S	-	1	JAN 28/22	8:00	8:00	X	X	X	X			
2 G5402-2	S	-	1		8:15	8:30	X	X	X	X			
3 G5403-2	S	-	1		8:45	8:45	X	X	X	X			
4 G5404-2	S	-	1		9:30	9:45	X	X	X	X			
5 G5405-1	S	-	1		10:00	10:00	X	X	X	X			
6 G5406-1	S	-	1		11:00	11:00	X	X	X	X			
7 G5407-1	S	-	1				X	X	X	X			
8 G5408-1	S	-	1	JAN 28/22	11:00	11:00	X	X	X	X			
9 G5400	S	-	1										
10													

Required Analysis:

Method of Delivery: LABBOX

Verified By: AW

Date/Time: 2/2/22 12:23

pH Verified: °C

Received at: CT-PEX

Date/Time: Feb 2/22 12:10

Temperature: 5.3 °C

Received By (Driver/Deposit): SA

Date/Time: 02/01/2022 14:10

Temperature: -1.2 °C

Requisitioned By (Client): Al Pink

Requisitioned By (Print): ALAN LI-PING-KING

Date/Time: FEB 1, 2022

Chain of Custody (Env) 153

Revision: 3.0



CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
90 SCARSDALE RD
TORONTO, ON M3B2R7
(905) 474-5265
ATTENTION TO: Sara Sutherland
PROJECT: CT2694.03
AGAT WORK ORDER: 21T845241
TRACE ORGANICS REVIEWED BY: Inga Kuzmina, Trace Organics Lab Manager
DATE REPORTED: Dec 22, 2021
PAGES (INCLUDING COVER): 7
VERSION*: 1

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

*Notes

Disclaimer:

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



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21T845241
PROJECT: CT2694.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
SAMPLING SITE: 2660-2680 Brock Rd, Pickering

ATTENTION TO: Sara Sutherland
SAMPLED BY: MW

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

DATE RECEIVED: 2021-12-15

DATE REPORTED: 2021-12-22

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:		MW1999
				MW203	Water	
		SAMPLE TYPE:		Water		
		DATE SAMPLED:		2021-12-14	2021-12-14	
				14:08	14:15	
		3348441		3348455		
Naphthalene	µg/L		0.20	<0.20	<0.20	
Acenaphthylene	µg/L		0.20	<0.20	<0.20	
Acenaphthene	µg/L		0.20	<0.20	<0.20	
Fluorene	µg/L		0.20	<0.20	<0.20	
Phenanthrene	µg/L		0.10	<0.10	<0.10	
Anthracene	µg/L		0.10	<0.10	<0.10	
Fluoranthene	µg/L		0.20	<0.20	<0.20	
Pyrene	µg/L		0.20	<0.20	<0.20	
Benzo(a)anthracene	µg/L		0.20	<0.20	<0.20	
Chrysene	µg/L		0.10	<0.10	<0.10	
Benzo(b)fluoranthene	µg/L		0.10	<0.10	<0.10	
Benzo(k)fluoranthene	µg/L		0.10	<0.10	<0.10	
Benzo(a)pyrene	µg/L		0.01	<0.01	<0.01	
Indeno(1,2,3-cd)pyrene	µg/L		0.20	<0.20	<0.20	
Dibenz(a,h)anthracene	µg/L		0.20	<0.20	<0.20	
Benzo(g,h,i)perylene	µg/L		0.20	<0.20	<0.20	
2-and 1-methyl Naphthalene	µg/L		0.20	<0.20	<0.20	
Sediment			No	No	No	
Surrogate	Unit	Acceptable Limits				
Naphthalene-d8	%	50-140		78	109	
Acridine-d9	%	50-140		85	82	
Terphenyl-d14	%	50-140		99	99	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3348441-3348455 Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: _____

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
 PROJECT: CT2694.03
 SAMPLING SITE: 2660-2680 Brock Rd, Pickering

AGAT WORK ORDER: 21T845241
 ATTENTION TO: Sara Sutherland
 SAMPLED BY: MW

Trace Organics Analysis

RPT Date: Dec 22, 2021			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

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

Naphthalene	3346261	< 0.20	< 0.20	NA	< 0.20	105%	50%	140%	78%	50%	140%	77%	50%	140%
Acenaphthylene	3346261	< 0.20	< 0.20	NA	< 0.20	98%	50%	140%	82%	50%	140%	107%	50%	140%
Acenaphthene	3346261	< 0.20	< 0.20	NA	< 0.20	105%	50%	140%	71%	50%	140%	81%	50%	140%
Fluorene	3346261	< 0.20	< 0.20	NA	< 0.20	86%	50%	140%	92%	50%	140%	92%	50%	140%
Phenanthrene	3346261	< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	88%	50%	140%	85%	50%	140%
Anthracene	3346261	< 0.10	< 0.10	NA	< 0.10	85%	50%	140%	93%	50%	140%	78%	50%	140%
Fluoranthene	3346261	< 0.20	< 0.20	NA	< 0.20	99%	50%	140%	96%	50%	140%	93%	50%	140%
Pyrene	3346261	< 0.20	< 0.20	NA	< 0.20	78%	50%	140%	96%	50%	140%	99%	50%	140%
Benzo(a)anthracene	3346261	< 0.20	< 0.20	NA	< 0.20	96%	50%	140%	94%	50%	140%	96%	50%	140%
Chrysene	3346261	< 0.10	< 0.10	NA	< 0.10	86%	50%	140%	114%	50%	140%	84%	50%	140%
Benzo(b)fluoranthene	3346261	< 0.10	< 0.10	NA	< 0.10	92%	50%	140%	76%	50%	140%	92%	50%	140%
Benzo(k)fluoranthene	3346261	< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	92%	50%	140%	78%	50%	140%
Benzo(a)pyrene	3346261	< 0.01	< 0.01	NA	< 0.01	78%	50%	140%	105%	50%	140%	101%	50%	140%
Indeno(1,2,3-cd)pyrene	3346261	< 0.20	< 0.20	NA	< 0.20	92%	50%	140%	108%	50%	140%	105%	50%	140%
Dibenz(a,h)anthracene	3346261	< 0.20	< 0.20	NA	< 0.20	95%	50%	140%	75%	50%	140%	72%	50%	140%
Benzo(g,h,i)perylene	3346261	< 0.20	< 0.20	NA	< 0.20	91%	50%	140%	85%	50%	140%	105%	50%	140%

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

Certified By: _____





AGAT Laboratories

Time Markers

AGAT WORK ORDER: 21T845241
PROJECT: CT2694.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Sara Sutherland

Sample ID	Sample Description	Sample Type	Date Sampled	Date Analyzed	Date Received
3348441	MW203	Water	14-DEC-2021	15-DEC-2021	15-DEC-2021

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	22-DEC-2021	22-DEC-2021	PP
Acenaphthylene	22-DEC-2021	22-DEC-2021	PP
Acenaphthene	22-DEC-2021	22-DEC-2021	PP
Fluorene	22-DEC-2021	22-DEC-2021	PP
Phenanthrene	22-DEC-2021	22-DEC-2021	PP
Anthracene	22-DEC-2021	22-DEC-2021	PP
Fluoranthene	22-DEC-2021	22-DEC-2021	PP
Pyrene	22-DEC-2021	22-DEC-2021	PP
Benzo(a)anthracene	22-DEC-2021	22-DEC-2021	PP
Chrysene	22-DEC-2021	22-DEC-2021	PP
Benzo(b)fluoranthene	22-DEC-2021	22-DEC-2021	PP
Benzo(k)fluoranthene	22-DEC-2021	22-DEC-2021	PP
Benzo(a)pyrene	22-DEC-2021	22-DEC-2021	PP
Indeno(1,2,3-cd)pyrene	22-DEC-2021	22-DEC-2021	PP
Dibenz(a,h)anthracene	22-DEC-2021	22-DEC-2021	PP
Benzo(g,h,i)perylene	22-DEC-2021	22-DEC-2021	PP
2-and 1-methyl Naphthalene	22-DEC-2021	22-DEC-2021	SYS
Naphthalene-d8	22-DEC-2021	22-DEC-2021	PP
Acridine-d9	22-DEC-2021	22-DEC-2021	PP
Terphenyl-d14	22-DEC-2021	22-DEC-2021	PP
Sediment	22-DEC-2021	22-DEC-2021	PP

3348455	MW1999	Water	14-DEC-2021	15-DEC-2021	15-DEC-2021
---------	--------	-------	-------------	-------------	-------------

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	22-DEC-2021	22-DEC-2021	PP
Acenaphthylene	22-DEC-2021	22-DEC-2021	PP
Acenaphthene	22-DEC-2021	22-DEC-2021	PP
Fluorene	22-DEC-2021	22-DEC-2021	PP
Phenanthrene	22-DEC-2021	22-DEC-2021	PP
Anthracene	22-DEC-2021	22-DEC-2021	PP
Fluoranthene	22-DEC-2021	22-DEC-2021	PP
Pyrene	22-DEC-2021	22-DEC-2021	PP
Benzo(a)anthracene	22-DEC-2021	22-DEC-2021	PP
Chrysene	22-DEC-2021	22-DEC-2021	PP
Benzo(b)fluoranthene	22-DEC-2021	22-DEC-2021	PP
Benzo(k)fluoranthene	22-DEC-2021	22-DEC-2021	PP
Benzo(a)pyrene	22-DEC-2021	22-DEC-2021	PP



AGAT Laboratories

Time Markers

AGAT WORK ORDER: 21T845241
PROJECT: CT2694.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Sara Sutherland

Sample ID	Sample Description	Sample Type	Date Sampled	Date Analyzed	Date Received
3348455	MW1999	Water	14-DEC-2021	15-DEC-2021	15-DEC-2021

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

Parameter	Date Prepared	Date Analyzed	Initials
Indeno(1,2,3-cd)pyrene	22-DEC-2021	22-DEC-2021	PP
Dibenz(a,h)anthracene	22-DEC-2021	22-DEC-2021	PP
Benzo(g,h,i)perylene	22-DEC-2021	22-DEC-2021	PP
2-and 1-methyl Naphthalene	22-DEC-2021	22-DEC-2021	SYS
Naphthalene-d8	22-DEC-2021	22-DEC-2021	PP
Acridine-d9	22-DEC-2021	22-DEC-2021	PP
Terphenyl-d14	22-DEC-2021	22-DEC-2021	PP
Sediment	22-DEC-2021	22-DEC-2021	PP

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 21T845241

PROJECT: CT2694.03

ATTENTION TO: Sara Sutherland

SAMPLING SITE: 2660-2680 Brock Rd, Pickering

SAMPLED BY: MW

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			



Laboratories

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

Chain of Custody Record

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

Report Information:

Company: Terrapex
Contact: Sara Sutherland
Address: 90 9th St. Scarisdale Rd.
Toronto ON
416-529-9215 Fax:
S. Sutherland @ terrapex.com

Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04
 Excess Soils R406
 Table: Sewer Use
 Sanitary Storm
 Ind/Com
 Res/Park
 Agriculture
 Soil Texture (Check One)
 Coarse
 Fine

Project Information:

Project: C-2694.03
Site Location: 2660-2680 Brock Rd. Pickering
Sampled By: MW
AGAT Quote #: TPEX S.O. PO:

Invoice Information:

Company:
Contact:
Address:
Email: Accounts Payable @ terrapex.com

Regulatory Requirements:

Sewer Use
 Sanitary Storm
 Region:
 Prov. Water Quality Objectives (PWQO)
 Other
 Indicate One

Report Guideline on Certificate of Analysis

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

Sample Matrix Legend

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

Field Filtered - Metals, Hg, CrVI, DOC

Metals & Inorganics
 Metals Hg HWSB
 BTEX, F1-F4 PHCS
 Yes No
 PAHs
 Yes No
 Analyte F46 if required Yes No

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC	Metals & Inorganics	BTEX, F1-F4 PHCS	PAHs	VOC	Landfill Disposal Characterization TCLP	TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> B(a)P <input type="checkbox"/> PCBs	Excess Soils SPLP Rainwater Leach	SPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs	Excess Soils Characterization Package	pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
MW 203	Dec 14/21	2:08 AM	2	GW		ZZ												
MW 1999	"	2:15 PM	2	GW														

Samples Relinquished By: [Signature] Name and Sign: [Signature]
 Date: Dec 14/21 4:50 PM Time: 4:50 PM
 Samples Received By: [Signature] Name and Sign: [Signature]
 Date: Dec 15/21 2:00 PM Time: 2:00 PM
 Samples Received By: [Signature] Name and Sign: [Signature]
 Date: Dec 15/21 10:30 AM Time: 10:30 AM

Laboratory Use Only
 Work Order #: 2IT845241
 Cooler Quantity: 16
 Arrival Temperatures: 38.35
 28.25
 Custody Seal Intact: Yes No N/A
 Notes:

Turnaround Time (TAT) Required:
 Regular TAT: 5 to 7 Business Days
 Rush TAT (Rush Surcharge as apply): 3 Business Days 2 Business Days
 Next Business Day
 OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
 *TAT is exclusive of weekends and statutory holidays
 For 'Same Day' analysis, please contact your AGAT CPM

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
90 SCARSDALE RD
TORONTO, ON M3B2R7
(905) 474-5265
ATTENTION TO: Sara Sutherland
PROJECT: CT2694.03
AGAT WORK ORDER: 22T853695
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jan 21, 2022
PAGES (INCLUDING COVER): 7
VERSION*: 1

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

*Notes

Disclaimer:

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



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 22T853695
PROJECT: CT2694.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
SAMPLING SITE: 2660-2680 Brock Rd, Pickering, ON

ATTENTION TO: Sara Sutherland
SAMPLED BY: SJ

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

DATE RECEIVED: 2022-01-14

DATE REPORTED: 2022-01-21

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION:		MW2000
				Water	Water	
		DATE SAMPLED:	DATE SAMPLED:			
Naphthalene	µg/L	0.20	<0.20	2022-01-13	2022-01-13	<0.20
Acenaphthylene	µg/L	0.20	<0.20	11:12	11:12	<0.20
Acenaphthene	µg/L	0.20	<0.20	3428786	3428796	<0.20
Fluorene	µg/L	0.20	<0.20			<0.20
Phenanthrene	µg/L	0.10	<0.10			<0.10
Anthracene	µg/L	0.10	<0.10			<0.10
Fluoranthene	µg/L	0.20	<0.20			<0.20
Pyrene	µg/L	0.20	<0.20			<0.20
Benzo(a)anthracene	µg/L	0.20	<0.20			<0.20
Chrysene	µg/L	0.10	<0.10			<0.10
Benzo(b)fluoranthene	µg/L	0.10	<0.10			<0.10
Benzo(k)fluoranthene	µg/L	0.10	<0.10			<0.10
Benzo(a)pyrene	µg/L	0.01	<0.01			<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.20	<0.20			<0.20
Dibenz(a,h)anthracene	µg/L	0.20	<0.20			<0.20
Benzo(g,h,i)perylene	µg/L	0.20	<0.20			<0.20
2-and 1-methyl Naphthalene	µg/L	0.20	<0.20			<0.20
Sediment						
Surrogate	Unit	Acceptable Limits				
Naphthalene-d8	%	50-140	78			78
Acridine-d9	%	50-140	84			75
Terphenyl-d14	%	50-140	75			94

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3428786-3428796 Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
 PROJECT: CT2694.03
 SAMPLING SITE: 2660-2680 Brock Rd, Pickering, ON

AGAT WORK ORDER: 22T853695
 ATTENTION TO: Sara Sutherland
 SAMPLED BY: SJ

Trace Organics Analysis

RPT Date: Jan 21, 2022			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

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

Naphthalene	3423062		< 0.20	< 0.20	NA	< 0.20	108%	50%	140%	109%	50%	140%	89%	50%	140%
Acenaphthylene	3423062		< 0.20	< 0.20	NA	< 0.20	85%	50%	140%	83%	50%	140%	71%	50%	140%
Acenaphthene	3423062		< 0.20	< 0.20	NA	< 0.20	93%	50%	140%	92%	50%	140%	83%	50%	140%
Fluorene	3423062		< 0.20	< 0.20	NA	< 0.20	92%	50%	140%	91%	50%	140%	92%	50%	140%
Phenanthrene	3423062		< 0.10	< 0.10	NA	< 0.10	91%	50%	140%	98%	50%	140%	94%	50%	140%
Anthracene	3423062		< 0.10	< 0.10	NA	< 0.10	78%	50%	140%	78%	50%	140%	98%	50%	140%
Fluoranthene	3423062		< 0.20	< 0.20	NA	< 0.20	85%	50%	140%	85%	50%	140%	85%	50%	140%
Pyrene	3423062		< 0.20	< 0.20	NA	< 0.20	93%	50%	140%	93%	50%	140%	102%	50%	140%
Benzo(a)anthracene	3423062		< 0.20	< 0.20	NA	< 0.20	92%	50%	140%	105%	50%	140%	98%	50%	140%
Chrysene	3423062		< 0.10	< 0.10	NA	< 0.10	105%	50%	140%	78%	50%	140%	75%	50%	140%
Benzo(b)fluoranthene	3423062		< 0.10	< 0.10	NA	< 0.10	78%	50%	140%	85%	50%	140%	93%	50%	140%
Benzo(k)fluoranthene	3423062		< 0.10	< 0.10	NA	< 0.10	85%	50%	140%	93%	50%	140%	91%	50%	140%
Benzo(a)pyrene	3423062		< 0.01	< 0.01	NA	< 0.01	93%	50%	140%	92%	50%	140%	105%	50%	140%
Indeno(1,2,3-cd)pyrene	3423062		< 0.20	< 0.20	NA	< 0.20	93%	50%	140%	97%	50%	140%	77%	50%	140%
Dibenz(a,h)anthracene	3423062		< 0.20	< 0.20	NA	< 0.20	92%	50%	140%	88%	50%	140%	85%	50%	140%
Benzo(g,h,i)perylene	3423062		< 0.20	< 0.20	NA	< 0.20	97%	50%	140%	72%	50%	140%	93%	50%	140%

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

Certified By: _____





AGAT Laboratories

Time Markers

AGAT WORK ORDER: 22T853695
PROJECT: CT2694.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Sara Sutherland

Sample ID	Sample Description	Sample Type	Date Sampled	Date Analyzed	Date Received
3428786	MW200	Water	13-JAN-2022	14-JAN-2022	

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	18-JAN-2022	19-JAN-2022	NKS
Acenaphthylene	18-JAN-2022	19-JAN-2022	NKS
Acenaphthene	18-JAN-2022	19-JAN-2022	NKS
Fluorene	18-JAN-2022	19-JAN-2022	NKS
Phenanthrene	18-JAN-2022	19-JAN-2022	NKS
Anthracene	18-JAN-2022	19-JAN-2022	NKS
Fluoranthene	18-JAN-2022	19-JAN-2022	NKS
Pyrene	18-JAN-2022	19-JAN-2022	NKS
Benzo(a)anthracene	18-JAN-2022	19-JAN-2022	NKS
Chrysene	18-JAN-2022	19-JAN-2022	NKS
Benzo(b)fluoranthene	18-JAN-2022	19-JAN-2022	NKS
Benzo(k)fluoranthene	18-JAN-2022	19-JAN-2022	NKS
Benzo(a)pyrene	18-JAN-2022	19-JAN-2022	NKS
Indeno(1,2,3-cd)pyrene	18-JAN-2022	19-JAN-2022	NKS
Dibenz(a,h)anthracene	18-JAN-2022	19-JAN-2022	NKS
Benzo(g,h,i)perylene	18-JAN-2022	19-JAN-2022	NKS
2-and 1-methyl Naphthalene	19-JAN-2022	19-JAN-2022	SYS
Naphthalene-d8	18-JAN-2022	19-JAN-2022	NKS
Acridine-d9	18-JAN-2022	19-JAN-2022	NKS
Terphenyl-d14	18-JAN-2022	19-JAN-2022	NKS
Sediment	18-JAN-2022	19-JAN-2022	NKS

3428796	MW2000	Water	13-JAN-2022	14-JAN-2022	
---------	--------	-------	-------------	-------------	--

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	18-JAN-2022	19-JAN-2022	NKS
Acenaphthylene	18-JAN-2022	19-JAN-2022	NKS
Acenaphthene	18-JAN-2022	19-JAN-2022	NKS
Fluorene	18-JAN-2022	19-JAN-2022	NKS
Phenanthrene	18-JAN-2022	19-JAN-2022	NKS
Anthracene	18-JAN-2022	19-JAN-2022	NKS
Fluoranthene	18-JAN-2022	19-JAN-2022	NKS
Pyrene	18-JAN-2022	19-JAN-2022	NKS
Benzo(a)anthracene	18-JAN-2022	19-JAN-2022	NKS
Chrysene	18-JAN-2022	19-JAN-2022	NKS
Benzo(b)fluoranthene	18-JAN-2022	19-JAN-2022	NKS
Benzo(k)fluoranthene	18-JAN-2022	19-JAN-2022	NKS
Benzo(a)pyrene	18-JAN-2022	19-JAN-2022	NKS



AGAT Laboratories

Time Markers

AGAT WORK ORDER: 22T853695
PROJECT: CT2694.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Sara Sutherland

Sample ID	Sample Description	Sample Type	Date Sampled	Date Analyzed	Date Received
3428796	MW/2000	Water	13-JAN-2022	19-JAN-2022	14-JAN-2022

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

Parameter	Date Prepared	Date Analyzed	Initials
Indeno(1,2,3-cd)pyrene	18-JAN-2022	19-JAN-2022	NKS
Dibenz(a,h)anthracene	18-JAN-2022	19-JAN-2022	NKS
Benzo(g,h,i)perylene	18-JAN-2022	19-JAN-2022	NKS
2-and 1-methyl Naphthalene	19-JAN-2022	19-JAN-2022	SYS
Naphthalene-d8	18-JAN-2022	19-JAN-2022	NKS
Acridine-d9	18-JAN-2022	19-JAN-2022	NKS
Terphenyl-d14	18-JAN-2022	19-JAN-2022	NKS
Sediment	18-JAN-2022	19-JAN-2022	NKS



Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
 PROJECT: CT2694.03
 SAMPLING SITE: 2660-2680 Brock Rd, Pickering, ON

AGAT WORK ORDER: 22T853695
 ATTENTION TO: Sara Sutherland
 SAMPLED BY: SJ

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			



Laboratories

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

Chain of Custody Record

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

Report Information:

Company: Terrapex Environmental Ltd
Contact: Sara Sutherland
Address: 90 Scarsdale Rd M3B2R7 Toronto ON
Phone: 416-529-9215 Fax:
Reports to be sent to: s.sutherland@terrapex.com
1. Email:
2. Email:

Regulatory Requirements:

Regulation 153/04 Excess Soils R406
Table 1 Indicate One
 Lind/Corn Sewer Use
 Res/Park Sanitary Storm
 Agriculture Region
Soil Texture (Check One) CCME Prov. Water Quality Objectives (PWQO)
 Coarse Other
 Fine Indicate One

Project Information:

Project: CT2694.03
Site Location: 2660-2680 Beck Rd, Pickering ON
Sampled By: SJ
AGAT Quote #: Terrapex SO PO:

Invoice Information:

Company: Terrapex Environmental Ltd
Contact: accounts.payable@terrapex.com
Address: s.sutherland@terrapex.com
Email: Bill To Same: Yes No

Is this submission for a Record of Site Condition?

Yes No

Report Guideline on Certificate of Analysis

Yes No

Sample Matrix Legend

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

Sample Matrix

Sample Matrix: GW
OTN

Comments/Special Instructions

Field Filtered - Metals, Hg, CrVI, DOC

Y / N
ZZ

Metals & Inorganics

Metals - CrVI, Hg, HWSB
BTEX, F1-F4 PHCs
Analyze F4g if required Yes No
PAHs
PCBS
VOC

Landfill Disposal Characterization TCLP

TCLP - Msl, VOCs, AAs, BAP, PCBs
Excess Soils SPLP Rainwater Leach
SPLP - Metals, VOCs, SVOCs
Excess Soils Characterization Package
pH, ICPMS Metals, BTEX, F1-F4
Salt - EC/SAR

0. Reg 406

Potentially Hazardous or High Concentration (Y/N)
ZZ

Laboratory Use Only

Work Order #: 22T853695
Cooler Quantity: Wed
Arrival Temperatures: 37.34 37
16 27.25 27
Custody Seal Intact: Yes No N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

3 Business Days 2 Business Days Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

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

Sampled By: Sabana Iqani
Date: Jan 13/22 11:12 AM
Time: 11:12 AM
Date: Jan 13/22 12:35 PM
Time: 11:41 AM
Date: Jan 14/22 10:26 AM
Time: 10:26 AM



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 133211

Report Date: 22-Oct-2021
Order Date: 18-Oct-2021

Order #: 2143092

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

Paracel ID	Client ID
2143092-01	MW206
2143092-02	MW3D
2143092-03	MW1S
2143092-04	MW9206
2143092-05	MW93D

Approved By:

Milan Ralitsch, PhD
Senior Technical Manager

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

 Report Date: 22-Oct-2021
 Order Date: 18-Oct-2021
 Project Description: CT2694.03

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Anions	EPA 300.1 - IC	20-Oct-21	20-Oct-21
BTEX by P&T GC-MS	EPA 624 - P&T GC-MS	20-Oct-21	20-Oct-21
Chromium, hexavalent - water	MOE E3056 - colourimetric	20-Oct-21	20-Oct-21
Cyanide, free	MOE E3015 - Auto Colour	19-Oct-21	19-Oct-21
Mercury by CVAA	EPA 245.2 - Cold Vapour AA	21-Oct-21	21-Oct-21
pH	EPA 150.1 - pH probe @25 °C	20-Oct-21	20-Oct-21
PHC F1	CWS Tier 1 - P&T GC-FID	19-Oct-21	20-Oct-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	21-Oct-21	22-Oct-21
REG 153: Metals by ICP/MS, water	EPA 200.8, ICP-MS	20-Oct-21	20-Oct-21
REG 153: PAHs by GC-MS	EPA 625 - GC-MS, extraction	22-Oct-21	22-Oct-21
REG 153: VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	20-Oct-21	20-Oct-21

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Report Date: 22-Oct-2021
 Order Date: 18-Oct-2021
 Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Potable Groundwater
MW206	F2 PHCs (C10-C16)	100 ug/L	678	(150) ug/L

		Client ID:	MW206	MW3D	MW1S	MW9206		
		Sample Date:	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021		
		Sample ID:	2143092-01	2143092-02	2143092-03	2143092-04		
		Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
		MDL/Units						

Criteria:

Reg 153/04 (2011)-Table 2 Potable Groundwater

General Inorganics

Cyanide, free	2 ug/L	<2	<2	<2	<2	<2			
pH	0.1 pH Units	7.5	7.2	7.7	7.4				(66) (5 - 9)

Anions

Chloride	1.0 mg/L	148	726	4.3	152				(790,000)
----------	----------	-----	-----	-----	-----	--	--	--	-----------

Metals

Mercury	0.1 ug/L	<0.1	<0.1	<0.1	<0.1	<0.1			(1)
Antimony	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	<0.5			(6)
Arsenic	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0			(25)
Barium	1.0 ug/L	67.9	142	39.2	66.3				(1,000)
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	<0.5			(4)
Boron	10.0 ug/L	13.6	25.8	49.4	15.1				(5,000)
Cadmium	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	<0.2			(2.7)
Chromium	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0			(50)
Chromium (VI)	10 ug/L	<10	<10	<10	<10	<10			(25)
Cobalt	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	<0.5			(3.8)
Copper	0.5 ug/L	<0.5	0.7	0.6	<0.5	<0.5			(87)
Lead	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	<0.2			(10)
Molybdenum	0.5 ug/L	0.9	1.8	5.1	1.0				(70)
Nickel	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0			(100)
Selenium	1.0 ug/L	<1.0	<1.0	2.4	<1.0	<1.0			(10)
Silver	0.2 ug/L	0.3	<0.2	<0.2	<0.2	<0.2			(1.5)
Sodium	200 ug/L	80100	384000	23300	79300				(490,000)
Thallium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	<0.5			(2)

	Client ID:				Criteria:	
	Sample Date:	MW206	MW3D	MW1S		MW9206
	Sample ID:	18-Oct-2021 2143092-01	18-Oct-2021 2143092-02	18-Oct-2021 2143092-03		18-Oct-2021 2143092-04
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	
	MDL/Units					
Uranium	0.2 ug/L	1.3	1.1	5.5	1.7	
Vanadium	0.5 ug/L	0.5	<0.5	1.3	0.5	
Zinc	5.0 ug/L	<5.0	<5.0	5.1	<5.0	
Volatiles						
Acetone	5.0 ug/L	-	<5.0	<5.0	-	
Benzene	0.5 ug/L	-	<0.5	<0.5	-	
Bromodichloromethane	0.5 ug/L	-	<0.5	<0.5	-	
Bromoform	0.5 ug/L	-	<0.5	<0.5	-	
Bromomethane	0.5 ug/L	-	<0.5	<0.5	-	
Carbon Tetrachloride	0.2 ug/L	-	<0.2	<0.2	-	
Chlorobenzene	0.5 ug/L	-	<0.5	<0.5	-	
Chloroform	0.5 ug/L	-	<0.5	<0.5	-	
Dibromochloromethane	0.5 ug/L	-	<0.5	<0.5	-	
Dichlorodifluoromethane	1.0 ug/L	-	<1.0	<1.0	-	
1,2-Dichlorobenzene	0.5 ug/L	-	<0.5	<0.5	-	
1,3-Dichlorobenzene	0.5 ug/L	-	<0.5	<0.5	-	
1,4-Dichlorobenzene	0.5 ug/L	-	<0.5	<0.5	-	
1,1-Dichloroethane	0.5 ug/L	-	<0.5	<0.5	-	
1,2-Dichloroethane	0.5 ug/L	-	<0.5	<0.5	-	
1,1-Dichloroethylene	0.5 ug/L	-	<0.5	<0.5	-	
cis-1,2-Dichloroethylene	0.5 ug/L	-	<0.5	<0.5	-	
trans-1,2-Dichloroethylene	0.5 ug/L	-	<0.5	<0.5	-	
1,2-Dichloropropane	0.5 ug/L	-	<0.5	<0.5	-	
cis-1,3-Dichloropropylene	0.5 ug/L	-	<0.5	<0.5	-	

	Client ID:				Criteria:
	Sample Date:	Sample ID:	Matrix:	MDL/Units	
	MW206 18-Oct-2021 2143092-01 Ground Water	MW3D 18-Oct-2021 2143092-02 Ground Water	MW1S 18-Oct-2021 2143092-03 Ground Water	MW9206 18-Oct-2021 2143092-04 Ground Water	
trans-1,3-Dichloropropylene	-	<0.5	<0.5	-	
1,3-Dichloropropene, total	-	<0.5	<0.5	-	(0.5) ug/L
Ethylbenzene	-	<0.5	<0.5	-	(2.4) ug/L
Ethylene dibromide (dibromoethane)	-	<0.2	<0.2	-	(0.2) ug/L
Hexane	-	<1.0	<1.0	-	(520) ug/L
Methyl Ethyl Ketone (2-Butanone)	-	<5.0	<5.0	-	(1,800) ug/L
Methyl Isobutyl Ketone	-	<5.0	<5.0	-	(640) ug/L
Methyl tert-butyl ether	-	<2.0	<2.0	-	(15) ug/L
Methylene Chloride	-	<5.0	<5.0	-	(50) ug/L
Styrene	-	<0.5	<0.5	-	(5.4) ug/L
1,1,1,2-Tetrachloroethane	-	<0.5	<0.5	-	(1.1) ug/L
1,1,2,2-Tetrachloroethane	-	<0.5	<0.5	-	(1) ug/L
Tetrachloroethylene	-	<0.5	<0.5	-	(17) ug/L
Toluene	-	<0.5	<0.5	-	(24) ug/L
1,1,1-Trichloroethane	-	<0.5	<0.5	-	(200) ug/L
1,1,2-Trichloroethane	-	<0.5	<0.5	-	(5) ug/L
Trichloroethylene	-	<0.5	<0.5	-	(5) ug/L
Trichlorofluoromethane	-	<1.0	<1.0	-	(150) ug/L
Vinyl chloride	-	<0.5	<0.5	-	(1.7) ug/L
m,p-Xylenes	-	<0.5	<0.5	-	
o-Xylene	-	<0.5	<0.5	-	
Xylenes, total	-	<0.5	<0.5	-	(300) ug/L
4-Bromofluorobenzene	-	106%	107%	-	
Dibromofluoromethane	-	79.1%	77.4%	-	

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 22-Oct-2021
 Order Date: 18-Oct-2021
Project Description: CT2694.03

	Client ID:				Criteria:	
	Sample Date:	MW206	MW3D	MW1S		MW9206
	Sample ID:	18-Oct-2021 2143092-01	18-Oct-2021 2143092-02	18-Oct-2021 2143092-03		18-Oct-2021 2143092-04
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	
	MDL/Units					
Toluene-d8	Surrogate	-	103%	103%	-	
Benzene	0.5 ug/L	<0.5	-	-	(5) ug/L	
Ethylbenzene	0.5 ug/L	<0.5	-	-	(2.4) ug/L	
Toluene	0.5 ug/L	<0.5	-	-	(24) ug/L	
m,p-Xylenes	0.5 ug/L	<0.5	-	-		
o-Xylene	0.5 ug/L	<0.5	-	-		
Xylenes, total	0.5 ug/L	<0.5	-	-	(300) ug/L	
Toluene-d8	Surrogate	104%	-	-		
Hydrocarbons						
F1 PHCs (C6-C10)	25 ug/L	<25	<25	<25	(750) ug/L	
F2 PHCs (C10-C16)	100 ug/L	678	<100	<100	(150) ug/L	
F3 PHCs (C16-C34)	100 ug/L	<100	<100	<100	(500) ug/L	
F4 PHCs (C34-C50)	100 ug/L	<100	<100	<100	(500) ug/L	
Semi-Volatiles						
Acenaphthene	0.05 ug/L	<0.05	-	-	<0.05 (4.1) ug/L	
Acenaphthylene	0.05 ug/L	<0.05	-	-	<0.05 (1) ug/L	
Anthracene	0.01 ug/L	<0.01	-	-	<0.01 (2.4) ug/L	
Benzo [a] anthracene	0.01 ug/L	<0.01	-	-	<0.01 (1) ug/L	
Benzo [a] pyrene	0.01 ug/L	<0.01	-	-	<0.01 (0.01) ug/L	
Benzo [b] fluoranthene	0.05 ug/L	<0.05	-	-	<0.05 (0.1) ug/L	
Benzo [g,h,i] perylene	0.05 ug/L	<0.05	-	-	<0.05 (0.2) ug/L	
Benzo [k] fluoranthene	0.05 ug/L	<0.05	-	-	<0.05 (0.1) ug/L	
Chrysene	0.05 ug/L	<0.05	-	-	<0.05 (0.1) ug/L	
Dibenzo [a,h] anthracene	0.05 ug/L	<0.05	-	-	<0.05 (0.2) ug/L	

	Client ID:				Criteria:
	Sample Date:	Sample ID:	Matrix:	MDL/Units	
	MW206 18-Oct-2021 2143092-01 Ground Water	MW3D 18-Oct-2021 2143092-02 Ground Water	MW1S 18-Oct-2021 2143092-03 Ground Water	MW9206 18-Oct-2021 2143092-04 Ground Water	
Fluoranthene	0.01 ug/L	-	-	<0.01	(0.41) ug/L
Fluorene	0.05 ug/L	-	-	<0.05	(120) ug/L
Indeno [1,2,3-cd] pyrene	0.05 ug/L	-	-	<0.05	(0.2) ug/L
1-Methylnaphthalene	0.05 ug/L	-	-	0.10	(3.2) ug/L
2-Methylnaphthalene	0.05 ug/L	-	-	0.12	(3.2) ug/L
Methylnaphthalene (1&2)	0.10 ug/L	-	-	0.22	(3.2) ug/L
Naphthalene	0.05 ug/L	-	-	0.12	(11) ug/L
Phenanthrene	0.05 ug/L	-	-	<0.05	(1) ug/L
Pyrene	0.01 ug/L	-	-	<0.01	(4.1) ug/L
2-Fluorobiphenyl	Surrogate	-	-	92.9%	
Terphenyl-d14	Surrogate	-	-	107%	
				93.4%	
				112%	

Report Date: 22-Oct-2021
 Order Date: 18-Oct-2021
 Project Description: CT2694.03

 Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

	Client ID:	MW93D				
	Sample Date:	18-Oct-2021				
	Sample ID:	2143092-05				
	Matrix:	Ground Water				
MDL/Units						

Criteria:

Reg 153/04 (2011)-Table 2 Potable Groundwater

Volatiles	MDL/Units						Criteria:
Acetone	5.0 ug/L	<5.0	-	-	-	-	(2,700) ug/L
Benzene	0.5 ug/L	<0.5	-	-	-	-	(5) ug/L
Bromodichloromethane	0.5 ug/L	<0.5	-	-	-	-	(16) ug/L
Bromoform	0.5 ug/L	<0.5	-	-	-	-	(25) ug/L
Bromomethane	0.5 ug/L	<0.5	-	-	-	-	(0.89) ug/L
Carbon Tetrachloride	0.2 ug/L	<0.2	-	-	-	-	(5) ug/L
Chlorobenzene	0.5 ug/L	<0.5	-	-	-	-	(30) ug/L
Chloroform	0.5 ug/L	<0.5	-	-	-	-	(22) ug/L
Dibromochloromethane	0.5 ug/L	<0.5	-	-	-	-	(25) ug/L
Dichlorodifluoromethane	1.0 ug/L	<1.0	-	-	-	-	(590) ug/L
1,2-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	-	(3) ug/L
1,3-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	-	(59) ug/L
1,4-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	-	(1) ug/L
1,1-Dichloroethane	0.5 ug/L	<0.5	-	-	-	-	(5) ug/L
1,2-Dichloroethane	0.5 ug/L	<0.5	-	-	-	-	(5) ug/L
1,1-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	-	(14) ug/L
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	-	(17) ug/L
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	-	(17) ug/L
1,2-Dichloropropane	0.5 ug/L	<0.5	-	-	-	-	(5) ug/L
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-	-	
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-	-	
1,3-Dichloropropene, total	0.5 ug/L	<0.5	-	-	-	-	(0.5) ug/L
Ethylbenzene	0.5 ug/L	<0.5	-	-	-	-	(2.4) ug/L

	Client ID:		MW93D 18-Oct-2021 2143092-05 Ground Water							Criteria: Reg 153/04 (2011)-Table 2 Potable Groundwater
	Sample Date:	Sample ID:								
	Matrix:	MDL/Units								
Ethylene dibromide (dibromoethane)	0.2 ug/L	<0.2	-	-	-	-	-	-	-	(0.2) ug/L
Hexane	1.0 ug/L	<1.0	-	-	-	-	-	-	-	(520) ug/L
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	-	-	-	-	-	-	-	(1,800) ug/L
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	-	-	-	-	-	-	-	(640) ug/L
Methyl tert-butyl ether	2.0 ug/L	<2.0	-	-	-	-	-	-	-	(15) ug/L
Methylene Chloride	5.0 ug/L	<5.0	-	-	-	-	-	-	-	(50) ug/L
Styrene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(5.4) ug/L
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(1.1) ug/L
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(1) ug/L
Tetrachloroethylene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(17) ug/L
Toluene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(24) ug/L
1,1,1-Trichloroethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(200) ug/L
1,1,2-Trichloroethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(5) ug/L
Trichloroethylene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(5) ug/L
Trichlorofluoromethane	1.0 ug/L	<1.0	-	-	-	-	-	-	-	(150) ug/L
Vinyl chloride	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(1.7) ug/L
m,p-Xylenes	0.5 ug/L	<0.5	-	-	-	-	-	-	-	
o-Xylene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	
Xylenes, total	0.5 ug/L	<0.5	-	-	-	-	-	-	-	(300) ug/L
4-Bromofluorobenzene	Surrogate	106%	-	-	-	-	-	-	-	
Dibromofluoromethane	Surrogate	77.9%	-	-	-	-	-	-	-	
Toluene-d8	Surrogate	104%	-	-	-	-	-	-	-	
Hydrocarbons										
F1 PHCs (C6-C10)	25 ug/L	<25	-	-	-	-	-	-	-	(750) ug/L

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Report Date: 22-Oct-2021
 Order Date: 18-Oct-2021
 Project Description: CT2694.03

	Client ID:		Sample Date:	Sample ID:	Matrix:	MDL/Units	-	-	-	-	-	Criteria:
	MW93D	18-Oct-2021										
F2 PHCs (C10-C16)			<100									(150) ug/L
F3 PHCs (C16-C34)			<100									(500) ug/L
F4 PHCs (C34-C50)			<100									(500) ug/L

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Anions							
Chloride	ND	1.0	mg/L				
General Inorganics							
Cyanide, free	ND	2	ug/L				
Hydrocarbons							
F1 PHCs (C6-C10)	ND	25	ug/L				
F2 PHCs (C10-C16)	ND	100	ug/L				
F3 PHCs (C16-C34)	ND	100	ug/L				
F4 PHCs (C34-C50)	ND	100	ug/L				
Metals							
Mercury	ND	0.1	ug/L				
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 (VI)	ND	10	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				
Sodium	ND	200	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				
Semi-Volatiles							
Acenaphthene	ND	0.05	ug/L				
Acenaphthylene	ND	0.05	ug/L				
Anthracene	ND	0.01	ug/L				
Benzo [a] anthracene	ND	0.01	ug/L				
Benzo [a] pyrene	ND	0.01	ug/L				
Benzo [b] fluoranthene	ND	0.05	ug/L				
Benzo [g,h,i] perylene	ND	0.05	ug/L				
Benzo [k] fluoranthene	ND	0.05	ug/L				

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Chrysene	ND	0.05	ug/L				
Dibenzo [a,h] anthracene	ND	0.05	ug/L				
Fluoranthene	ND	0.01	ug/L				
Fluorene	ND	0.05	ug/L				
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L				
1-Methylnaphthalene	ND	0.05	ug/L				
2-Methylnaphthalene	ND	0.05	ug/L				
Methylnaphthalene (1&2)	ND	0.10	ug/L				
Naphthalene	ND	0.05	ug/L				
Phenanthrene	ND	0.05	ug/L				
Pyrene	ND	0.01	ug/L				
Surrogate: 2-Fluorobiphenyl	3.01		ug/L	75.6	50-140		
Surrogate: Terphenyl-d14	4.34		ug/L	109	50-140		
Volatiles							
Acetone	ND	5.0	ug/L				
Benzene	ND	0.5	ug/L				
Bromodichloromethane	ND	0.5	ug/L				
Bromoform	ND	0.5	ug/L				
Bromomethane	ND	0.5	ug/L				
Carbon Tetrachloride	ND	0.2	ug/L				
Chlorobenzene	ND	0.5	ug/L				
Chloroform	ND	0.5	ug/L				
Dibromochloromethane	ND	0.5	ug/L				
Dichlorodifluoromethane	ND	1.0	ug/L				
1,2-Dichlorobenzene	ND	0.5	ug/L				
1,3-Dichlorobenzene	ND	0.5	ug/L				
1,4-Dichlorobenzene	ND	0.5	ug/L				
1,1-Dichloroethane	ND	0.5	ug/L				
1,2-Dichloroethane	ND	0.5	ug/L				
1,1-Dichloroethylene	ND	0.5	ug/L				
cis-1,2-Dichloroethylene	ND	0.5	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				
Ethylbenzene	ND	0.5	ug/L				
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L				
Hexane	ND	1.0	ug/L				
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L				
Methyl Isobutyl Ketone	ND	5.0	ug/L				
Methyl tert-butyl ether	ND	2.0	ug/L				

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Methylene Chloride	ND	5.0	ug/L				
Styrene	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				
Toluene	ND	0.5	ug/L				
1,1,1-Trichloroethane	ND	0.5	ug/L				
1,1,2-Trichloroethane	ND	0.5	ug/L				
Trichloroethylene	ND	0.5	ug/L				
Trichlorofluoromethane	ND	1.0	ug/L				
Vinyl chloride	ND	0.5	ug/L				
m,p-Xylenes	ND	0.5	ug/L				
o-Xylene	ND	0.5	ug/L				
Xylenes, total	ND	0.5	ug/L				
Surrogate: 4-Bromofluorobenzene	83.8		ug/L	105	50-140		
Surrogate: Dibromofluoromethane	64.2		ug/L	80.3	50-140		
Surrogate: Toluene-d8	82.0		ug/L	103	50-140		
Benzene	ND	0.5	ug/L				
Ethylbenzene	ND	0.5	ug/L				
Toluene	ND	0.5	ug/L				
m,p-Xylenes	ND	0.5	ug/L				
o-Xylene	ND	0.5	ug/L				
Xylenes, total	ND	0.5	ug/L				
Surrogate: Toluene-d8	82.0		ug/L	103	50-140		

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD	RPD Limit	Notes
Anions								
Chloride	147	1.0	mg/L	148		0.9	10	
General Inorganics								
Cyanide, free	ND	2	ug/L	ND		NC	20	
pH	7.4	0.1	pH Units	7.5		0.3	10	
Hydrocarbons								
F1 PHCs (C6-C10)	ND	25	ug/L	ND		NC	30	
Metals								
Mercury	ND	0.1	ug/L	ND		NC	20	
Antimony	ND	0.5	ug/L	ND		NC	20	
Arsenic	ND	1.0	ug/L	ND		NC	20	
Barium	67.6	1.0	ug/L	67.9		0.4	20	
Beryllium	ND	0.5	ug/L	ND		NC	20	
Boron	15.5	10.0	ug/L	13.6		13.0	20	
Cadmium	ND	0.2	ug/L	ND		NC	20	
Chromium (VI)	ND	10	ug/L	ND		NC	20	
Chromium	ND	1.0	ug/L	ND		NC	20	
Cobalt	ND	0.5	ug/L	ND		NC	20	
Copper	0.5	0.5	ug/L	ND		NC	20	
Lead	ND	0.2	ug/L	ND		NC	20	
Molybdenum	1.2	0.5	ug/L	0.9		NC	20	
Nickel	ND	1.0	ug/L	ND		NC	20	
Selenium	ND	1.0	ug/L	ND		NC	20	
Silver	0.2	0.2	ug/L	0.3		NC	20	
Sodium	83100	200	ug/L	80100		3.6	20	
Thallium	ND	0.5	ug/L	ND		NC	20	
Uranium	0.9	0.2	ug/L	1.3		NC	20	
Vanadium	0.6	0.5	ug/L	0.5		9.1	20	
Zinc	ND	5.0	ug/L	ND		NC	20	
Volatiles								
Acetone	ND	5.0	ug/L	ND		NC	30	
Benzene	ND	0.5	ug/L	ND		NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND		NC	30	
Bromoform	ND	0.5	ug/L	ND		NC	30	
Bromomethane	ND	0.5	ug/L	ND		NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND		NC	30	
Chlorobenzene	ND	0.5	ug/L	ND		NC	30	
Chloroform	ND	0.5	ug/L	ND		NC	30	
Dibromochloromethane	ND	0.5	ug/L	ND		NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	86.0		ug/L		107	50-140			
Surrogate: Dibromofluoromethane	56.5		ug/L		70.6	50-140			
Surrogate: Toluene-d8	82.8		ug/L		104	50-140			
Benzene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: Toluene-d8	82.8		ug/L		104	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Anions								
Chloride	159	1.0	mg/L	148	106	77-123		
General Inorganics								
Cyanide, free	106	2	ug/L	ND	106	70-130		
Hydrocarbons								
F1 PHCs (C6-C10)	736	25	ug/L	ND	104	68-117		
F2 PHCs (C10-C16)	1570	100	ug/L	ND	95.2	60-140		
F3 PHCs (C16-C34)	4420	100	ug/L	ND	119	60-140		
F4 PHCs (C34-C50)	3170	100	ug/L	ND	119	60-140		
Metals								
Mercury	3.16	0.1	ug/L	ND	105	70-130		
Antimony	47.6	0.5	ug/L	ND	95.3	70-130		
Arsenic	53.9	1.0	ug/L	ND	108	70-130		
Barium	113	1.0	ug/L	67.9	91.1	70-130		
Beryllium	50.2	0.5	ug/L	ND	100	70-130		
Boron	60.8	10.0	ug/L	13.6	94.3	70-130		
Cadmium	45.7	0.2	ug/L	ND	91.4	70-130		
Chromium (VI)	209	10	ug/L	ND	104	70-130		
Chromium	46.3	1.0	ug/L	ND	92.6	70-130		
Cobalt	44.6	0.5	ug/L	ND	89.1	70-130		
Copper	45.3	0.5	ug/L	ND	90.6	70-130		
Lead	43.2	0.2	ug/L	ND	86.4	70-130		
Molybdenum	48.5	0.5	ug/L	0.9	95.2	70-130		
Nickel	45.4	1.0	ug/L	ND	90.7	70-130		
Selenium	56.6	1.0	ug/L	ND	113	70-130		
Silver	41.1	0.2	ug/L	0.3	81.7	70-130		
Sodium	77400	200	ug/L	80100	-270	70-130		QM-4X
Thallium	43.4	0.5	ug/L	ND	86.8	70-130		
Uranium	46.0	0.2	ug/L	1.3	89.4	70-130		
Vanadium	48.0	0.5	ug/L	0.5	94.9	70-130		
Zinc	46.6	5.0	ug/L	ND	93.1	70-130		
Semi-Volatiles								
Acenaphthene	2.11	0.05	ug/L	ND	106	50-140		
Acenaphthylene	2.00	0.05	ug/L	ND	99.9	50-140		

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anthracene	1.94	0.01	ug/L	ND	97.1	50-140			
Benzo [a] anthracene	2.03	0.01	ug/L	ND	102	50-140			
Benzo [a] pyrene	2.55	0.01	ug/L	ND	128	50-140			
Benzo [b] fluoranthene	2.58	0.05	ug/L	ND	129	50-140			
Benzo [g,h,i] perylene	2.70	0.05	ug/L	ND	135	50-140			
Benzo [k] fluoranthene	2.52	0.05	ug/L	ND	126	50-140			
Chrysene	2.47	0.05	ug/L	ND	124	50-140			
Dibenzo [a,h] anthracene	2.48	0.05	ug/L	ND	124	50-140			
Fluoranthene	2.40	0.01	ug/L	ND	120	50-140			
Fluorene	2.26	0.05	ug/L	ND	113	50-140			
Indeno [1,2,3-cd] pyrene	2.50	0.05	ug/L	ND	125	50-140			
1-Methylnaphthalene	2.17	0.05	ug/L	ND	108	50-140			
2-Methylnaphthalene	2.11	0.05	ug/L	ND	105	50-140			
Naphthalene	2.17	0.05	ug/L	ND	109	50-140			
Phenanthrene	2.34	0.05	ug/L	ND	117	50-140			
Pyrene	2.29	0.01	ug/L	ND	115	50-140			
Surrogate: 2-Fluorobiphenyl	3.69		ug/L		92.6	50-140			
Surrogate: Terphenyl-d14	4.44		ug/L		111	50-140			
Volatiles									
Acetone	75.5	5.0	ug/L	ND	77.3	50-140			
Benzene	34.7	0.5	ug/L	ND	86.3	50-140			
Bromodichloromethane	31.5	0.5	ug/L	ND	78.4	50-140			
Bromoform	29.6	0.5	ug/L	ND	73.7	50-140			
Bromomethane	39.9	0.5	ug/L	ND	99.8	50-140			
Carbon Tetrachloride	32.0	0.2	ug/L	ND	79.9	50-140			
Chlorobenzene	34.1	0.5	ug/L	ND	84.8	50-140			
Chloroform	36.0	0.5	ug/L	ND	89.6	50-140			
Dibromochloromethane	30.0	0.5	ug/L	ND	75.0	50-140			
Dichlorodifluoromethane	34.8	1.0	ug/L	ND	87.0	50-140			
1,2-Dichlorobenzene	33.7	0.5	ug/L	ND	84.2	50-140			
1,3-Dichlorobenzene	34.1	0.5	ug/L	ND	85.3	50-140			
1,4-Dichlorobenzene	34.0	0.5	ug/L	ND	84.5	50-140			
1,1-Dichloroethane	37.0	0.5	ug/L	ND	92.6	50-140			
1,2-Dichloroethane	30.4	0.5	ug/L	ND	75.7	50-140			
1,1-Dichloroethylene	35.8	0.5	ug/L	ND	89.4	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
cis-1,2-Dichloroethylene	34.0	0.5	ug/L	ND	84.6	50-140		
trans-1,2-Dichloroethylene	33.1	0.5	ug/L	ND	82.4	50-140		
1,2-Dichloropropane	33.3	0.5	ug/L	ND	83.2	50-140		
cis-1,3-Dichloropropylene	33.2	0.5	ug/L	ND	83.0	50-140		
trans-1,3-Dichloropropylene	33.5	0.5	ug/L	ND	83.3	50-140		
Ethylbenzene	34.8	0.5	ug/L	ND	86.5	50-140		
Ethylene dibromide (dibromoethane, 1,2-)	31.1	0.2	ug/L	ND	77.4	50-140		
Hexane	36.5	1.0	ug/L	ND	91.3	50-140		
Methyl Ethyl Ketone (2-Butanone)	64.3	5.0	ug/L	ND	62.8	50-140		
Methyl Isobutyl Ketone	77.0	5.0	ug/L	ND	78.9	50-140		
Methyl tert-butyl ether	68.9	2.0	ug/L	ND	68.9	50-140		
Methylene Chloride	29.2	5.0	ug/L	ND	72.6	50-140		
Styrene	35.7	0.5	ug/L	ND	88.3	50-140		
1,1,1,2-Tetrachloroethane	32.5	0.5	ug/L	ND	81.2	50-140		
1,1,2,2-Tetrachloroethane	31.0	0.5	ug/L	ND	77.1	50-140		
Tetrachloroethylene	32.6	0.5	ug/L	ND	81.1	50-140		
Toluene	34.5	0.5	ug/L	ND	86.2	50-140		
1,1,1-Trichloroethane	32.6	0.5	ug/L	ND	81.4	50-140		
1,1,2-Trichloroethane	31.3	0.5	ug/L	ND	77.9	50-140		
Trichloroethylene	33.1	0.5	ug/L	ND	82.3	50-140		
Trichlorofluoromethane	37.8	1.0	ug/L	ND	94.5	50-140		
Vinyl chloride	35.3	0.5	ug/L	ND	88.2	50-140		
m,p-Xylenes	69.5	0.5	ug/L	ND	86.7	50-140		
o-Xylene	34.6	0.5	ug/L	ND	86.1	50-140		
Surrogate: 4-Bromofluorobenzene	82.0		ug/L		102	50-140		
Surrogate: Dibromofluoromethane	104		ug/L		130	50-140		
Surrogate: Toluene-d8	80.2		ug/L		100	50-140		
Benzene	34.7	0.5	ug/L	ND	86.3	50-140		
Ethylbenzene	34.8	0.5	ug/L	ND	86.5	50-140		
Toluene	34.5	0.5	ug/L	ND	86.2	50-140		
m,p-Xylenes	69.5	0.5	ug/L	ND	86.7	50-140		
o-Xylene	34.6	0.5	ug/L	ND	86.1	50-140		
Surrogate: Toluene-d8	80.2		ug/L		100	50-140		

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 22-Oct-2021

Order Date: 18-Oct-2021

Project Description: CT2694.03

Qualifier Notes:

QC Qualifiers :

QM-4X : The spike recovery was outside of QC acceptance limits due to elevated analyte concentration.

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

m/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
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.

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.

Parcel ID: 2143092



Parcel Order Number (Lab Use Only)
2143092

Chain Of Custody (Lab Use Only)
No 133211

Project Ref: CI2694.03
Quote #: 510
PO #:
Email: s.sutherland@terrapex.com
Turnaround Time:
 1 day
 2 day
 Regular
Date Required:

Page 1 of 1

Client Name: Terrapex Environmental
Contact Name: Sara Sutherland
Address: 40 Scarsdale Rd, Toronto
M1B 2R7
Telephone: 416 529 9715

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

Required Analysis

Sample ID/Location Name	Matrix	# of Containers	Sample Taken		Metals by ICP	PAHs	VOCs	PHCs F1-F4+BTEX	GM	E (HWS)	Metals & Inorganics	VOCs/F1
			Date	Time								
MW206	GW	8	18/12	12:15pm	X	X	X	X	X	X	X	X
MW3D	GW	8	18/12	1:15pm	X	X	X	X	X	X	X	X
MW15	GW	8	18/12	2:00pm	X	X	X	X	X	X	X	X
MW9206	GW	6	18/12	12:15pm	X	X	X	X	X	X	X	X
MW93D	GW	3	18/12	1:15pm	X	X	X	X	X	X	X	X
field blank	GW	1										

Other Regulation

- REG 15204
- REG 46819
- REG 558
- Table 1 Gas/Pack
- Table 2 Int/Comm
- Table 3 Agr/Direct
- Table 4
- P/QOO
- M/GA
- CCME
- 3U - San
- 5U - Storm

For RSC: Yes No

Method of Delivery: Wax Lu

Verified By: BB

Date/Time: 19/10/21 12:20

Temperature: 5.9 °C

Received at Lab: No

Received by Driver/Client: SC

Date/Time: 10/11/2021 15:20

Temperature: 12.6 °C

Signature: Mira Wang

Date/Time: Oct 12 2021 / 3:18

Signature: Mira Wang

Signature: Mira Wang

Signature: Mira Wang

Signature: Mira Wang

Signature: Mira Wang

Signature: Mira Wang



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 133210

Report Date: 26-Nov-2021
Order Date: 29-Oct-2021

Revised Report
Order #: 2144619

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

Paracel ID	Client ID
2144619-01	MW206
2144619-02	MW9206
2144619-03	MW203
2144619-04	MW10
2144619-05	Trip Blank
2144619-06	Trip Spike

Alex Enfield, MSc
Lab Manager

Approved By:

Report Date: 26-Nov-2021
 Order Date: 29-Oct-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 624 - P&T GC-MS	2-Nov-21	2-Nov-21
PHC F1	CWS Tier 1 - P&T GC-FID	1-Nov-21	2-Nov-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	3-Nov-21	4-Nov-21
REG 153: PAHs by GC-MS	EPA 625 - GC-MS, extraction	2-Nov-21	3-Nov-21
REG 153: VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	1-Nov-21	1-Nov-21

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 26-Nov-2021
 Order Date: 29-Oct-2021
Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Potable Groundwater
-----------	---------	-------------	--------	---

Volatiles	Client ID:				MDL/Units	Criteria:	
	Sample Date:	MW206	MW9206	MW203			MW10
	Sample ID:	27-Oct-2021 2144619-01	27-Oct-2021 2144619-02	27-Oct-2021 2144619-03			27-Oct-2021 2144619-04
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Reg 153/04 (2011)-Table 2 Potable Groundwater	
Acetone	5.0 ug/L	-	-	<5.0	-	(2,700) ug/L	
Benzene	0.5 ug/L	-	-	<0.5	-	(5) ug/L	
Bromodichloromethane	0.5 ug/L	-	-	<0.5	-	(16) ug/L	
Bromoform	0.5 ug/L	-	-	<0.5	-	(25) ug/L	
Bromomethane	0.5 ug/L	-	-	<0.5	-	(0.89) ug/L	
Carbon Tetrachloride	0.2 ug/L	-	-	<0.2	-	(5) ug/L	
Chlorobenzene	0.5 ug/L	-	-	<0.5	-	(30) ug/L	
Chloroform	0.5 ug/L	-	-	<0.5	-	(22) ug/L	
Dibromochloromethane	0.5 ug/L	-	-	<0.5	-	(25) ug/L	
Dichlorodifluoromethane	1.0 ug/L	-	-	<1.0	-	(590) ug/L	
1,2-Dichlorobenzene	0.5 ug/L	-	-	<0.5	-	(3) ug/L	
1,3-Dichlorobenzene	0.5 ug/L	-	-	<0.5	-	(59) ug/L	
1,4-Dichlorobenzene	0.5 ug/L	-	-	<0.5	-	(1) ug/L	
1,1-Dichloroethane	0.5 ug/L	-	-	<0.5	-	(5) ug/L	
1,2-Dichloroethane	0.5 ug/L	-	-	<0.5	-	(5) ug/L	
1,1-Dichloroethylene	0.5 ug/L	-	-	<0.5	-	(14) ug/L	
cis-1,2-Dichloroethylene	0.5 ug/L	-	-	<0.5	-	(17) ug/L	
trans-1,2-Dichloroethylene	0.5 ug/L	-	-	<0.5	-	(17) ug/L	
1,2-Dichloropropane	0.5 ug/L	-	-	<0.5	-	(5) ug/L	
cis-1,3-Dichloropropylene	0.5 ug/L	-	-	<0.5	-		
trans-1,3-Dichloropropylene	0.5 ug/L	-	-	<0.5	-		
1,3-Dichloropropene, total	0.5 ug/L	-	-	<0.5	-	(0.5) ug/L	

	Client ID:				Matrix:	MDL/Units	Criteria:
	Sample Date:	Sample ID:	Sample ID:	Sample ID:			
	MW206 27-Oct-2021 2144619-01 Ground Water	MW9206 27-Oct-2021 2144619-02 Ground Water	MW203 27-Oct-2021 2144619-03 Ground Water	MW10 27-Oct-2021 2144619-04 Ground Water			
Ethylbenzene	-	-	<0.5	-	0.5 ug/L	(2.4)	ug/L
Ethylene dibromide (dibromoethane)	-	-	<0.2	-	0.2 ug/L	(0.2)	ug/L
Hexane	-	-	<1.0	-	1.0 ug/L	(520)	ug/L
Methyl Ethyl Ketone (2-Butanone)	-	-	<5.0	-	5.0 ug/L	(1,800)	ug/L
Methyl Isobutyl Ketone	-	-	<5.0	-	5.0 ug/L	(640)	ug/L
Methyl tert-butyl ether	-	-	<2.0	-	2.0 ug/L	(15)	ug/L
Methylene Chloride	-	-	<5.0	-	5.0 ug/L	(50)	ug/L
Styrene	-	-	<0.5	-	0.5 ug/L	(5.4)	ug/L
1,1,1,2-Tetrachloroethane	-	-	<0.5	-	0.5 ug/L	(1.1)	ug/L
1,1,2,2-Tetrachloroethane	-	-	<0.5	-	0.5 ug/L	(1)	ug/L
Tetrachloroethylene	-	-	<0.5	-	0.5 ug/L	(17)	ug/L
Toluene	-	-	<0.5	-	0.5 ug/L	(24)	ug/L
1,1,1-Trichloroethane	-	-	<0.5	-	0.5 ug/L	(200)	ug/L
1,1,2-Trichloroethane	-	-	<0.5	-	0.5 ug/L	(5)	ug/L
Trichloroethylene	-	-	<0.5	-	0.5 ug/L	(5)	ug/L
Trichlorofluoromethane	-	-	<1.0	-	1.0 ug/L	(150)	ug/L
Vinyl chloride	-	-	<0.5	-	0.5 ug/L	(1.7)	ug/L
m,p-Xylenes	-	-	<0.5	-	0.5 ug/L		
o-Xylene	-	-	<0.5	-	0.5 ug/L		
Xylenes, total	-	-	<0.5	-	0.5 ug/L	(300)	ug/L
4-Bromofluorobenzene	-	-	104%	-	Surrogate		
Dibromofluoromethane	-	-	78.8%	-	Surrogate		
Toluene-d8	-	-	102%	-	Surrogate		

	Client ID:				Criteria:	
	Sample Date:	MW206	MW9206	MW203		MW10
	Sample ID:	27-Oct-2021 2144619-01	27-Oct-2021 2144619-02	27-Oct-2021 2144619-03		27-Oct-2021 2144619-04
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	
	MDL/Units					
Benzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5 (5)	
Ethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5 (2.4)	
Toluene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5 (24)	
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	<0.5		
o-Xylene	0.5 ug/L	<0.5	<0.5	<0.5		
Xylenes, total	0.5 ug/L	<0.5	<0.5	<0.5	<0.5 (300)	
Toluene-d8	Surrogate	102%	102%	102%	101%	
Hydrocarbons						
F1 PHCs (C6-C10)	25 ug/L	<25	<25	<25	<25 (750)	
F2 PHCs (C10-C16)	100 ug/L	<100	<100	<100	<100 (150)	
F3 PHCs (C16-C34)	100 ug/L	<100	<100	<100	<100 (500)	
F4 PHCs (C34-C50)	100 ug/L	<100	<100	<100	<100 (500)	
Semi-Volatiles						
Acenaphthene	0.05 ug/L	-	-	-	<0.05 (4.1)	
Acenaphthylene	0.05 ug/L	-	-	-	<0.05 (1)	
Anthracene	0.01 ug/L	-	-	-	<0.01 (2.4)	
Benzo [a] anthracene	0.01 ug/L	-	-	-	<0.01 (1)	
Benzo [a] pyrene	0.01 ug/L	-	-	-	<0.01 (0.01)	
Benzo [b] fluoranthene	0.05 ug/L	-	-	-	<0.05 (0.1)	
Benzo [g,h,i] perylene	0.05 ug/L	-	-	-	<0.05 (0.2)	
Benzo [k] fluoranthene	0.05 ug/L	-	-	-	<0.05 (0.1)	
Chrysene	0.05 ug/L	-	-	-	<0.05 (0.1)	
Dibenzo [a,h] anthracene	0.05 ug/L	-	-	-	<0.05 (0.2)	

	Client ID:				Criteria:
	MW206	MW9206	MW203	MW10	
Sample Date:	27-Oct-2021	27-Oct-2021	27-Oct-2021	27-Oct-2021	Reg 153/04 (2011)-Table 2 Potable Groundwater
Sample ID:	2144619-01	2144619-02	2144619-03	2144619-04	
Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	
MDL/Units	0.01 ug/L	-	-	<0.01	ug/L
Fluoranthene	0.05 ug/L	-	-	<0.05	ug/L
Fluorene	0.05 ug/L	-	-	<0.05	ug/L
Indeno [1,2,3-cd] pyrene	0.05 ug/L	-	-	<0.05	ug/L
1-Methylnaphthalene	0.05 ug/L	-	-	<0.05	ug/L
2-Methylnaphthalene	0.10 ug/L	-	-	<0.10	ug/L
Methylnaphthalene (1&2)	0.05 ug/L	-	-	<0.05	ug/L
Naphthalene	0.05 ug/L	-	-	<0.05	ug/L
Phenanthrene	0.01 ug/L	-	-	<0.01	ug/L
Pyrene	Surrogate	-	-	101%	ug/L
2-Fluorobiphenyl	Surrogate	-	-	113%	ug/L
Terphenyl-d14	-	-	-	-	-

	Client ID:		Trip Spike	-	-	Criteria:
	Sample Date:	Sample Date:				
	MDL/Units	Matrix:	Water	Water	Water	Reg 153/04 (2011)-Table 2 Potable Groundwater
Volatiles						
Acetone	5.0 ug/L	<5.0	111 [1]	-	-	(2,700) ug/L
Benzene	0.5 ug/L	<0.5	43.3 [1]	-	-	(5) ug/L
Bromodichloromethane	0.5 ug/L	<0.5	41.2 [1]	-	-	(16) ug/L
Bromoform	0.5 ug/L	<0.5	34.4 [1]	-	-	(25) ug/L
Bromomethane	0.5 ug/L	<0.5	46.6 [1]	-	-	(0.89) ug/L
Carbon Tetrachloride	0.2 ug/L	<0.2	38.4 [1]	-	-	(5) ug/L
Chlorobenzene	0.5 ug/L	<0.5	39.8 [1]	-	-	(30) ug/L
Chloroform	0.5 ug/L	<0.5	44.6 [1]	-	-	(22) ug/L
Dibromochloromethane	0.5 ug/L	<0.5	36.6 [1]	-	-	(25) ug/L
Dichlorodifluoromethane	1.0 ug/L	<1.0	50.2 [1]	-	-	(590) ug/L
1,2-Dichlorobenzene	0.5 ug/L	<0.5	43.5 [1]	-	-	(3) ug/L
1,3-Dichlorobenzene	0.5 ug/L	<0.5	43.5 [1]	-	-	(59) ug/L
1,4-Dichlorobenzene	0.5 ug/L	<0.5	42.2 [1]	-	-	(1) ug/L
1,1-Dichloroethane	0.5 ug/L	<0.5	45.2 [1]	-	-	(5) ug/L
1,2-Dichloroethane	0.5 ug/L	<0.5	41.8 [1]	-	-	(5) ug/L
1,1-Dichloroethylene	0.5 ug/L	<0.5	42.5 [1]	-	-	(14) ug/L
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	42.4 [1]	-	-	(17) ug/L
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	42.2 [1]	-	-	(17) ug/L
1,2-Dichloropropane	0.5 ug/L	<0.5	44.0 [1]	-	-	(5) ug/L
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	37.3 [1]	-	-	
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	36.4 [1]	-	-	
1,3-Dichloropropene, total	0.5 ug/L	<0.5	73.7 [1]	-	-	(0.5) ug/L

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 26-Nov-2021
Order Date: 29-Oct-2021
Project Description: CT2694.03

	Client ID:		Trip Spike	-	-	Criteria:
	Sample ID:	Sample Date:				
	MDL/Units	19-Oct-2021 2144619-05 Water	18-Oct-2021 2144619-06 Water	-	-	Reg 153/04 (2011)-Table 2 Potable Groundwater
Ethylbenzene	0.5 ug/L	<0.5	40.4 [1]	-	-	(2.4) ug/L
Ethylene dibromide (dibromoethane)	0.2 ug/L	<0.2	39.6 [1]	-	-	(0.2) ug/L
Hexane	1.0 ug/L	<1.0	27.7 [1]	-	-	(520) ug/L
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	108 [1]	-	-	(1,800) ug/L
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	103 [1]	-	-	(640) ug/L
Methyl tert-butyl ether	2.0 ug/L	<2.0	101 [1]	-	-	(15) ug/L
Methylene Chloride	5.0 ug/L	<5.0	40.6 [1]	-	-	(50) ug/L
Styrene	0.5 ug/L	<0.5	41.0 [1]	-	-	(5.4) ug/L
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	38.6 [1]	-	-	(1.1) ug/L
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	40.1 [1]	-	-	(1) ug/L
Tetrachloroethylene	0.5 ug/L	<0.5	34.1 [1]	-	-	(17) ug/L
Toluene	0.5 ug/L	<0.5	42.5 [1]	-	-	(24) ug/L
1,1,1-Trichloroethane	0.5 ug/L	<0.5	40.5 [1]	-	-	(200) ug/L
1,1,2-Trichloroethane	0.5 ug/L	<0.5	40.8 [1]	-	-	(5) ug/L
Trichloroethylene	0.5 ug/L	<0.5	40.0 [1]	-	-	(5) ug/L
Trichlorofluoromethane	1.0 ug/L	<1.0	44.0 [1]	-	-	(150) ug/L
Vinyl chloride	0.5 ug/L	<0.5	43.5 [1]	-	-	(1.7) ug/L
m,p-Xylenes	0.5 ug/L	<0.5	79.2 [1]	-	-	
o-Xylene	0.5 ug/L	<0.5	39.8 [1]	-	-	
Xylenes, total	0.5 ug/L	<0.5	119 [1]	-	-	(300) ug/L
4-Bromofluorobenzene	Surrogate	105%	104% [1]	-	-	
Dibromofluoromethane	Surrogate	79.5%	152% [1][4]	-	-	
Toluene-d8	Surrogate	103%	106% [1]	-	-	

Hydrocarbons

F1 PHCs (C6-C10)	MDL/Units 25 ug/L	Client ID: Sample Date: Sample ID: Matrix:	Trip Blank 19-Oct-2021 2144619-05 Water	Trip Spike 18-Oct-2021 2144619-06 Water	-	-	-	-	Criteria:
									Reg 153/04 (2011)-Table 2 Potable Groundwater (750) ug/L
			<25	38 [1]	-	-	-	-	

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	25	ug/L					
F2 PHCs (C10-C16)	ND	100	ug/L					
F3 PHCs (C16-C34)	ND	100	ug/L					
F4 PHCs (C34-C50)	ND	100	ug/L					
Semi-Volatiles								
Acenaphthene	ND	0.05	ug/L					
Acenaphthylene	ND	0.05	ug/L					
Anthracene	ND	0.01	ug/L					
Benzo [a] anthracene	ND	0.01	ug/L					
Benzo [a] pyrene	ND	0.01	ug/L					
Benzo [b] fluoranthene	ND	0.05	ug/L					
Benzo [g,h,i] perylene	ND	0.05	ug/L					
Benzo [k] fluoranthene	ND	0.05	ug/L					
Chrysene	ND	0.05	ug/L					
Dibenzo [a,h] anthracene	ND	0.05	ug/L					
Fluoranthene	ND	0.01	ug/L					
Fluorene	ND	0.05	ug/L					
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L					
1-Methylnaphthalene	ND	0.05	ug/L					
2-Methylnaphthalene	ND	0.05	ug/L					
Methylnaphthalene (1&2)	ND	0.10	ug/L					
Naphthalene	ND	0.05	ug/L					
Phenanthrene	ND	0.05	ug/L					
Pyrene	ND	0.01	ug/L					
Surrogate: 2-Fluorobiphenyl	10.4		ug/L		104		50-140	
Surrogate: Terphenyl-d14	11.0		ug/L		110		50-140	
Volatiles								
Acetone	ND	5.0	ug/L					
Benzene	ND	0.5	ug/L					
Bromodichloromethane	ND	0.5	ug/L					
Bromoform	ND	0.5	ug/L					
Bromomethane	ND	0.5	ug/L					
Carbon Tetrachloride	ND	0.2	ug/L					
Chlorobenzene	ND	0.5	ug/L					
Chloroform	ND	0.5	ug/L					
Dibromochloromethane	ND	0.5	ug/L					
Dichlorodifluoromethane	ND	1.0	ug/L					
1,2-Dichlorobenzene	ND	0.5	ug/L					
1,3-Dichlorobenzene	ND	0.5	ug/L					

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
1,4-Dichlorobenzene	ND	0.5	ug/L					
1,1-Dichloroethane	ND	0.5	ug/L					
1,2-Dichloroethane	ND	0.5	ug/L					
1,1-Dichloroethylene	ND	0.5	ug/L					
cis-1,2-Dichloroethylene	ND	0.5	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					
Ethylbenzene	ND	0.5	ug/L					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L					
Hexane	ND	1.0	ug/L					
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L					
Methyl Isobutyl Ketone	ND	5.0	ug/L					
Methyl tert-butyl ether	ND	2.0	ug/L					
Methylene Chloride	ND	5.0	ug/L					
Styrene	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					
Toluene	ND	0.5	ug/L					
1,1,1-Trichloroethane	ND	0.5	ug/L					
1,1,2-Trichloroethane	ND	0.5	ug/L					
Trichloroethylene	ND	0.5	ug/L					
Trichlorofluoromethane	ND	1.0	ug/L					
Vinyl chloride	ND	0.5	ug/L					
m,p-Xylenes	ND	0.5	ug/L					
o-Xylene	ND	0.5	ug/L					
Xylenes, total	ND	0.5	ug/L					
Surrogate: 4-Bromofluorobenzene	76.4		ug/L		95.5		50-140	
Surrogate: Dibromofluoromethane	53.0		ug/L		66.3		50-140	
Surrogate: Toluene-d8	84.3		ug/L		105		50-140	
Benzene	ND	0.5	ug/L					
Ethylbenzene	ND	0.5	ug/L					
Toluene	ND	0.5	ug/L					
m,p-Xylenes	ND	0.5	ug/L					
o-Xylene	ND	0.5	ug/L					
Xylenes, total	ND	0.5	ug/L					
Surrogate: Toluene-d8	81.6		ug/L		102		50-140	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F-1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND			NC	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	
Bromomethane	ND	0.5	ug/L	ND			NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	ND	0.5	ug/L	ND			NC	30	
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	80.2		ug/L		100	50-140			
Surrogate: Dibromofluoromethane	74.1		ug/L		92.6	50-140			
Surrogate: Toluene-d8	83.0		ug/L		104	50-140			
Benzene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: Toluene-d8	81.7		ug/L		102	50-140			

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	777	25	ug/L	ND	110	68-117		
F2 PHCs (C10-C16)	1370	100	ug/L	ND	83.2	60-140		
F3 PHCs (C16-C34)	4010	100	ug/L	ND	108	60-140		
F4 PHCs (C34-C50)	3010	100	ug/L	ND	112	60-140		
Semi-Volatiles								
Acenaphthene	9.18	0.05	ug/L	ND	91.8	50-140		
Acenaphthylene	9.83	0.05	ug/L	ND	98.3	50-140		
Anthracene	10.1	0.01	ug/L	ND	101	50-140		
Benzo [a] anthracene	10.3	0.01	ug/L	ND	103	50-140		
Benzo [a] pyrene	11.9	0.01	ug/L	ND	119	50-140		
Benzo [b] fluoranthene	11.0	0.05	ug/L	ND	110	50-140		
Benzo [g,h,i] perylene	7.41	0.05	ug/L	ND	74.1	50-140		
Benzo [k] fluoranthene	10.8	0.05	ug/L	ND	108	50-140		
Chrysene	9.85	0.05	ug/L	ND	98.5	50-140		
Dibenzo [a,h] anthracene	8.72	0.05	ug/L	ND	87.2	50-140		
Fluoranthene	11.2	0.01	ug/L	ND	112	50-140		
Fluorene	10.2	0.05	ug/L	ND	102	50-140		
Indeno [1,2,3-cd] pyrene	10.5	0.05	ug/L	ND	105	50-140		
1-Methylnaphthalene	8.92	0.05	ug/L	ND	89.2	50-140		
2-Methylnaphthalene	8.47	0.05	ug/L	ND	84.7	50-140		
Naphthalene	8.66	0.05	ug/L	ND	86.6	50-140		
Phenanthrene	10.4	0.05	ug/L	ND	104	50-140		
Pyrene	10.0	0.01	ug/L	ND	100	50-140		
Surrogate: 2-Fluorobiphenyl	8.86		ug/L		88.6	50-140		
Surrogate: Terphenyl-d14	9.57		ug/L		95.7	50-140		
Volatiles								
Acetone	108	5.0	ug/L	ND	111	50-140		
Benzene	43.7	0.5	ug/L	ND	109	50-140		
Bromodichloromethane	41.1	0.5	ug/L	ND	102	50-140		
Bromoform	34.4	0.5	ug/L	ND	85.5	50-140		
Bromomethane	45.5	0.5	ug/L	ND	114	50-140		
Carbon Tetrachloride	39.6	0.2	ug/L	ND	98.9	50-140		

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Chlorobenzene	38.6	0.5	ug/L	ND	95.9	50-140	
Chloroform	45.6	0.5	ug/L	ND	113	50-140	
Dibromochloromethane	36.0	0.5	ug/L	ND	90.1	50-140	
Dichlorodifluoromethane	62.9	1.0	ug/L	ND	157	50-140	
1,2-Dichlorobenzene	38.4	0.5	ug/L	ND	95.9	50-140	QM-06
1,3-Dichlorobenzene	39.0	0.5	ug/L	ND	97.6	50-140	
1,4-Dichlorobenzene	38.4	0.5	ug/L	ND	95.5	50-140	
1,1-Dichloroethane	44.6	0.5	ug/L	ND	111	50-140	
1,2-Dichloroethane	43.5	0.5	ug/L	ND	108	50-140	
1,1-Dichloroethylene	43.5	0.5	ug/L	ND	109	50-140	
cis-1,2-Dichloroethylene	42.9	0.5	ug/L	ND	107	50-140	
trans-1,2-Dichloroethylene	44.9	0.5	ug/L	ND	112	50-140	
1,2-Dichloropropane	44.5	0.5	ug/L	ND	111	50-140	
cis-1,3-Dichloropropylene	42.3	0.5	ug/L	ND	106	50-140	
trans-1,3-Dichloropropylene	41.1	0.5	ug/L	ND	102	50-140	
Ethylbenzene	39.2	0.5	ug/L	ND	97.6	50-140	
Ethylene dibromide (dibromoethane, 1,2-	39.2	0.2	ug/L	ND	97.6	50-140	
Hexane	51.6	1.0	ug/L	ND	129	50-140	
Methyl Ethyl Ketone (2-Butanone)	107	5.0	ug/L	ND	104	50-140	
Methyl Isobutyl Ketone	109	5.0	ug/L	ND	111	50-140	
Methyl tert-butyl ether	105	2.0	ug/L	ND	105	50-140	
Methylene Chloride	40.8	5.0	ug/L	ND	101	50-140	
Styrene	39.9	0.5	ug/L	ND	98.7	50-140	
1,1,1,2-Tetrachloroethane	37.0	0.5	ug/L	ND	92.5	50-140	
1,1,2,2-Tetrachloroethane	40.0	0.5	ug/L	ND	99.4	50-140	
Tetrachloroethylene	35.7	0.5	ug/L	ND	88.8	50-140	
Toluene	39.0	0.5	ug/L	ND	97.5	50-140	
1,1,1-Trichloroethane	41.5	0.5	ug/L	ND	104	50-140	
1,1,2-Trichloroethane	42.5	0.5	ug/L	ND	106	50-140	
Trichloroethylene	41.8	0.5	ug/L	ND	104	50-140	
Trichlorofluoromethane	46.1	1.0	ug/L	ND	115	50-140	
Vinyl chloride	47.1	0.5	ug/L	ND	118	50-140	
m,p-Xylenes	77.8	0.5	ug/L	ND	97.0	50-140	
o-Xylene	38.4	0.5	ug/L	ND	95.4	50-140	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	78.9		ug/L		98.6	50-140		
Surrogate: Dibromofluoromethane	122		ug/L		152	50-140		
Surrogate: Toluene-d8	80.1		ug/L		100	50-140		
Benzene	35.0	0.5	ug/L	ND	87.2	50-140		S-GC
Ethylbenzene	37.6	0.5	ug/L	ND	93.6	50-140		
Toluene	35.7	0.5	ug/L	ND	88.3	50-140		
m,p-Xylenes	75.6	0.5	ug/L	ND	94.2	50-140		
o-Xylene	37.4	0.5	ug/L	ND	93.0	50-140		
Surrogate: Toluene-d8	79.4		ug/L		99.2	50-140		

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 26-Nov-2021

Order Date: 29-Oct-2021

Project Description: CT2694.03

Qualifier Notes:

Sample Qualifiers :

- 1 : Holding time had been exceeded upon receipt of the sample at the laboratory.
- 4 : Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QC Qualifiers :

- QM-06 : Due to noted non-homogeneity of the QC sample matrix, the spike recoveries were out side the accepted range. Batch data accepted based on other QC.
- 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:

REVISION-01 : This report includes an updated parameter list, as per client.

The Sample Date for lab provided Trip QC samples is based on the date of preparation at the lab.

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

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.



Project Ref: 012694.03
Quote #: S/O
PO #: _____
Email: s.sutherland@terrapex.com

Client Name: Terrapex Environmental Ltd
Contract Name: Sara Sutherland
Address: 90 Scarscade Rd, Toronto ON
Telephone: 416-529-9215

Parcel Order Number
(Lab Use Only)
2144619

Page 1 of 1
Turnaround Time
 1 day
 2 day
 Regular
Date Required: _____

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

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken	
				Date	Time
1 MW206	GW	3	3	Oct 27/21	4:00pm
2 MW206	GW	3	3	Oct 27/21	4:00pm
3 MW203	GW	3	3	Oct 27/21	4:30pm
4 MW10	GW	4	4	Oct 27/21	6:20pm
5 TRIP BLANK		2	2	Oct 27/21	
6 TRIP SPIKE		2	2	Oct 27/21	
7					
8					
9					
10					

Other Regulation
 REG 150/04
 REG 400/19
 REG 558
 REG 559
 Table 1 Res/Part Metal/Trace
 Table 2 Ind/Comm Course
 Table 3 Agri/Other
 Table Mgmt
 For RSC: Yes No

Required Analysis	PHOS P1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	Cd	B (HWS)	VOCs H
	X							
	X							
	X		X					
	X							X

Method of Delivery: LABBEL
 Verified by: BB
 Received at lab: BB
 Date/Time: 01/11/2021 13:55
 Temperature: 6.3 °C
 Date/Time: 01/11/2021 14:00
 Temperature: 11.40 °C
 Date/Time: 10/25/2021 11:40
 Temperature: 9.4 °C

Received By (Sign): Sfmen
 Date/Time: 10/25/2021 11:40
 Temperature: 9.4 °C
 Received By (Print): Sabrina Jovan
 Date/Time: Oct 29/21 9:20am
 Temperature: 9.4 °C



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59097
Report Date: 3-Dec-2021
Order Date: 26-Nov-2021

Order #: 2149003

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

Parcel ID	Client ID
2149003-01	MW206
2149003-02	MW1888
2149003-03	MW203
2149003-04	MW2800
2149003-05	Trip Blank

Milan Ralitsch, PhD
Senior Technical Manager

Approved By:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Anions	EPA 300.1 - IC	2-Dec-21	2-Dec-21
BTEX by P&T GC-MS	EPA 624 - P&T GC-MS	2-Dec-21	2-Dec-21
Chromium, hexavalent - water	MOE E3056 - colourimetric	30-Nov-21	30-Nov-21
Cyanide, free	MOE E3015 - Auto Colour	2-Dec-21	2-Dec-21
Mercury by CVAA	EPA 245.2 - Cold Vapour AA	2-Dec-21	2-Dec-21
pH	EPA 150.1 - pH probe @25 °C	2-Dec-21	2-Dec-21
PHC F1	CWS Tier 1 - P&T GC-FID	2-Dec-21	2-Dec-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	2-Dec-21	2-Dec-21
REG 153: Metals by ICP/MS, water	EPA 200.8, ICP-MS	29-Nov-21	29-Nov-21
REG 153: PAHs by GC-MS	EPA 625 - GC-MS, extraction	2-Dec-21	3-Dec-21
REG 153: VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	2-Dec-21	2-Dec-21

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Report Date: 03-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets, (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 1 Groundwater
MW203	Anthracene	0.01 ug/L	0.24	0.1 ug/L
MW203	Fluoranthene	0.01 ug/L	0.57	0.4 ug/L
MW203	Phenanthrene	0.05 ug/L	1.69	0.1 ug/L
MW203	Pyrene	0.01 ug/L	0.41	0.2 ug/L

Client ID: MW206		MW1888		MW203		MW2800	
Sample Date: 25-Nov-2021		25-Nov-2021		25-Nov-2021		25-Nov-2021	
Sample ID: 2149003-01		2149003-02		2149003-03		2149003-04	
Matrix: Ground Water		Ground Water		Ground Water		Ground Water	
MDL/Units							

Criteria:

Reg 153/04 (2011)-Table 1 Groundwater

General Inorganics	MDL/Units	25-Nov-2021	25-Nov-2021	25-Nov-2021	25-Nov-2021
Cyanide, free	2 ug/L	-	<2	-	5 ug/L
pH	0.1 pH Units	-	7.4	-	5 - 9 pH units
Anions					
Chloride	1.0 mg/L	-	57.3	-	790,000 ug/L
Metals					
Mercury	0.1 ug/L	-	<0.1	-	0.1 ug/L
Antimony	0.5 ug/L	-	<0.5	<0.5	1.5 ug/L
Arsenic	1.0 ug/L	-	<1.0	<1.0	13 ug/L
Barium	1.0 ug/L	-	103	102	610 ug/L
Beryllium	0.5 ug/L	-	<0.5	<0.5	0.5 ug/L
Boron	10.0 ug/L	-	95.0	90.5	1,700 ug/L
Cadmium	0.2 ug/L	-	<0.2	<0.2	0.5 ug/L
Chromium	1.0 ug/L	-	<1.0	<1.0	11 ug/L
Chromium (VI)	10 ug/L	-	<10	-	25 ug/L
Cobalt	0.5 ug/L	-	<0.5	<0.5	3.8 ug/L
Copper	0.5 ug/L	-	0.9	0.7	5 ug/L
Lead	0.2 ug/L	-	<0.2	<0.2	1.9 ug/L
Molybdenum	0.5 ug/L	-	13.4	12.9	23 ug/L
Nickel	1.0 ug/L	-	1.7	1.6	14 ug/L
Selenium	1.0 ug/L	-	<1.0	<1.0	5 ug/L
Silver	0.2 ug/L	-	<0.2	<0.2	0.3 ug/L
Sodium	200 ug/L	-	18400	18200	490,000 ug/L

	Client ID:				Criteria:
	Sample Date:	Sample ID:	Matrix:	MDL/Units	
	MW206 25-Nov-2021 2149003-01 Ground Water	MW1888 25-Nov-2021 2149003-02 Ground Water	MW203 25-Nov-2021 2149003-03 Ground Water	MW2800 25-Nov-2021 2149003-04 Ground Water	
Thallium	-	-	<0.5	<0.5	0.5 ug/L
Uranium	-	-	<0.5	<0.5	8.9 ug/L
Vanadium	-	-	<0.5	<0.5	3.9 ug/L
Zinc	-	-	<0.5	<0.5	160 ug/L
Volatiles					
Benzene	<0.5	<0.5	<0.5	<0.5	0.5 ug/L
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	0.5 ug/L
Toluene	<0.5	<0.5	<0.5	<0.5	0.8 ug/L
m,p-Xylenes	<0.5	<0.5	<0.5	<0.5	
o-Xylene	<0.5	<0.5	<0.5	<0.5	
Xylenes, total	<0.5	<0.5	<0.5	<0.5	72 ug/L
Toluene-d8	105%	105%	105%	105%	
Hydrocarbons					
F1 PHCs (C6-C10)	<25	<25	<25	<25	420 ug/L
F2 PHCs (C10-C16)	<100	<100	<100	<100	150 ug/L
F3 PHCs (C16-C34)	<100	<100	<100	<100	500 ug/L
F4 PHCs (C34-C50)	<100	<100	<100	<100	500 ug/L
Semi-Volatiles					
Acenaphthene	-	-	0.81	-	4.1 ug/L
Acenaphthylene	-	-	<0.05	-	1 ug/L
Anthracene	-	-	0.24	-	0.1 ug/L
Benzo [a] anthracene	-	-	<0.01	-	0.2 ug/L
Benzo [a] pyrene	-	-	<0.01	-	0.01 ug/L
Benzo [b] fluoranthene	-	-	<0.05	-	0.1 ug/L

	Client ID:					
	MW206	MW1888	MW203	MW2800		
	25-Nov-2021 2149003-01 Ground Water	25-Nov-2021 2149003-02 Ground Water	25-Nov-2021 2149003-03 Ground Water	25-Nov-2021 2149003-04 Ground Water		
Sample ID:	Sample Date:	Sample ID:	Sample Date:	Criteria:		
Matrix:	MDL/Units				Reg 153/04 (2011)-Table 1 Groundwater	
Benzo [g,h,i] perylene	0.05 ug/L	-	<0.05	-	0.2	ug/L
Benzo [k] fluoranthene	0.05 ug/L	-	<0.05	-	0.1	ug/L
Chrysene	0.05 ug/L	-	<0.05	-	0.1	ug/L
Dibenzo [a,h] anthracene	0.05 ug/L	-	<0.05	-	0.2	ug/L
Fluoranthene	0.01 ug/L	-	0.57	-	0.4	ug/L
Fluorene	0.05 ug/L	-	0.69	-	120	ug/L
Indeno [1,2,3-cd] pyrene	0.05 ug/L	-	<0.05	-	0.2	ug/L
1-Methylnaphthalene	0.05 ug/L	-	0.37	-	2	ug/L
2-Methylnaphthalene	0.05 ug/L	-	<0.05	-	2	ug/L
Methylnaphthalene (1&2)	0.10 ug/L	-	0.37	-	2	ug/L
Naphthalene	0.05 ug/L	-	1.22	-	7	ug/L
Phenanthrene	0.05 ug/L	-	1.69	-	0.1	ug/L
Pyrene	0.01 ug/L	-	0.41	-	0.2	ug/L
2-Fluorobiphenyl	Surrogate	-	119%	-		
Terphenyl-d14	Surrogate	-	137%	-		

Client ID:		Trip Blank	-	-	-	-
Sample Date:		24-Nov-2021	-	-	-	-
Sample ID:		2149003-05	-	-	-	-
Matrix:		Water	-	-	-	-
MDL/Units						

Criteria:

Reg 153/04 (2011)-Table 1 Groundwater

Volatiles	MDL/Units	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Criteria
Acetone	5.0 ug/L	<5.0	-	-	-	-	-	-	-	2,700 ug/L
Benzene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
Bromodichloromethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	2 ug/L
Bromoform	0.5 ug/L	<0.5	-	-	-	-	-	-	-	5 ug/L
Bromomethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.89 ug/L
Carbon Tetrachloride	0.2 ug/L	<0.2	-	-	-	-	-	-	-	0.2 ug/L
Chlorobenzene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
Chloroform	0.5 ug/L	<0.5	-	-	-	-	-	-	-	2 ug/L
Dibromochloromethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	2 ug/L
Dichlorodifluoromethane	1.0 ug/L	<1.0	-	-	-	-	-	-	-	590 ug/L
1,2-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
1,3-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
1,4-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
1,1-Dichloroethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
1,2-Dichloroethane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
1,1-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	1.6 ug/L
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	1.6 ug/L
1,2-Dichloropropane	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-	-	-	-	-	
1,3-Dichloropropene, total	0.5 ug/L	<0.5	-	-	-	-	-	-	-	0.5 ug/L

	Client ID:			Trip Blank 24-Nov-2021 2149003-05 Water					Criteria: Reg 153/04 (2011)-Table 1 Groundwater
	Sample Date:	Sample ID:	Matrix:						
	MDL/Units	MDL/Units	MDL/Units						
Ethylbenzene	0.5 ug/L	<0.5	-	-	-	-	-	0.5	ug/L
Ethylene dibromide (dibromoethane)	0.2 ug/L	<0.2	-	-	-	-	-	0.2	ug/L
Hexane	1.0 ug/L	<1.0	-	-	-	-	-	5	ug/L
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	-	-	-	-	-	400	ug/L
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	-	-	-	-	-	640	ug/L
Methyl tert-butyl ether	2.0 ug/L	<2.0	-	-	-	-	-	15	ug/L
Methylene Chloride	5.0 ug/L	<5.0	-	-	-	-	-	5	ug/L
Styrene	0.5 ug/L	<0.5	-	-	-	-	-	0.5	ug/L
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-	-	-	1.1	ug/L
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-	-	-	0.5	ug/L
Tetrachloroethylene	0.5 ug/L	<0.5	-	-	-	-	-	0.5	ug/L
Toluene	0.5 ug/L	<0.5	-	-	-	-	-	0.8	ug/L
1,1,1-Trichloroethane	0.5 ug/L	<0.5	-	-	-	-	-	0.5	ug/L
1,1,2-Trichloroethane	0.5 ug/L	<0.5	-	-	-	-	-	0.5	ug/L
Trichloroethylene	0.5 ug/L	<0.5	-	-	-	-	-	0.5	ug/L
Trichlorofluoromethane	1.0 ug/L	<1.0	-	-	-	-	-	150	ug/L
Vinyl chloride	0.5 ug/L	<0.5	-	-	-	-	-	0.5	ug/L
m,p-Xylenes	0.5 ug/L	<0.5	-	-	-	-	-		
o-Xylene	0.5 ug/L	<0.5	-	-	-	-	-		
Xylenes, total	0.5 ug/L	<0.5	-	-	-	-	-	72	ug/L
4-Bromofluorobenzene	Surrogate	99.5%	-	-	-	-	-		
Dibromofluoromethane	Surrogate	60.2%	-	-	-	-	-		
Toluene-d8	Surrogate	106%	-	-	-	-	-		

Hydrocarbons

Report Date: 03-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Client ID:	Trip Blank	-	-	-	-	Criteria:
Sample Date:	24-Nov-2021	-	-	-	-	Reg 153/04 (2011)-Table 1 Groundwater
Sample ID:	2149003-05	-	-	-	-	
Matrix:	Water	-	-	-	-	
MDL/Units	25 ug/L	-	-	-	-	420 ug/L
F1 PHCs (C6-C10)	<25	-	-	-	-	

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Anions								
Chloride	ND	1.0	mg/L					
General Inorganics								
Cyanide, free	ND	2	ug/L					
Hydrocarbons								
F1 PHCs (C6-C10)	ND	25	ug/L					
F2 PHCs (C10-C16)	ND	100	ug/L					
F3 PHCs (C16-C34)	ND	100	ug/L					
F4 PHCs (C34-C50)	ND	100	ug/L					
Metals								
Mercury	ND	0.1	ug/L					
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 (VI)	ND	10	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					
Sodium	ND	200	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					
Semi-Volatiles								
Acenaphthene	ND	0.05	ug/L					
Acenaphthylene	ND	0.05	ug/L					
Anthracene	ND	0.01	ug/L					
Benzo [a] anthracene	ND	0.01	ug/L					
Benzo [a] pyrene	ND	0.01	ug/L					
Benzo [b] fluoranthene	ND	0.05	ug/L					
Benzo [g,h,i] perylene	ND	0.05	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Benzo [k] fluoranthene	ND	0.05	ug/L					
Chrysene	ND	0.05	ug/L					
Dibenzo [a,h] anthracene	ND	0.05	ug/L					
Fluoranthene	ND	0.01	ug/L					
Fluorene	ND	0.05	ug/L					
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L					
1-Methylnaphthalene	ND	0.05	ug/L					
2-Methylnaphthalene	ND	0.05	ug/L					
Methylnaphthalene (1&2)	ND	0.10	ug/L					
Naphthalene	ND	0.05	ug/L					
Phenanthrene	ND	0.05	ug/L					
Pyrene	ND	0.01	ug/L					
Surrogate: 2-Fluorobiphenyl	2.52		ug/L	63.4	50-140			
Surrogate: Terphenyl-d14	5.22		ug/L	130	50-140			
Volatiles								
Acetone	ND	5.0	ug/L					
Benzene	ND	0.5	ug/L					
Bromodichloromethane	ND	0.5	ug/L					
Bromoform	ND	0.5	ug/L					
Bromomethane	ND	0.5	ug/L					
Carbon Tetrachloride	ND	0.2	ug/L					
Chlorobenzene	ND	0.5	ug/L					
Chloroform	ND	0.5	ug/L					
Dibromochloromethane	ND	0.5	ug/L					
Dichlorodifluoromethane	ND	1.0	ug/L					
1,2-Dichlorobenzene	ND	0.5	ug/L					
1,3-Dichlorobenzene	ND	0.5	ug/L					
1,4-Dichlorobenzene	ND	0.5	ug/L					
1,1-Dichloroethane	ND	0.5	ug/L					
1,1-Dichloroethylene	ND	0.5	ug/L					
cis-1,2-Dichloroethylene	ND	0.5	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					
Ethylbenzene	ND	0.5	ug/L					
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L					
Hexane	ND	1.0	ug/L					
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L					

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Methyl Isobutyl Ketone	ND	5.0	ug/L				
Methyl tert-butyl ether	ND	2.0	ug/L				
Methylene Chloride	ND	5.0	ug/L				
Styrene	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				
Toluene	ND	0.5	ug/L				
1,1,1-Trichloroethane	ND	0.5	ug/L				
1,1,2-Trichloroethane	ND	0.5	ug/L				
Trichloroethylene	ND	0.5	ug/L				
Trichlorofluoromethane	ND	1.0	ug/L				
Vinyl chloride	ND	0.5	ug/L				
m,p-Xylenes	ND	0.5	ug/L				
o-Xylene	ND	0.5	ug/L				
Xylenes, total	ND	0.5	ug/L				
Surrogate: 4-Bromofluorobenzene	79.3		ug/L	99.2	50-140		
Surrogate: Dibromofluoromethane	54.2		ug/L	67.7	50-140		
Surrogate: Toluene-d8	82.9		ug/L	104	50-140		
Benzene	ND	0.5	ug/L				
Ethylbenzene	ND	0.5	ug/L				
Toluene	ND	0.5	ug/L				
m,p-Xylenes	ND	0.5	ug/L				
o-Xylene	ND	0.5	ug/L				
Xylenes, total	ND	0.5	ug/L				
Surrogate: Toluene-d8	82.9		ug/L	104	50-140		

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Anions							
Chloride	53.7	1.0	mg/L	57.3	6.5	10	
General Inorganics							
Cyanide, free	ND	2	ug/L	ND	NC	20	
pH	7.4	0.1	pH Units	7.4	0.4	10	
Hydrocarbons							
F1 PHCs (C6-C10)	ND	25	ug/L	ND	NC	30	
Metals							
Mercury	ND	0.1	ug/L	ND	NC	20	
Antimony	1.7	0.5	ug/L	ND	NC	20	
Arsenic	1.2	1.0	ug/L	1.2	0.1	20	
Barium	227	1.0	ug/L	224	1.3	20	
Beryllium	ND	0.5	ug/L	ND	NC	20	
Boron	178	10.0	ug/L	188	5.9	20	
Cadmium	ND	0.2	ug/L	ND	NC	20	
Chromium (VI)	ND	10	ug/L	ND	NC	20	
Chromium	ND	1.0	ug/L	ND	NC	20	
Cobalt	5.0	0.5	ug/L	4.9	2.6	20	
Copper	2.3	0.5	ug/L	2.2	6.0	20	
Lead	ND	0.2	ug/L	ND	NC	20	
Molybdenum	25.8	0.5	ug/L	25.2	2.4	20	
Nickel	9.0	1.0	ug/L	8.9	0.2	20	
Selenium	1.9	1.0	ug/L	1.9	0.9	20	
Silver	0.2	0.2	ug/L	0.2	9.8	20	
Sodium	272000	200	ug/L	265000	2.7	20	
Thallium	ND	0.5	ug/L	0.5	NC	20	
Uranium	5.4	0.2	ug/L	4.8	11.9	20	
Vanadium	0.6	0.5	ug/L	0.6	4.8	20	
Zinc	ND	5.0	ug/L	ND	NC	20	
Volatiles							
Acetone	ND	5.0	ug/L	ND	NC	30	
Benzene	ND	0.5	ug/L	ND	NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND	NC	30	
Bromoform	ND	0.5	ug/L	ND	NC	30	
Bromomethane	ND	0.5	ug/L	ND	NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND	NC	30	
Chlorobenzene	ND	0.5	ug/L	ND	NC	30	
Chloroform	ND	0.5	ug/L	ND	NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Dibromochloromethane	ND	0.5	ug/L	ND			30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			30	
Ethylbenzene	ND	0.5	ug/L	ND			30	
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L	ND			30	
Hexane	ND	1.0	ug/L	ND			30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			30	
Methylene Chloride	ND	5.0	ug/L	ND			30	
Styrene	ND	0.5	ug/L	ND			30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			30	
Tetrachloroethylene	ND	0.5	ug/L	ND			30	
Toluene	ND	0.5	ug/L	ND			30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			30	
Trichloroethylene	ND	0.5	ug/L	ND			30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			30	
Vinyl chloride	ND	0.5	ug/L	ND			30	
m,p-Xylenes	ND	0.5	ug/L	ND			30	
o-Xylene	ND	0.5	ug/L	ND			30	
Surrogate: 4-Bromofluorobenzene	77.9		ug/L		97.3	50-140		
Surrogate: Dibromofluoromethane	46.6		ug/L		58.2	50-140		
Surrogate: Toluene-d8	84.2		ug/L		105	50-140		
Benzene	ND	0.5	ug/L	ND			30	
Ethylbenzene	ND	0.5	ug/L	ND			30	
Toluene	ND	0.5	ug/L	ND			30	
m,p-Xylenes	ND	0.5	ug/L	ND			30	
o-Xylene	ND	0.5	ug/L	ND			30	

Report Date: 03-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
---------	--------	-----------------	-------	---------------	------	------------	-----------	-------

Surrogate: Toluene-d8 84.2 105 50-140

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	%REC Limit	RPD Limit	RPD Limit	Notes
Anions									
Chloride	65.8	1.0	mg/L	57.3	84.9	77-123			
General Inorganics									
Cyanide, free	24.2	2	ug/L	ND	108	70-130			
Hydrocarbons									
F1 PHCs (C6-C10)	714	25	ug/L	ND	101	68-117			
F2 PHCs (C10-C16)	1470	100	ug/L	ND	89.2	60-140			
F3 PHCs (C16-C34)	3540	100	ug/L	ND	95.4	60-140			
F4 PHCs (C34-C50)	2270	100	ug/L	ND	85.0	60-140			
Metals									
Mercury	3.34	0.1	ug/L	ND	111	70-130			
Antimony	51.2	0.5	ug/L	ND	102	70-130			
Arsenic	58.0	1.0	ug/L	1.2	114	70-130			
Barium	265	1.0	ug/L	224	81.5	70-130			
Beryllium	50.4	0.5	ug/L	ND	101	70-130			
Boron	214	10.0	ug/L	188	50.9	70-130			QM-4X
Cadmium	46.8	0.2	ug/L	ND	93.6	70-130			
Chromium (VI)	205	10	ug/L	ND	102	70-130			
Chromium	48.8	1.0	ug/L	ND	97.7	70-130			
Cobalt	51.1	0.5	ug/L	4.9	92.4	70-130			
Copper	49.7	0.5	ug/L	2.2	95.1	70-130			
Lead	42.1	0.2	ug/L	ND	84.1	70-130			
Molybdenum	74.7	0.5	ug/L	25.2	98.9	70-130			
Nickel	56.0	1.0	ug/L	8.9	94.1	70-130			
Selenium	59.2	1.0	ug/L	1.9	115	70-130			
Silver	39.9	0.2	ug/L	0.2	79.4	70-130			
Sodium	240000	200	ug/L	265000	-2500	70-130			QM-4X
Thallium	43.8	0.5	ug/L	0.5	86.6	70-130			
Uranium	52.0	0.2	ug/L	4.8	94.3	70-130			
Vanadium	50.9	0.5	ug/L	0.6	101	70-130			
Zinc	49.1	5.0	ug/L	ND	98.3	70-130			
Semi-Volatiles									
Acenaphthene	1.75	0.05	ug/L	ND	87.6	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Acenaphthylene	1.47	0.05	ug/L	ND	73.6	50-140			
Anthracene	1.55	0.01	ug/L	ND	77.7	50-140			
Benzo [a] anthracene	1.79	0.01	ug/L	ND	89.3	50-140			
Benzo [a] pyrene	1.86	0.01	ug/L	ND	93.0	50-140			
Benzo [b] fluoranthene	2.06	0.05	ug/L	ND	103	50-140			
Benzo [g,h,i] perylene	2.31	0.05	ug/L	ND	115	50-140			
Benzo [k] fluoranthene	1.90	0.05	ug/L	ND	94.9	50-140			
Chrysene	2.21	0.05	ug/L	ND	110	50-140			
Dibenzo [a,h] anthracene	2.22	0.05	ug/L	ND	111	50-140			
Fluoranthene	2.04	0.01	ug/L	ND	102	50-140			
Fluorene	1.95	0.05	ug/L	ND	97.4	50-140			
Indeno [1,2,3-cd] pyrene	2.23	0.05	ug/L	ND	112	50-140			
1-Methylnaphthalene	1.67	0.05	ug/L	ND	83.5	50-140			
2-Methylnaphthalene	1.63	0.05	ug/L	ND	81.7	50-140			
Naphthalene	1.51	0.05	ug/L	ND	75.7	50-140			
Phenanthrene	2.00	0.05	ug/L	ND	99.9	50-140			
Pyrene	2.14	0.01	ug/L	ND	107	50-140			
Surrogate: 2-Fluorobiphenyl	4.62		ug/L		116	50-140			
Surrogate: Terphenyl-d14	5.28		ug/L		132	50-140			
Volatiles									
Acetone	107	5.0	ug/L	ND	110	50-140			
Benzene	39.6	0.5	ug/L	ND	98.6	50-140			
Bromodichloromethane	39.2	0.5	ug/L	ND	97.6	50-140			
Bromoform	40.1	0.5	ug/L	ND	99.7	50-140			
Bromomethane	40.8	0.5	ug/L	1.26	98.9	50-140			
Carbon Tetrachloride	35.6	0.2	ug/L	ND	89.1	50-140			
Chlorobenzene	39.6	0.5	ug/L	ND	98.6	50-140			
Chloroform	38.8	0.5	ug/L	ND	96.6	50-140			
Dibromochloromethane	39.3	0.5	ug/L	ND	98.2	50-140			
Dichlorodifluoromethane	40.0	1.0	ug/L	ND	100	50-140			
1,2-Dichlorobenzene	39.6	0.5	ug/L	ND	99.0	50-140			
1,3-Dichlorobenzene	39.5	0.5	ug/L	ND	98.8	50-140			
1,4-Dichlorobenzene	39.1	0.5	ug/L	ND	97.3	50-140			
1,1-Dichloroethane	34.0	0.5	ug/L	ND	85.1	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
1,2-Dichloroethane	42.3	0.5	ug/L	ND	105	50-140		
1,1-Dichloroethylene	29.8	0.5	ug/L	ND	74.6	50-140		
cis-1,2-Dichloroethylene	34.5	0.5	ug/L	ND	85.7	50-140		
trans-1,2-Dichloroethylene	35.2	0.5	ug/L	ND	87.6	50-140		
1,2-Dichloropropane	40.6	0.5	ug/L	ND	102	50-140		
cis-1,3-Dichloropropylene	40.3	0.5	ug/L	ND	101	50-140		
trans-1,3-Dichloropropylene	38.3	0.5	ug/L	ND	95.3	50-140		
Ethylbenzene	40.0	0.5	ug/L	ND	99.4	50-140		
Ethylene dibromide (dibromoethane, 1,2-)	40.9	0.2	ug/L	ND	102	50-140		
Hexane	40.9	1.0	ug/L	ND	102	50-140		
Methyl Ethyl Ketone (2-Butanone)	118	5.0	ug/L	ND	115	50-140		
Methyl Isobutyl Ketone	127	5.0	ug/L	ND	130	50-140		
Methyl tert-butyl ether	112	2.0	ug/L	ND	112	50-140		
Methylene Chloride	34.6	5.0	ug/L	ND	86.0	50-140		
Styrene	39.9	0.5	ug/L	ND	98.9	50-140		
1,1,1,2-Tetrachloroethane	40.1	0.5	ug/L	ND	100	50-140		
1,1,2,2-Tetrachloroethane	43.4	0.5	ug/L	ND	108	50-140		
Tetrachloroethylene	37.9	0.5	ug/L	ND	94.2	50-140		
Toluene	40.3	0.5	ug/L	ND	101	50-140		
1,1,1-Trichloroethane	36.2	0.5	ug/L	ND	90.6	50-140		
1,1,2-Trichloroethane	43.1	0.5	ug/L	ND	107	50-140		
Trichloroethylene	40.2	0.5	ug/L	ND	100	50-140		
Trichlorofluoromethane	35.0	1.0	ug/L	ND	87.6	50-140		
Vinyl chloride	38.0	0.5	ug/L	ND	95.1	50-140		
m,p-Xylenes	77.9	0.5	ug/L	ND	97.1	50-140		
o-Xylene	38.7	0.5	ug/L	ND	96.2	50-140		
Surrogate: 4-Bromofluorobenzene	82.8				103	50-140		
Surrogate: Dibromofluoromethane	83.6				104	50-140		
Surrogate: Toluene-d8	80.4				101	50-140		
Benzene	39.6	0.5	ug/L	ND	98.6	50-140		
Ethylbenzene	40.0	0.5	ug/L	ND	99.4	50-140		
Toluene	40.3	0.5	ug/L	ND	101	50-140		
m,p-Xylenes	77.9	0.5	ug/L	ND	97.1	50-140		
o-Xylene	38.7	0.5	ug/L	ND	96.2	50-140		

Report Date: 03-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	RPD Limit	Notes
Surrogate: Toluene-d8	80.4		ug/L		101	50-140			

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 03-Dec-2021

Order Date: 26-Nov-2021

Project Description: CT2694.03

Qualifier Notes:

QC Qualifiers :

QM-4X : The spike recovery was outside of QC acceptance limits due to elevated analyte concentration.

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
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.

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.



Parcel Order Number
(Lab Use Only)
214 9003

Chain Of Custody
(Lab Use Only)
NO 59097

Client Name: **Tenorex Environmental Ltd**
 Contact Name: **Sasha Sutherland**
 Address: **90 Scariswale Road, Toronto, ON**
M3B 2R7
 Telephone: **416-529-9215**

Project Ref: **CT2694.03**
 Quote #: **S.D**
 PO #:
 E-mail: **S.Sutherland@tenorex.com**

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

Regulation 153/04
 Table 1 Rec/Park Med/Fin REG 558 PWCD
 Table 2 Ind/Comm Garst COME MISA
 Table 3 Agri/Other SU - San SU - Storm
 Table Min: Other:

Sample ID/Location Name	Matrix	# of Containers	Sample Taken		Required Analysis
			Date	Time	
1 MW206	GW	3	Nov 25, 2021	11:00 AM	BTEX, PAHs, Metals, Inorganics, VOCs
2 MW1888	GW	3	Nov 25, 2021	11:05 AM	BTEX, PAHs, Metals, Inorganics, VOCs
3 MW203	GW	9	Nov 25, 2021	11:30 AM	BTEX, PAHs, Metals, Inorganics, VOCs
4 MW2800	GW	1	Nov 25, 2021	11:35 AM	BTEX, PAHs, Metals, Inorganics, VOCs
5 Trip Blank	GW	2	Nov 24, 2021	9:00 AM	BTEX, PAHs, Metals, Inorganics, VOCs
6					
7					
8					
9					
10					

Comments: **Vials included with MW203 to be placed on hold**

Method of Delivery: **RABBER**
 Verified By: **Am**
 Received By: **Am**
 Date/Time: **29/11/21 10:00**
 Date/Time: **29/11/21 10:00**
 Temperature: **8.4 °C**
 Temperature: **8.4 °C**
 pH Verified: By: **12.15**



TRUSTED.
RESPONSIVE.
RELIABLE.

1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59101

Report Date: 13-Dec-2021
Order Date: 26-Nov-2021

Order #: 2149005

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

Paracel ID	Client ID
2149005-01	TCLP-1

Approved By:

Milan Ralitsch, PhD
Senior Technical Manager

Report Date: 13-Dec-2021
Order Date: 26-Nov-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	10-Dec-21	11-Dec-21
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	8-Dec-21	10-Dec-21
Mercury by CVAA	EPA 7471B - CVAA, digestion	11-Dec-21	11-Dec-21
PHC F1	CWS Tier 1 - P&T GC-FID	9-Dec-21	10-Dec-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	8-Dec-21	10-Dec-21
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	13-Dec-21	13-Dec-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	9-Dec-21	10-Dec-21
REG 153: VOCs by P&T GC-MS	EPA 8260 - P&T GC-MS	9-Dec-21	10-Dec-21
REG 558 - Mercury by CVAA	TCLP EPA 7470A, CVAA	13-Dec-21	13-Dec-21
REG 558 - Metals, ICP-MS	TCLP EPA 6020 - Digestion - ICP-MS	13-Dec-21	13-Dec-21
Solids, %	Gravimetric, calculation	10-Dec-21	13-Dec-21

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Summary of Criteria Exceedances

(If this page is blank then there are no exceedances)
 Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T1 Res	Reg 558 Schedule 4
<p>CITTAWA • MISSISSAUGA • HAMILTON • KINGSTON • LONDON • NIAGARA • WINDSOR • RICHMOND HILL</p> <p>1-800-749-1947 • www.paracel.com</p>					

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Client ID:	TCLP-1	Criteria:	Reg 153/04 -T1 Res Reg 558 Schedule 4
Sample Date:	26-Nov-21 09:00		
Sample ID:	2149005-01		
Matrix:	Soil		
MDL/Units			

Physical Characteristics

% Solids	0.1 % by Wt.	88.2	-	-	-	-	-	-
----------	--------------	------	---	---	---	---	---	---

EPA 1311 - TCLP Leachate Metals

Arsenic	0.05 mg/L	<0.05	-	-	-	-	-	2.5 mg/L
Barium	0.05 mg/L	0.38	-	-	-	-	-	100 mg/L
Boron	0.05 mg/L	0.06	-	-	-	-	-	500 mg/L
Cadmium	0.01 mg/L	<0.01	-	-	-	-	-	0.5 mg/L
Chromium	0.05 mg/L	<0.05	-	-	-	-	-	5 mg/L
Lead	0.05 mg/L	<0.05	-	-	-	-	-	5 mg/L
Mercury	0.005 mg/L	<0.005	-	-	-	-	-	0.1 mg/L
Selenium	0.05 mg/L	<0.05	-	-	-	-	-	1 mg/L
Silver	0.05 mg/L	<0.05	-	-	-	-	-	5 mg/L
Uranium	0.05 mg/L	<0.05	-	-	-	-	-	10 mg/L

Metals

Antimony	1.0 ug/g	<1.0	-	-	-	-	-	1.3 ug/g
Arsenic	1.0 ug/g	2.9	-	-	-	-	-	18 ug/g
Barium	1.0 ug/g	82.9	-	-	-	-	-	220 ug/g
Beryllium	0.5 ug/g	0.6	-	-	-	-	-	2.5 ug/g
Boron	5.0 ug/g	9.4	-	-	-	-	-	36 ug/g
Boron, available	0.5 ug/g	0.7	-	-	-	-	-	-
Cadmium	0.5 ug/g	<0.5	-	-	-	-	-	1.2 ug/g
Chromium (VI)	0.2 ug/g	<0.2	-	-	-	-	-	0.66 ug/g
Chromium	5.0 ug/g	18.3	-	-	-	-	-	70 ug/g
Cobalt	1.0 ug/g	7.6	-	-	-	-	-	21 ug/g
Copper	5.0 ug/g	14.2	-	-	-	-	-	92 ug/g
Lead	1.0 ug/g	10.2	-	-	-	-	-	120 ug/g

Report Date: 13-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Client ID:	TCLP-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Date:	26-Nov-21 09:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample ID:	2149005-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Matrix:	Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MDL/Units																				

Criteria:

Reg 153/04 -T1 Res
 Reg 558 Schedule 4

Metals

Mercury	0.1 ug/g	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27 ug/g	-	
Molybdenum	1.0 ug/g	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2 ug/g	-
Nickel	5.0 ug/g	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82 ug/g	-
Selenium	1.0 ug/g	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5 ug/g	-
Silver	0.3 ug/g	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 ug/g	-
Thallium	1.0 ug/g	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 ug/g	-
Uranium	1.0 ug/g	<1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5 ug/g	-
Vanadium	10.0 ug/g	29.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86 ug/g	-
Zinc	20.0 ug/g	44.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	290 ug/g	-

Volatiles

Acetone	0.50 ug/g	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5 ug/g	-
Benzene	0.02 ug/g	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02 ug/g	-
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
Bromoform	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
Bromomethane	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
Chloroform	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 ug/g	-



Order #: 2149005

Report Date: 13-Dec-2021

Order Date: 26-Nov-2021

Project Description: CT2694.03

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

MDL/Units	Client ID:	TCLP-1	-	-	-	-	Criteria:
	Sample Date:	26-Nov-21 09:00	-	-	-	-	Reg 153/04 -T1 Res
	Sample ID:	2149005-01	-	-	-	-	Reg 558 Schedule 4
	Matrix:	Soil	-	-	-	-	

Volatiles

1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Hexane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	-	0.5 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	-	0.5 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Styrene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Toluene	0.05 ug/g	<0.05	-	-	-	-	0.2 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	-	0.25 ug/g	-
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	-	0.02 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-	-

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Client ID:	TCLP-1	-	-	-	-	Criteria:
Sample Date:	26-Nov-21 09:00	-	-	-	-	Reg 153/04 -T1 Res
Sample ID:	2149005-01	-	-	-	-	Reg 558 Schedule 4
Matrix:	Soil	-	-	-	-	
MDL/Units						

Volatiles

o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
4-Bromofluorobenzene	Surrogate	103%	-	-	-	-	-
Dibromofluoromethane	Surrogate	78.4%	-	-	-	-	-
Toluene-d8	Surrogate	106%	-	-	-	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	25 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	10 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	58	-	-	-	240 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	-	120 ug/g	-

Semi-Volatiles

Acenaphthene	0.02 ug/g	<0.02	-	-	-	0.072 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	0.093 ug/g	-
Anthracene	0.02 ug/g	<0.02	-	-	-	0.16 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.48 ug/g	-
Chrysene	0.02 ug/g	<0.02	-	-	-	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.02	-	-	-	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	-	-	-	0.12 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	0.23 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	0.59 ug/g	-

Client ID:	TCLP-1	-	-	-	-	Criteria:
Sample Date:	26-Nov-21 09:00	-	-	-	-	Reg 153/04 -T1 Res Reg 558 Schedule 4
Sample ID:	2149005-01	-	-	-	-	
Matrix:	Soil	-	-	-	-	
MDL/Units						

Semi-Volatiles

2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	0.59 ug/g	-
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	-	-	-	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	-	-	-	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	-	-	-	0.69 ug/g	-
Pyrene	0.02 ug/g	<0.02	-	-	-	1 ug/g	-
2-Fluorobiphenyl	Surrogate	55.3%	-	-	-	-	-
Terphenyl-d14	Surrogate	84.9%	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC Limit	RPD Limit	RPD Limit	Notes
EPA 1311 - TCLP Leachate Metals							
Arsenic	ND	0.05	mg/L				
Barium	ND	0.05	mg/L				
Boron	ND	0.05	mg/L				
Cadmium	ND	0.01	mg/L				
Chromium	ND	0.05	mg/L				
Lead	ND	0.05	mg/L				
Mercury	ND	0.005	mg/L				
Selenium	ND	0.05	mg/L				
Silver	ND	0.05	mg/L				
Uranium	ND	0.05	mg/L				
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				

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC Limit	RPD	RPD Limit	Notes
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				
Semi-Volatiles							
Acenaphthene	ND	0.02	ug/g				
Acenaphthylene	ND	0.02	ug/g				
Anthracene	ND	0.02	ug/g				
Benzo [a] anthracene	ND	0.02	ug/g				
Benzo [a] pyrene	ND	0.02	ug/g				
Benzo [b] fluoranthene	ND	0.02	ug/g				
Benzo [g,h,i] perylene	ND	0.02	ug/g				
Benzo [k] fluoranthene	ND	0.02	ug/g				
Chrysene	ND	0.02	ug/g				
Dibenzo [a,h] anthracene	ND	0.02	ug/g				
Fluoranthene	ND	0.02	ug/g				
Fluorene	ND	0.02	ug/g				
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g				
1-Methylnaphthalene	ND	0.02	ug/g				
2-Methylnaphthalene	ND	0.02	ug/g				
Methylnaphthalene (1&2)	ND	0.03	ug/g				
Naphthalene	ND	0.01	ug/g				
Phenanthrene	ND	0.02	ug/g				
Pyrene	ND	0.02	ug/g				
Surrogate: 2-Fluorobiphenyl	0.102		ug/g	51.2		50-140	
Surrogate: Terphenyl-d14	0.160		ug/g	80.2		50-140	
Volatiles							
Acetone	ND	0.50	ug/g				
Benzene	ND	0.02	ug/g				
Bromodichloromethane	ND	0.05	ug/g				

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC Limit	RPD Limit	RPD Limit	Notes
Bromoform	ND	0.05	ug/g				
Bromomethane	ND	0.05	ug/g				
Carbon Tetrachloride	ND	0.05	ug/g				
Chlorobenzene	ND	0.05	ug/g				
Chloroform	ND	0.05	ug/g				
Dibromochloromethane	ND	0.05	ug/g				
Dichlorodifluoromethane	ND	0.05	ug/g				
1,2-Dichlorobenzene	ND	0.05	ug/g				
1,3-Dichlorobenzene	ND	0.05	ug/g				
1,4-Dichlorobenzene	ND	0.05	ug/g				
1,1-Dichloroethane	ND	0.05	ug/g				
1,2-Dichloroethane	ND	0.05	ug/g				
1,1-Dichloroethylene	ND	0.05	ug/g				
cis-1,2-Dichloroethylene	ND	0.05	ug/g				
trans-1,2-Dichloroethylene	ND	0.05	ug/g				
1,2-Dichloropropane	ND	0.05	ug/g				
cis-1,3-Dichloropropylene	ND	0.05	ug/g				
trans-1,3-Dichloropropylene	ND	0.05	ug/g				
1,3-Dichloropropene, total	ND	0.05	ug/g				
Ethylbenzene	ND	0.05	ug/g				
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g				
Hexane	ND	0.05	ug/g				
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g				
Methyl Isobutyl Ketone	ND	0.50	ug/g				
Methyl tert-butyl ether	ND	0.05	ug/g				
Methylene Chloride	ND	0.05	ug/g				
Styrene	ND	0.05	ug/g				
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g				
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g				
Tetrachloroethylene	ND	0.05	ug/g				
Toluene	ND	0.05	ug/g				
1,1,1-Trichloroethane	ND	0.05	ug/g				

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	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: 4-Bromofluorobenzene	8.18		ug/g	102	50-140			
Surrogate: Dibromofluoromethane	6.54		ug/g	81.8	50-140			
Surrogate: Toluene-d8	8.53		ug/g	107	50-140			

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Metals									
Arsenic	ND	0.05	mg/L	ND			NC	29	
Barium	0.365	0.05	mg/L	0.382			4.6	34	
Boron	0.068	0.05	mg/L	0.060			12.4	33	
Cadmium	ND	0.01	mg/L	ND			NC	33	
Chromium	ND	0.05	mg/L	ND			NC	32	
Lead	ND	0.05	mg/L	ND			NC	32	
Mercury	ND	0.005	mg/L	ND			NC	30	
Selenium	ND	0.05	mg/L	ND			NC	28	
Silver	ND	0.05	mg/L	ND			NC	28	
Uranium	ND	0.05	mg/L	ND			NC	27	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	106	8	ug/g	95			10.7	30	
F4 PHCs (C34-C50)	77	6	ug/g	66			16.1	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	7.8	1.0	ug/g	8.0			3.4	30	
Barium	55.7	1.0	ug/g	55.3			0.7	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron, available	ND	0.5	ug/g	ND			NC	35	
Boron	11.4	5.0	ug/g	8.3			NC	30	
Cadmium	0.5	0.5	ug/g	0.5			8.2	30	
Chromium (VI)	0.5	0.2	ug/g	0.4			12.5	35	
Chromium	13.3	5.0	ug/g	13.4			0.9	30	
Cobalt	5.5	1.0	ug/g	5.7			3.6	30	
Copper	14.6	5.0	ug/g	14.6			0.2	30	
Lead	24.0	1.0	ug/g	22.4			6.9	30	
Mercury	ND	0.1	ug/g	ND			NC	30	

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	10.6	5.0	ug/g	10.9			2.5	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	0.5	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	24.8	10.0	ug/g	25.3			2.0	30	
Zinc	170	20.0	ug/g	159			7.0	30	
Physical Characteristics									
% Solids	85.4	0.1	% by Wt.	85.3			0.1	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	0.119		ug/g		50.8	50-140			
Surrogate: Terphenyl-d14	0.185		ug/g		79.0	50-140			

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	5.28		ug/g		103	50-140			
Surrogate: Dibromofluoromethane	3.95		ug/g		76.9	50-140			
Surrogate: Toluene-d8	5.50		ug/g		107	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Metals									
Arsenic	0.571	0.05	mg/L	ND	114	83-119			
Barium	0.929	0.05	mg/L	0.382	109	83-116			
Boron	0.560	0.05	mg/L	0.060	100	71-128			
Cadmium	0.520	0.01	mg/L	ND	104	78-119			
Chromium	0.532	0.05	mg/L	ND	106	80-124			
Lead	0.496	0.05	mg/L	ND	99.1	77-126			
Mercury	0.0276	0.005	mg/L	ND	92.1	70-130			
Selenium	0.568	0.05	mg/L	ND	114	81-125			
Silver	0.528	0.05	mg/L	ND	106	70-128			
Uranium	0.503	0.05	mg/L	ND	101	70-131			
Hydrocarbons									
F1 PHCs (C6-C10)	78	7	ug/g	ND	110	80-120			
F2 PHCs (C10-C16)	138	4	ug/g	ND	124	60-140			
F3 PHCs (C16-C34)	419	8	ug/g	95	130	60-140			
F4 PHCs (C34-C50)	197	6	ug/g	66	72.8	60-140			
Metals									
Antimony	139	1.0	ug/g	ND	112	70-130			
Arsenic	160	1.0	ug/g	8.0	121	70-130			
Barium	207	1.0	ug/g	55.3	121	70-130			
Beryllium	135	0.5	ug/g	ND	108	70-130			
Boron, available	4.96	0.5	ug/g	ND	99.1	70-122			
Boron	143	5.0	ug/g	8.3	108	70-130			
Cadmium	143	0.5	ug/g	0.5	114	70-130			
Chromium (VI)	4.7	0.2	ug/g	0.4	73.0	70-130			
Chromium	157	5.0	ug/g	13.4	115	70-130			
Cobalt	147	1.0	ug/g	5.7	113	70-130			
Copper	155	5.0	ug/g	14.6	113	70-130			
Lead	163	1.0	ug/g	22.4	112	70-130			
Mercury	1.41	0.1	ug/g	ND	94.3	70-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Molybdenum	148	1.0	ug/g	ND	118	70-130		
Nickel	150	5.0	ug/g	10.9	111	70-130		
Selenium	148	1.0	ug/g	ND	119	70-130		
Silver	138	0.3	ug/g	ND	111	70-130		
Thallium	141	1.0	ug/g	ND	113	70-130		
Uranium	145	1.0	ug/g	ND	116	70-130		
Vanadium	170	10.0	ug/g	25.3	115	70-130		
Zinc	313	20.0	ug/g	159	124	70-130		
Semi-Volatiles								
Acenaphthene	0.058	0.02	ug/g	ND	54.8	50-140		
Acenaphthylene	0.057	0.02	ug/g	ND	53.5	50-140		
Anthracene	0.068	0.02	ug/g	ND	64.3	50-140		
Benzo [a] anthracene	0.100	0.02	ug/g	ND	93.9	50-140		
Benzo [a] pyrene	0.119	0.02	ug/g	0.020	92.4	50-140		
Benzo [b] fluoranthene	0.116	0.02	ug/g	0.028	82.3	50-140		
Benzo [g,h,i] perylene	0.105	0.02	ug/g	ND	99.0	50-140		
Benzo [k] fluoranthene	0.093	0.02	ug/g	ND	87.3	50-140		
Chrysene	0.108	0.02	ug/g	0.020	82.5	50-140		
Dibenzo [a,h] anthracene	0.088	0.02	ug/g	ND	83.0	50-140		
Fluoranthene	0.110	0.02	ug/g	0.029	76.2	50-140		
Fluorene	0.062	0.02	ug/g	ND	57.8	50-140		
Indeno [1,2,3-cd] pyrene	0.098	0.02	ug/g	ND	91.7	50-140		
1-Methylnaphthalene	0.067	0.02	ug/g	ND	62.5	50-140		
2-Methylnaphthalene	0.063	0.02	ug/g	ND	58.9	50-140		
Naphthalene	0.058	0.01	ug/g	ND	54.9	50-140		
Phenanthrene	0.079	0.02	ug/g	ND	74.6	50-140		
Pyrene	0.104	0.02	ug/g	0.024	74.7	50-140		S-GC
Surrogate: 2-Fluorobiphenyl	0.0950		ug/g		47.7	50-140		
Surrogate: Terphenyl-d14	0.150		ug/g		74.8	50-140		
Volatiles								

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Acetone	8.90	0.50	ug/g	ND	91.2	50-140			
Benzene	3.66	0.02	ug/g	ND	91.1	60-130			
Bromodichloromethane	3.18	0.05	ug/g	ND	79.1	60-130			
Bromoform	3.36	0.05	ug/g	ND	83.5	60-130			
Bromomethane	4.39	0.05	ug/g	ND	110	50-140			
Carbon Tetrachloride	3.09	0.05	ug/g	ND	77.4	60-130			
Chlorobenzene	3.73	0.05	ug/g	ND	92.9	60-130			
Chloroform	3.45	0.05	ug/g	ND	85.8	60-130			
Dibromochloromethane	3.20	0.05	ug/g	ND	79.9	60-130			
Dichlorodifluoromethane	4.63	0.05	ug/g	ND	116	50-140			
1,2-Dichlorobenzene	3.57	0.05	ug/g	ND	89.2	60-130			
1,3-Dichlorobenzene	3.60	0.05	ug/g	ND	90.1	60-130			
1,4-Dichlorobenzene	3.60	0.05	ug/g	ND	89.6	60-130			
1,1-Dichloroethane	3.46	0.05	ug/g	ND	86.4	60-130			
1,2-Dichloroethane	3.52	0.05	ug/g	ND	87.5	60-130			
1,1-Dichloroethylene	3.40	0.05	ug/g	ND	85.1	60-130			
cis-1,2-Dichloroethylene	3.40	0.05	ug/g	ND	84.7	60-130			
trans-1,2-Dichloroethylene	3.41	0.05	ug/g	ND	84.8	60-130			
1,2-Dichloropropane	3.49	0.05	ug/g	ND	87.2	60-130			
cis-1,3-Dichloropropylene	3.25	0.05	ug/g	ND	81.2	60-130			
trans-1,3-Dichloropropylene	3.23	0.05	ug/g	ND	80.4	60-130			
Ethylbenzene	3.68	0.05	ug/g	ND	91.7	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	3.36	0.05	ug/g	ND	83.5	60-130			
Hexane	4.13	0.05	ug/g	ND	103	60-130			
Methyl Ethyl Ketone (2-Butanone)	9.24	0.50	ug/g	ND	90.3	50-140			
Methyl Isobutyl Ketone	8.94	0.50	ug/g	ND	91.6	50-140			
Methyl tert-butyl ether	9.50	0.05	ug/g	ND	95.0	50-140			
Methylene Chloride	3.46	0.05	ug/g	ND	86.0	60-130			
Styrene	3.59	0.05	ug/g	ND	88.8	60-130			
1,1,1,2-Tetrachloroethane	3.54	0.05	ug/g	ND	88.4	60-130			

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,2,2-Tetrachloroethane	3.28	0.05	ug/g	ND	81.5	60-130			
Tetrachloroethylene	3.61	0.05	ug/g	ND	89.8	60-130			
Toluene	3.85	0.05	ug/g	ND	96.4	60-130			
1,1,1-Trichloroethane	3.18	0.05	ug/g	ND	79.5	60-130			
1,1,2-Trichloroethane	3.50	0.05	ug/g	ND	86.9	60-130			
Trichloroethylene	3.61	0.05	ug/g	ND	89.8	60-130			
Trichlorofluoromethane	3.88	0.05	ug/g	ND	97.0	50-140			
Vinyl chloride	4.02	0.02	ug/g	ND	100	50-140			
m,p-Xylenes	7.23	0.05	ug/g	ND	90.1	60-130			
o-Xylene	3.67	0.05	ug/g	ND	91.4	60-130			
Surrogate: 4-Bromofluorobenzene	7.71		ug/g		96.4	50-140			
Surrogate: Dibromofluoromethane	6.99		ug/g		87.4	50-140			
Surrogate: Toluene-d8	7.93		ug/g		99.1	50-140			

Certificate of Analysis

Report Date: 13-Dec-2021

Client: Terrapex Environmental Ltd. (Toronto)

Order Date: 26-Nov-2021

Client PO:

Project Description: CT2694.03

Qualifier Notes:**QC Qualifiers :**

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 unless otherwise noted.

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.

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.



Project Ref: CT26A4.03
 Quote #: S.D.
 PO #: _____
 Email: s.sutherland@terrapex.com

Client Name: Terrapex Environmental Ltd
 Contact Name: Sara Sutherland
 Address: 90 Scarsdale Rd, Toronto, ON M3B 2R7
 Telephone: 416-529-9215

Page 1 of 1
 Turnaround Time
 1 day
 3 day
 Regular
 Date Required: _____

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

Sample ID/Location Name	Matrix	# of Containers	Sample Taken	
			Date	Time
1 TCLP-1	S	4	Nov 25, 2021	5:00 PM X
2				
3				
4				
5				
6				
7				
8				
9				
10				

Regulation 153/04
 Table 1: Res/Pack Med/Fine REG 558 PVIQD
 Table 2: Inf/Comm Coarse CCVE MSA
 Table 3: Agr/Other SU - Silt SU - Storm
 Table _____
 For RSC: Yes No Other: _____

Other Regulation: _____
 Received by Driver/Depot: [Signature]
 Received at lab: AM
 Date/Time: 2011/21 10:00
 Temperature: 5.9 °C
 Date/Time: 11:13 AM Nov 26, 2021
 Temperature: 6.6 °C
 Verified By: BB
 Date/Time: 2011/20 10:10 AM
 pH/FecCol: By: _____

APPENDIX VI
FILL MANAGEMENT REPORT LETTER



May 26, 2022
CT2694.03

The Brock Zents Partnership
c/o Evans Planning Inc.
8481 Keele Street, Unit 12
Vaughan, Ontario
L4K 1Z7

Attention: Mr. Adam Layton

Email: alayton@evansplanning.com

**Re: Fill Pile Management Report Letter
2660 to 2680 Brock Road, Pickering, Ontario**

Dear Mr. Layton:

Terrapex Environmental Ltd. (Terrapex) has prepared this letter to document fill pile management activities conducted between October 4, 2021 and January 28, 2022 at the properties 2660, 2670, 2680 Brock Road situated at the southwest corner of the intersection of Zents Drive and Brock Road in Pickering, Ontario (the "Site"). The Site location is shown on Figure 1.

The purpose of the fill pile management program was to assess the quality of soil in fill piles located in different portions of the Site and document the subsequent removal of impacted fill material.

BACKGROUND

On October 4 and 5, 2021, it was observed during Terrapex's Phase One Environmental Site Assessment (ESA) site reconnaissance that several piles of fill material and inert construction debris were located on-site, primarily near the residence driveways. The approximate locations of the fill piles are shown on Figure 2. The Phase One ESA is documented under separate cover.

Between October 4 and November 25, 2021, Terrapex conducted a Phase Two ESA as part of the future development of the Site. The investigation consisted of drilling six boreholes (BH201, BH202, MW203, BH204, BH205, and MW206) and hand auguring at 15 locations (HA101 and HA102, HA201 to HA208, and HA301 to HA305) to submit representative soil samples for chemical analysis of various metal and inorganic parameters, polyaromatic hydrocarbons (PAHs), BTEX (collectively benzene, toluene, ethylbenzene, and xylenes), petroleum hydrocarbon (PHC) fractions F1 to F4 (PHCs F1-F4), and volatile organic compounds (VOCs). Samples from hand

auger locations HA205 to HA208 were not analyzed. The Phase Two ESA is documented under separate cover.

The Phase Two ESA investigation identified exceedances of Table 2 site condition standards (SCS) for the metal Nickel, the regulated parameter Boron (hot water soluble), and PAH parameters Benzo(a)pyrene, Dibenzo[a h]anthracene, Fluoranthene, and Indeno[1 2 3-cd]pyrene at several locations where fill piles were present. Though not all fill piles were analyzed, it was conservatively assumed that similar chemical conditions were present at all locations, as the observed material comprising the fill piles was similar.

This report documents the fill pile management activities conducted on the Site between October 2021 and January 2022.

SELECTION OF SITE CONDITION STANDARDS

Generic Ministry of the Environment, Conservation and Parks (MECP) Site Condition Standards for evaluating laboratory analytical results were selected from the April 15, 2011 *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (MOE, 2011) document on the basis of the criteria specified in O. Reg. 153/04.

The Site-specific details which influenced the soil standards selection are summarized below:

- the Site is not within or adjacent to an area of natural significance as defined within Section 1 (1) of O. Reg. 153/04, and do not include land within 30 m of an area of natural significance;
- the pH determined for “surface” soil samples (representative of depths not exceeding 1.5 m below ground surface, excluding any surface treatment) analysed as part of the Phase Two ESA ranged from 7.20 to 7.78, which is between the prescribed values of 5 to 9 for the application of generic Site Condition Standards;
- the pH determined for “subsurface” soil samples (representative of depths greater than 1.5 m below ground surface, excluding any surface treatment) analysed as part of the Phase Two ESA ranged from 7.65 to 7.73, which is between the prescribed values of 5 to 11 for the application of generic Site Condition Standards;
- more than 2 m of overburden was observed over at least two-thirds of the area of the Site;
- the Site does include a waterbody, and is not within 30 m of a waterbody;
- stratified site conditions will not be used when evaluating laboratory analytical results;
- current use of the Site is considered to be residential and commercial;
- proposed future use of the Site is expected to be residential;

- potable water at other properties located (in whole or in part) within 250 m of the Site, may be supplied by water supply wells used or intended for use as a source of water for human consumption or for agriculture;
- the Site is not located in an area designated in a municipal Official Plan as a well-head protection area, or another designation by the municipality intended for the protection of groundwater; and,
- soil texture at the Site has been classified as “coarse-textured” based on the result of grain size analysis conducted as part of Terrapex’s geotechnical investigation on nine representative soil samples (BH1-S7, BH3-S7, BH4-S7A, BH4-S9, BH5-S9, BH6-S3, BH6-6, BH6-S9, and BH6-S12).

Based on the above, Full Depth Generic Site Condition Standards applicable to residential, parkland, or institutional property use for coarse textured soils that are listed in Table 2 of the April 15, 2011 MECP *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* document (hereafter referenced as the Table 2 SCSs) are considered appropriate for evaluating laboratory analytical results for the Site.

FILL SOIL MANAGEMENT AND SAMPLING

The fill pile management activities were conducted by contractor Pro Star Excavating and Grading Ltd. (Pro Star), an excavation contractor retained by the client. Terrapex was on-Site fulltime to monitor and document the fill pile management activities.

From October 2021 to January 2022, Terrapex was retained to complete a Phase Two ESA, which included a sampling program to assess the quality of the fill piles observed on-site, and the underlying material following the subsequent fill pile removal. Samples were collected following Terrapex’s Standard Operating Procedures (SOPs) using various methods, including borehole drilling, hand augering, and grab sampling. Drilling services were provided by Pontil Drilling Ltd. (Pontil).

All sample locations were recorded using either a hand-held GPS navigation system or Terrapex’s Topcon GNSS positioning survey system. The sampling locations are summarised in the table below with sample locations shown on Figures 2 through 4C.

A composite soil sample (TCLP-1) comprised of fill material was submitted to the laboratory to determine the suitability of the soil for disposal to the Green For Life (GFL) waste management facility located in Pickering. The results indicated that the results met O.Reg. 347 Schedule 4 leachate quality criteria and were therefore suitable for future disposal as solid non-hazardous waste. The TCLP analytical results are included in Appendix I.

On January 28, 2022, Pro Star was on-site to conduct the soil management activities, by removing the eight fill piles previously identified as poor quality and not suitable to remain on-site. Based

on documentation provided by the client, 194.23 tonnes of fill material was transported to the GFL facility in Pickering, Ontario. Copies of the weigh bills are enclosed in Appendix II.

Confirmatory samples (GS401 to GS408) were also collected on January 28, 2022 following the removal of each fill pile (FP1 to FP8). Soil samples were submitted for chemical analysis of metal, and PAH parameters to confirm no remaining impacts. GS403 was also analysed for boron (hot water soluble) to confirm that the former boron (hot water soluble) impact identified at BH201 sample 1 no longer remained.

ANALYTICAL RESULTS

Soil samples selected for chemical analysis throughout the management and sampling activities were submitted to Paracel Laboratories Ltd. (Paracel) located in Ottawa and Hamilton, Ontario. Paracel is accredited by CALA to International Standard ISO/IEC 17025:2005, *General Requirement for the Competence of Testing and Calibration Laboratories*. under contract with Terrapex:

The soil analytical results for metal and inorganic parameters, PAHs, BTEX, PHCs, and VOCs, along with the selected Table 2 SCS, are summarized in Tables 1 to 4, respectively. Copies of the laboratory Certificates of Analysis are included in Appendix I.

As shown in the tables, concentrations of all soil parameters analyzed for the underlying soil remaining from beneath the removed fill piles at the Site were below the Table 2 SCS and samples that had concentrations exceeding the Table 2 SCSs were subsequently removed (as indicated by the grey shading in Tables 1 through 4).

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

To mitigate cross-contamination, soil samples were collected using new nitrile gloves prior to handling each sample. Samples were placed directly into laboratory-provided jars and shipped with ice in a cooler under chain of custody to an accredited laboratory.

In addition to the laboratory's internal QA/QC, Terrapex submitted several blind field duplicates. As shown in the analytical summary tables, the quantitative correlation for concentrations of all parameters in soil samples and their duplicates were acceptable.

Quality assurance samples involving comparisons of 'duplicate' analysis are evaluated on the basis of Relative Percent Difference (RPD). RPD provides a measure of the ability to provide consistent results on successive analyses, but does not necessarily relate to the ability to provide results that are representative of the actual concentration of the target parameter (e.g., the expected result when comparing against a known standard).

RPD is calculated as follows:

$$RPD = \left| \frac{result_1 - result_2}{\frac{1}{2} \times (result_1 + result_2)} \right| \times 100\%$$

Paracel's Quality Assurance/Quality Control (QA/QC) program consisted of the analysis of laboratory duplicates, method blank, matrix spike and surrogate percent recoveries, as appropriate for the particular analysis protocol. In general, a review of the quality assurance report attached to the laboratory certificates of analysis did not indicate any concerns that would adversely affect the overall interpretation of the results. Discrepancies in RDL's can be attributed to the heterogeneous nature of the fill materials that were sampled.

Based on the above, QA/QC results for the field program are considered to be acceptable.

SUMMARY AND CONCLUSIONS

The fill pile management activities were overseen by Terrapex between October 2021 and January 2022. A total of 194.23 tonnes of fill was transported to the GFL facility in Pickering, Ontario. Based on the analytical results, the soil remaining on-site meets the Table 2 SCS.

CLOSURE

This report has been completed in accordance with the terms of reference for this project as agreed upon by The Brock Zents Partnership (the Client) and Terrapex Environmental Ltd. (Terrapex) and generally accepted engineering or environmental consulting practices in this area.

The reported information is believed to provide a reasonable representation of the general environmental conditions at the site; however, studies of this nature have inherent limitations. The data were collected at specific locations and subsurface conditions may vary at other locations, or with the passage of time. The assessment was also limited to a study of those chemical parameters specifically addressed in this report.

Terrapex has relied in good faith on information and representations obtained from the Client and third parties and, except where specifically identified, has made no attempt to verify such information. Terrapex accepts no responsibility for any deficiency or inaccuracy in this report as a result of any misstatement, omission, misrepresentation, or fraudulent act of those providing information. Terrapex shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time of the study.

This report has been prepared for the sole use of The Brock Zents Partnership. Terrapex accepts no liability for claims arising from the use of this report, or from actions taken or decisions made as a result of this report, by parties other than The Brock Zents Partnership.

We trust this letter meets your requirements. If you have any questions or comments, please contact the undersigned.

Sincerely,

TERRAPEX ENVIRONMENTAL LTD.



Sara Sutherland, CET, EP
Project Manager

Steven Ruminsky, P.Eng., P.Geo., QP_{ESA}
Senior Reviewer

*Attach. Figure 1 – Site Location
Figure 2 – General Site Layout
Figure 3A – Soil Results – Metals
Figure 3B – Soil Results – Boron (HWS)
Figure 3C – Soil Results – PAHs
Figure 4A – Post Fill Pile Removal Soil Results – Metals
Figure 4B – Post Fill Pile Removal Soil Results – Boron (HWS)
Figure 4C – Post Fill Pile Removal Soil Results – PAHs
Analytical Tables 1 to 4
Appendix I - Certificates of Analysis
Appendix II – Weight Tickets*

List of Figures

Figure 1 – Site Location

Figure 2 – General Site Layout

Figure 3A – Soil Analytical Results – Metals

Figure 3B – Soil Analytical Results – Boron (Hot Water Soluble)

Figure 3C – Soil Analytical Results - PAHs

Figure 4A – Soil Analytical Results (Post Fill Pile Removal) – Metals

Figure 4B – Soil Analytical Results (Post Fill Pile Removal) – Boron (Hot Water Soluble)

Figure 4C – Soil Analytical Results (Post Fill Pile Removal) - PAHs

List of Tables

Table 1 – Soil Analytical Results – Metals and Inorganics

Table 2 – Soil Analytical Results – PAHs

Table 3 – Soil Analytical Results – BTEX & PHCs F1-F4

Table 4 – Soil Analytical Results - VOCs

List of Appendices

Appendix I – Certificates of Analysis

Appendix II – Weigh Tickets

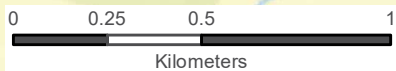
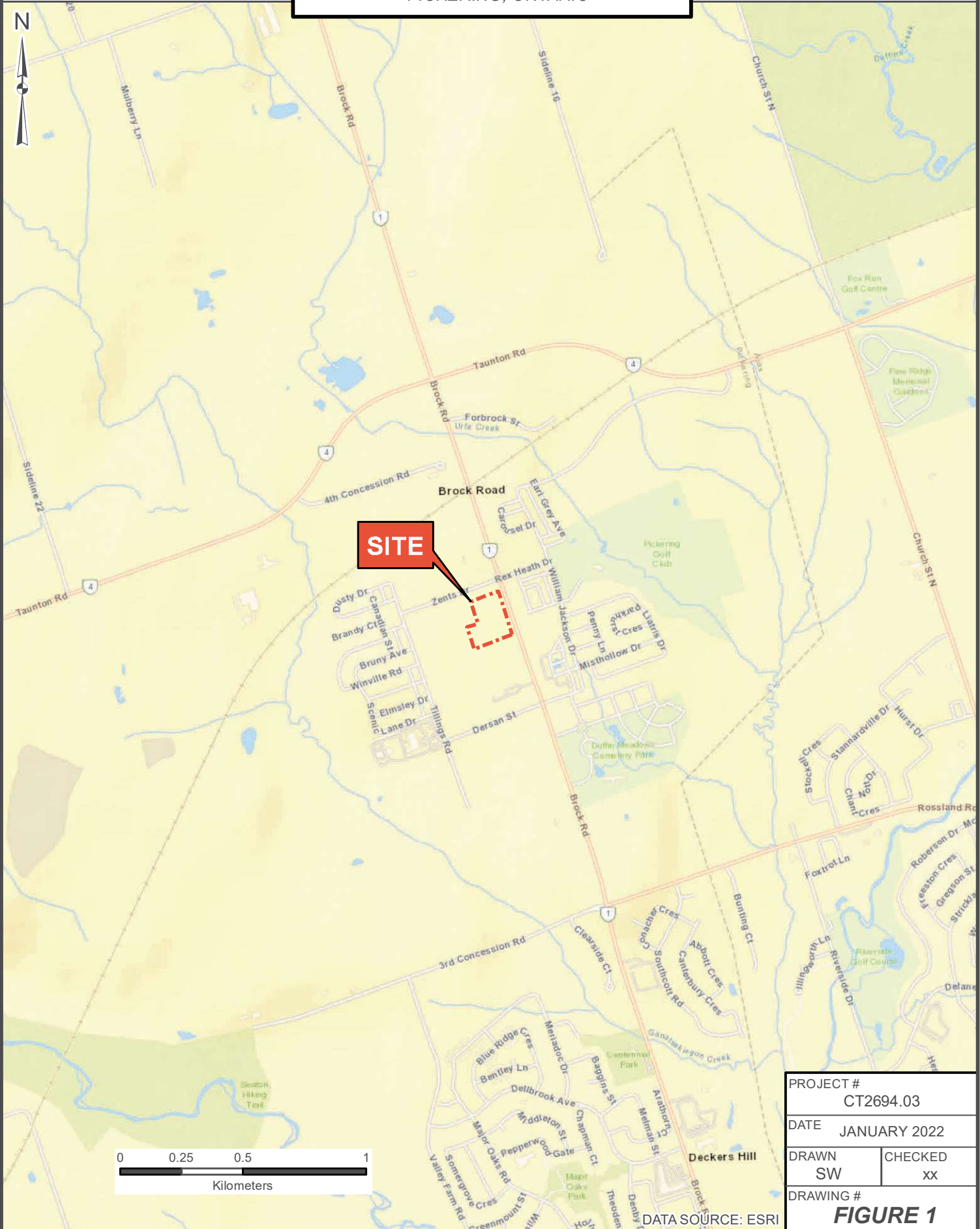
FIGURES

SITE LOCATION

2660-2680 BROCK ROAD
PICKERING, ONTARIO

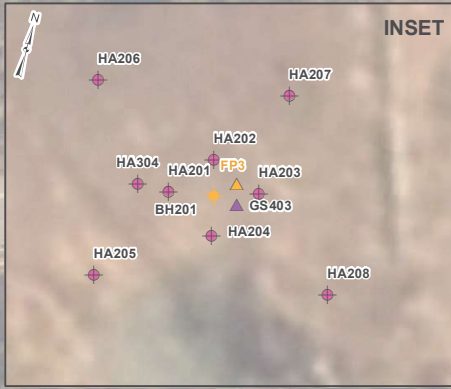
CLIENT

THE BROCK ZENTS
PARTNERSHIP

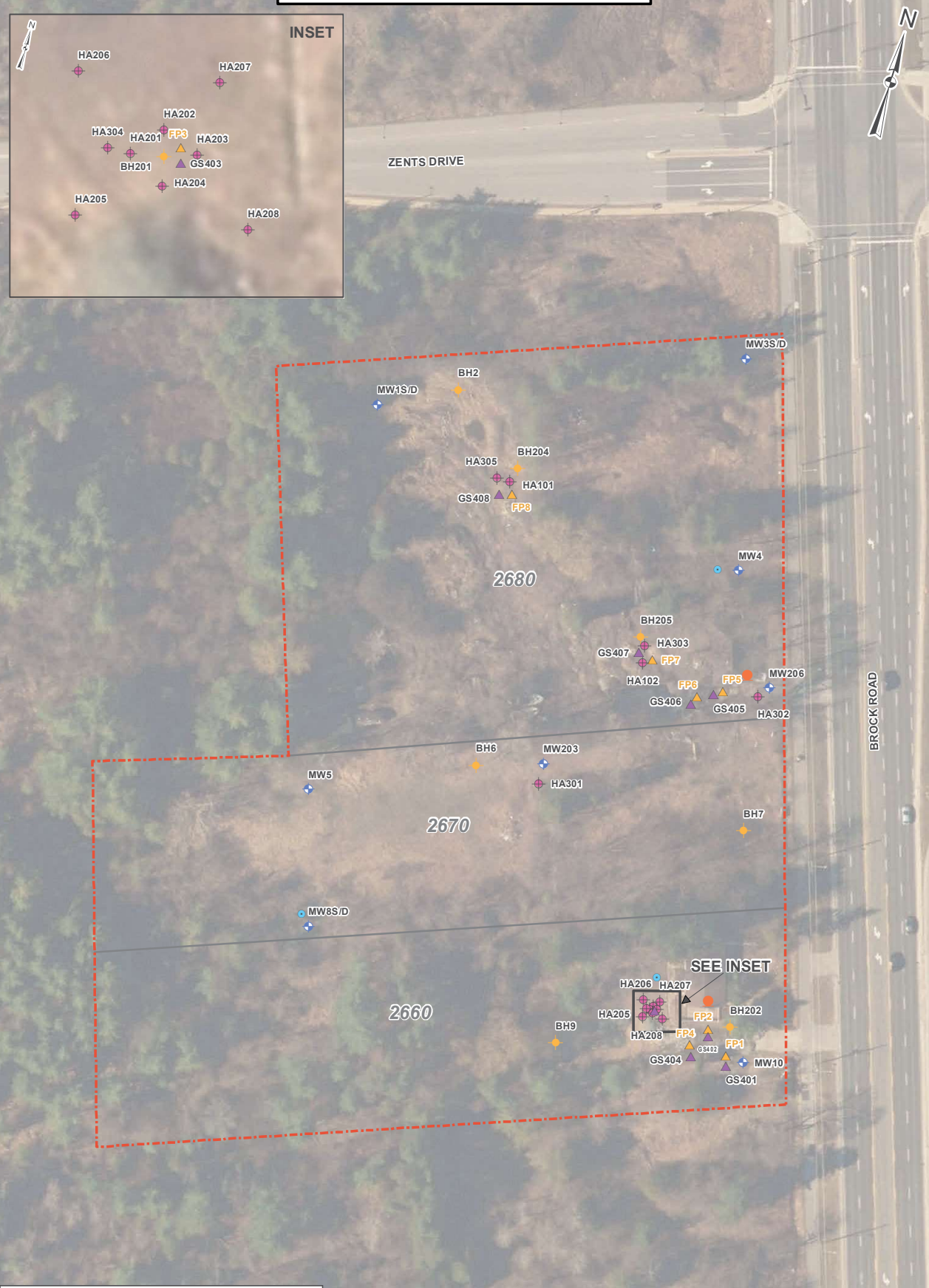


PROJECT #		CT2694.03	
DATE		JANUARY 2022	
DRAWN	SW	CHECKED	XX
DRAWING #		FIGURE 1	

DATA SOURCE: ESRI



I:\eroll\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd Pickering\MXD\Phase II\ESACT2694_03_FIG2_GENERAL SITE LAYOUT.mxd



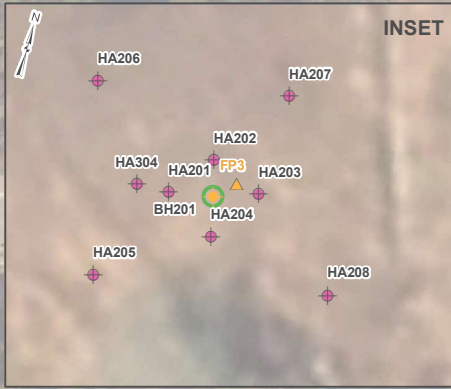
LEGEND

SITE BOUNDARY	BOREHOLE
FUEL STORAGE TANKS	HAND AUGER
PARCELS	MONITORING WELL
SAMPLE LOCATIONS	GRAB SAMPLE
FILL PILE	WATER WELL

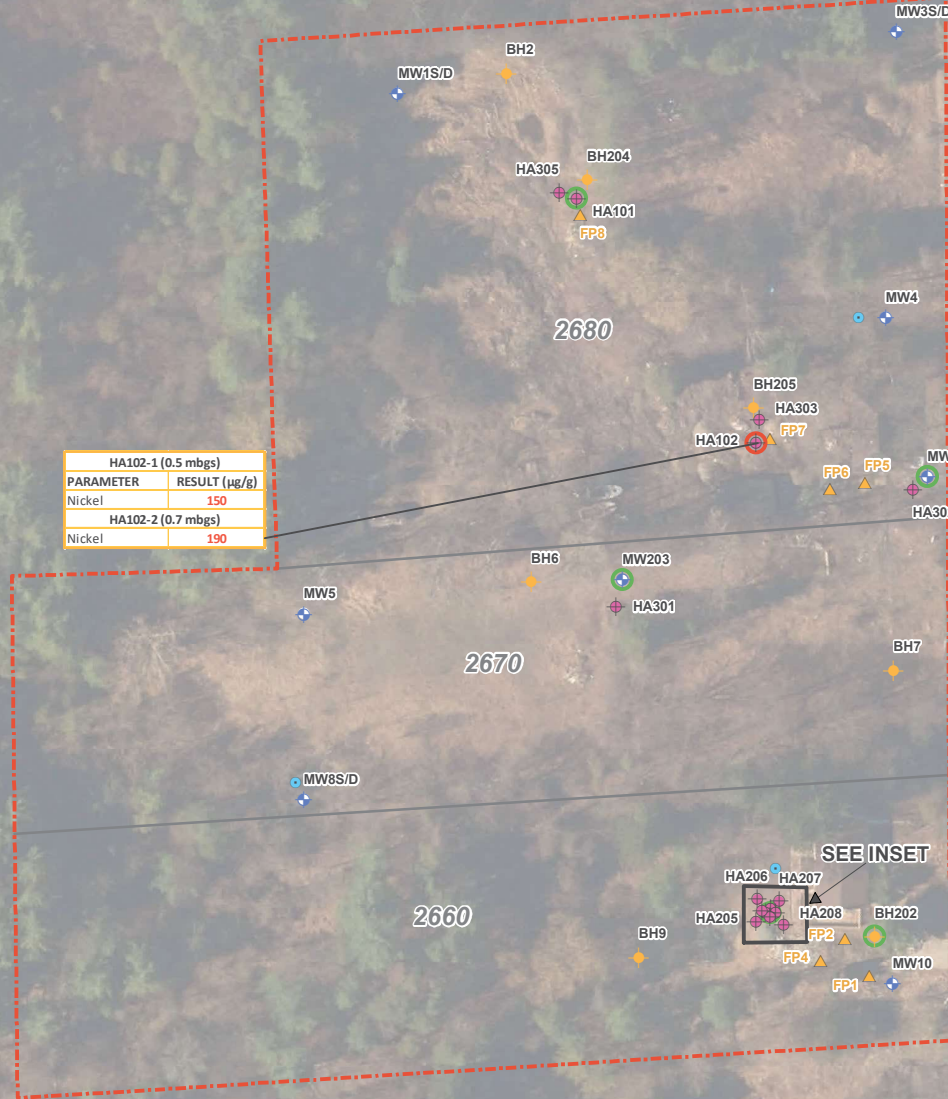


PROJECT #		CT2694.03	
DATE		MARCH 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 2	

DATA SOURCE: VUMAP



swilliams W:\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd. Pickering\W04D\Phase II ESA\Post Fill File Removal\CT2694\03 FIG3A SOIL RESULTS - METALS.mxd



LEGEND

- SITE BOUNDARY
- PARCELS
- SAMPLE LOCATIONS**
- FILL PILE
- BOREHOLE
- HAND AUGER
- MONITORING WELL
- WATER WELL

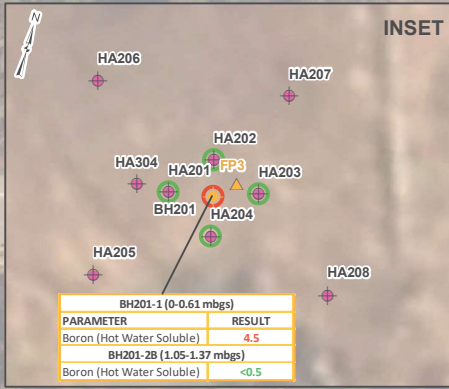
- ANALYSIS INFORMATION**
- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
 - EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Nickel	100



PROJECT #		CT2694.03
DATE		APRIL 2022
DRAWN	CHECKED	
JS	SS	
DRAWING #		FIGURE 3A

DATA SOURCE: VUMAP



soilbans W:\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd. Pickering\W\MD\Phase II ESA\Post Fill File Removal\CT2694\03 FIG.3B SOIL RESULTS - BORON.mxd



LEGEND

- SITE BOUNDARY
- PARCELS
- ▲ FILL PILE
- ◆ BOREHOLE
- HAND AUGER
- + MONITORING WELL
- WATER WELL

ANALYSIS INFORMATION

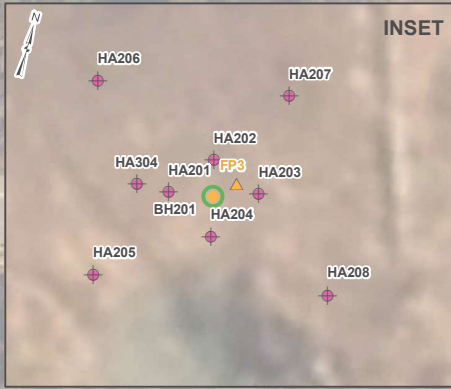
- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Boron (Hot Water Soluble)	1.5

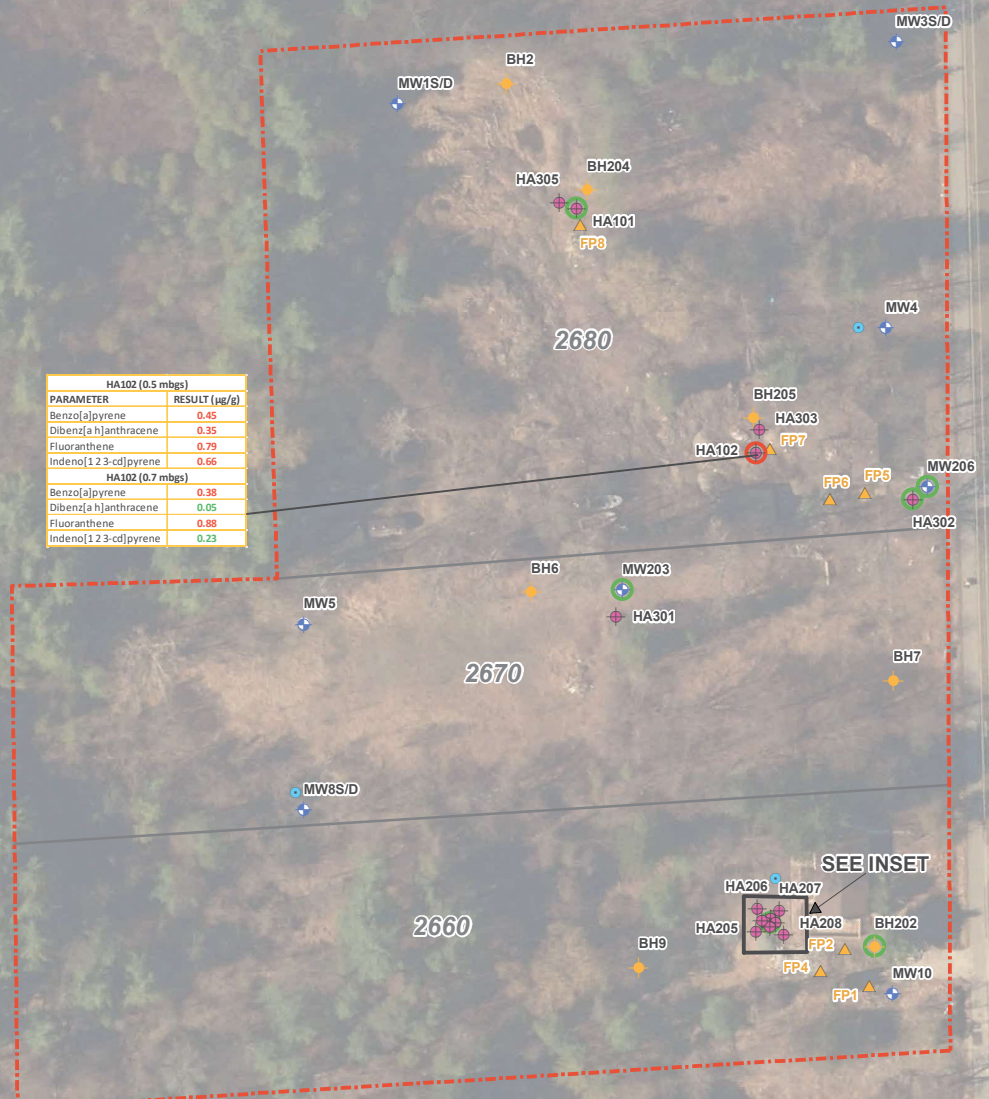


PROJECT #		CT2694.03
DATE		APRIL 2022
DRAWN	CHECKED	
JS	SS	
DRAWING #		FIGURE 3B

DATA SOURCE: VUMAP

2660-2680 BROCK ROAD
PICKERING, ONTARIO


s:\billiams W:\PROJECTS\TerraNova\CT2694\03_2660-2680 Brock Rd, Pickering\W04D\Phase II ESA\Post-Fill\PAHS Results - PAHS.rxd



HA102 (0.5 mbgs)	
PARAMETER	RESULT (µg/g)
Benzo[a]pyrene	0.45
Dibenzo[a,h]anthracene	0.35
Fluoranthene	0.79
Indeno[1,2,3-cd]pyrene	0.66
HA102 (0.7 mbgs)	
Benzo[a]pyrene	0.38
Dibenzo[a,h]anthracene	0.05
Fluoranthene	0.88
Indeno[1,2,3-cd]pyrene	0.23

LEGEND

- SITE BOUNDARY
- PARCELS
- SAMPLE LOCATIONS**
- FILL PILE
- BOREHOLE
- HAND AUGER
- MONITORING WELL
- WATER WELL

ANALYSIS INFORMATION

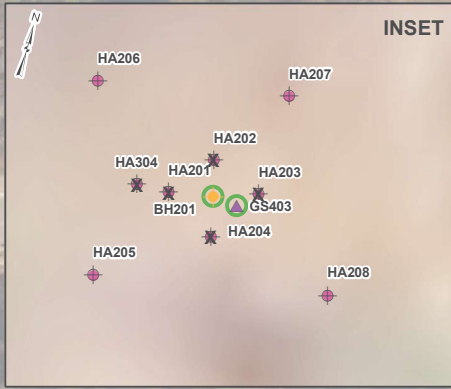
- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Benzo[a]pyrene	0.3
Dibenzo[a,h]anthracene	0.1
Fluoranthene	0.69
Indeno[1,2,3-cd]pyrene	0.38



PROJECT #		CT2694.03	
DATE		APRIL 2022	
DRAWN	JS	CHECKED	SS
DRAWING #		FIGURE 3C	

DATA SOURCE: VUMAP



swilliams W:\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd, Pickering\MOXD\Phase II ESA\Post Fill Pile Removal\CT2694\03_FIG4A_SOIL_RESULTS - METALS.mxd

HA102-1 (0.5 mbgs)	
PARAMETER	RESULT (µg/g)
Nickel	150
HA102-2 (0.7 mbgs)	
Nickel	190

LEGEND

- SITE BOUNDARY
- PARCELS
- SAMPLE LOCATIONS**
- FILL PILE
- BOREHOLE
- HAND AUGER
- MONITORING WELL
- GRAB SAMPLE
- WATER WELL

ANALYSIS INFORMATION

- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS

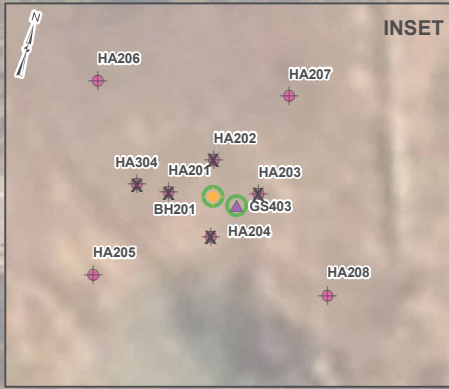
PARAMETER	MECP TABLE 2 SCS
Nickel	100

SAMPLE REMOVED

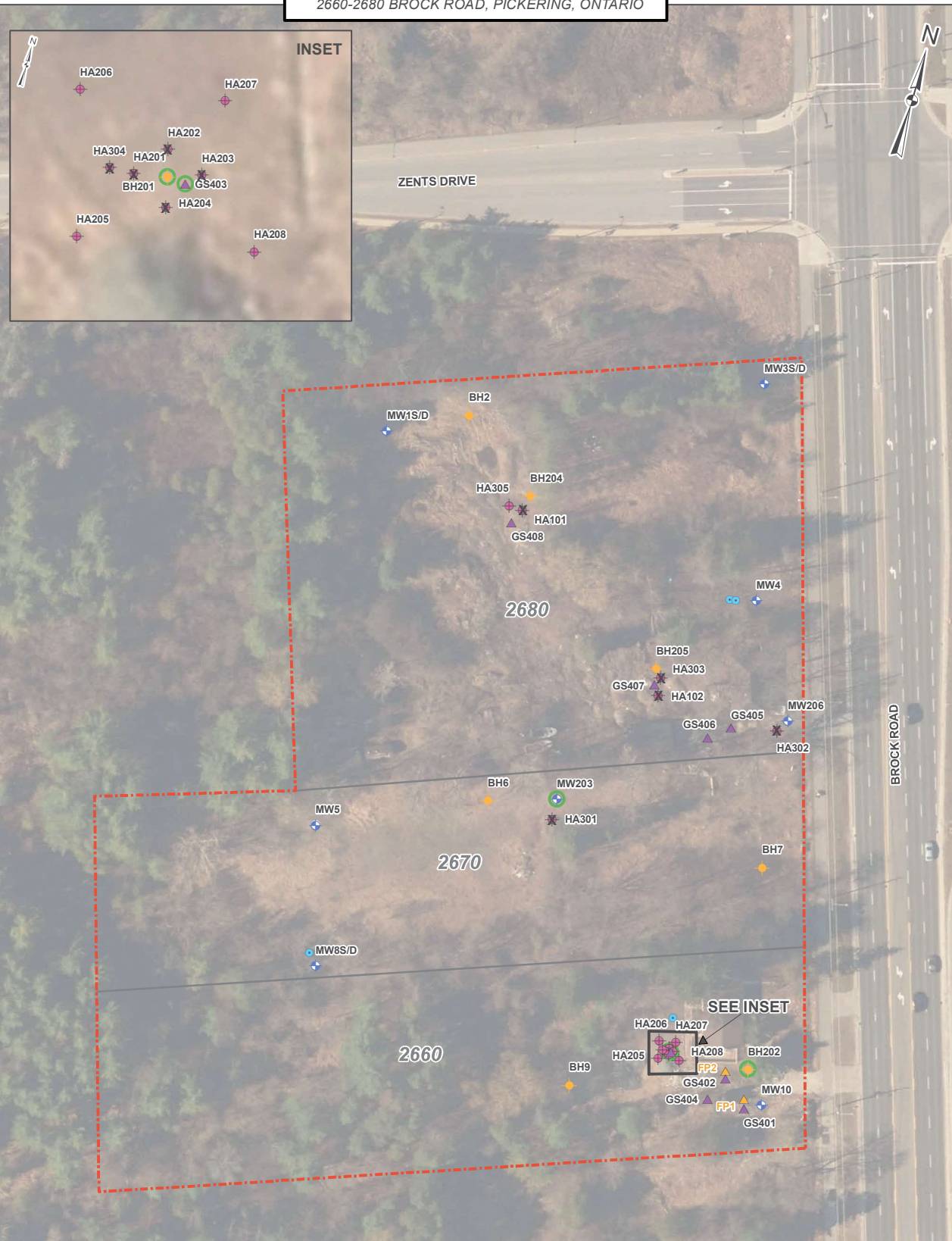


PROJECT #		CT2694.03	
DATE		MAY 2022	
DRAWN	JS/SW	CHECKED	SS
DRAWING #		FIGURE 4A	

DATA SOURCE: VUMAP



soillabs W:\PROJECTS\Toronto\CT2694\03_2660-2680 Brock Rd, Pickering\MOXD\Phase II ESA\Post Fill Pile Removal\CT2694\03_FIG4B_SOIL_RESULTS - BORON.mxd



LEGEND

- SITE BOUNDARY
- PARCELS
- ▲ FILL PILE
- ◆ BOREHOLE
- ◆ HAND AUGER
- ◆ MONITORING WELL
- ▲ GRAB SAMPLE
- WATER WELL

ANALYSIS INFORMATIONS

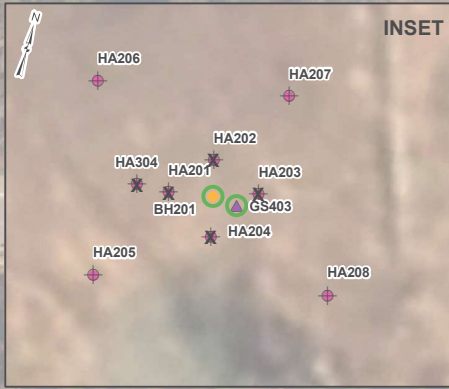
- LESS THAN OR EQUAL TO MECP TABLE 2 SCS
- EXCEEDS MECP TABLE 2 SCS
- X SAMPLE REMOVED

PARAMETER	MECP TABLE 2 SCS
Boron (Hot Water Soluble)	1.5



PROJECT #		CT2694.03
DATE		MAY 2022
DRAWN	JS/SW	CHECKED
		SS
DRAWING #		FIGURE 4B

DATA SOURCE: VUMAP



HA102 (0.5 mbgs)	
PARAMETER	RESULT (µg/g)
Benzo[a]pyrene	0.45
Dibenz[a,h]anthracene	0.35
Fluoranthene	0.79
Indeno[1,2,3-cd]pyrene	0.66
HA102 (0.7 mbgs)	
Benzo[a]pyrene	0.38
Dibenz[a,h]anthracene	0.05
Fluoranthene	0.88
Indeno[1,2,3-cd]pyrene	0.23

LEGEND

SITE BOUNDARY

PARCELS

SAMPLE LOCATIONS

FILL PILE

BOREHOLE

HAND AUGER

MONITORING WELL

GRAB SAMPLE

WATER WELL

ANALYSIS INFORMATION

LESS THAN OR EQUAL TO MECP TABLE 2 SCS

EXCEEDS MECP TABLE 2 SCS

PARAMETER	MECP TABLE 2 SCS
Benzo[a]pyrene	0.3
Dibenz[a,h]anthracene	0.1
Fluoranthene	0.69
Indeno[1,2,3-cd]pyrene	0.38

SAMPLE REMOVED



DATA SOURCE: VUMAP

 PROJECT #
CT2694.03

 DATE
MAY 2022

DRAWN JS/SW	CHECKED SS
----------------	---------------

DRAWING #

FIGURE 4C

TABLES

TABLE 1 SOIL ANALYTICAL RESULTS
2660-2680 Brock Road, Pickering, ON

Metals and Inorganics

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH201-1	BH201-2B	BH202-1	BH202-6	MW203-2	BH2006 Field Duplicate of BH203-2	MW203-7	MW206-1B
Sample Depth	m bg	-	0.0-0.61	1.05-1.37	0.0-0.61	3.81-4.42	0.76-1.37	0.76-1.37	4.57-5.18	0.30-0.61
Sampling Date	dd-mmm-yy	-	04-Oct-21	04-Oct-21	04-Oct-21	04-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488	2141488	2141488	2141488
pH	pH Units	NV	7.20	-	7.23	7.65	7.57	7.78	7.73	7.38
Antimony	ug/g	7.5	<1.0	-	<1.0	-	<1.0	<1.0	-	<1.0
Arsenic	ug/g	18	5.2	-	2.4	-	1.5	<1.0	-	2.2
Barium	ug/g	390	50.3	-	46.2	-	41.7	11.8	-	48.8
Beryllium	ug/g	4.0	<0.5	-	<0.5	-	<0.5	<0.5	-	<0.5
Boron (total)	ug/g	120	6.0	-	5.5	-	6.1	<5.0	-	5.2
Boron (Hot Water Soluble) ¹	-	4.5	<0.5	<0.5	<0.5	-	1.0	1.3	-	<0.5
Cadmium	ug/g	1.2	<0.5	-	<0.5	-	<0.5	<0.5	-	<0.5
Chromium Total	ug/g	160	13.9	-	12.9	-	10.8	<5.0	-	12.8
Chromium VI	ug/g	8.0	<0.2	-	<0.2	-	<0.2	<0.2	-	<0.2
Cobalt	ug/g	22	4.9	-	4.7	-	3.9	1.3	-	4.3
Copper	ug/g	140	11.0	-	10.0	-	7.7	<5.0	-	6.8
Cyanide (CN-)	ug/g	0.051	<0.03	-	<0.03	-	<0.03	<0.03	-	<0.03
Lead	ug/g	120	9.0	-	8.8	-	2.8	1.5	-	8.2
Mercury	ug/g	0.27	<0.1	-	<0.1	-	<0.1	<0.1	-	<0.1
Methyl Mercury ²	-	0.0084	-	-	-	-	-	-	-	-
Molybdenum	ug/g	6.9	<1.0	-	<1.0	-	<1.0	<1.0	-	<1.0
Nickel	ug/g	100	9.8	-	9.7	-	7.3	<5.0	-	7.9
Selenium	ug/g	2.4	<1.0	-	<1.0	-	<1.0	<1.0	-	<1.0
Silver	ug/g	20	<0.3	-	<0.3	-	<0.3	<0.3	-	<0.3
Thallium	ug/g	1.0	<1.0	-	<1.0	-	<1.0	<1.0	-	<1.0
Uranium	ug/g	23	<1.0	-	<1.0	-	<1.0	<1.0	-	<1.0
Vanadium	ug/g	86	26.4	-	24.7	-	20.4	<10.0	-	24.8
Zinc	ug/g	340	42.4	-	36.8	-	<20.0	<20.0	-	31.9
Electrical Conductivity	uS/cm	0.7	0.156	-	0.197	-	0.132	0.086	-	0.249
Sodium Adsorption Ratio	-	5.0	0.26	-	0.21	-	0.42	0.12	-	1.70

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ Hot water soluble boron applies to surface soils (<1.5 m bg).

² Analysis for methyl mercury only applies when mercury standard is exceeded.

TABLE 1 SOIL ANALYTICAL RESULTS

2660-2680 Brock Road, Pickering, ON

Metals and Inorganics

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA101-1 18-Oct-21 27-Oct-21 2143465	HA102-1 18-Oct-21 27-Oct-21 2143465	HA102-2 18-Oct-21 27-Oct-21 2143465	HA201-1 27-Oct-21 2-Nov-21 2144624	HA202-1 27-Oct-21 2-Nov-21 2144624	HA203-1 27-Oct-21 2-Nov-21 2144624	HA204-1 27-Oct-21 2-Nov-21 2144624	GS401-1 28-Jan-22 4/7-Feb-22 2206182
Sample Depth	m bg	-	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.3
Sampling Date	dd-mmm-yy	-	18-Oct-21	18-Oct-21	18-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	27-Oct-21	27-Oct-21	27-Oct-21	2-Nov-21	2-Nov-21	2-Nov-21	2-Nov-21	4/7-Feb-22
Certificate of Analysis No.	-	-	2143465	2143465	2143465	2144624	2144624	2144624	2144624	2206182
pH	pH Units	NV	7.38	7.66	-	-	-	-	-	-
Antimony	ug/g	7.5	<1.0	<1.0	<1.0	-	-	-	-	<1.0
Arsenic	ug/g	18	2.2	2.6	3.7	-	-	-	-	4.8
Barium	ug/g	390	54.3	34.1	43.6	-	-	-	-	55.4
Beryllium	ug/g	4.0	<0.5	<0.5	<0.5	-	-	-	-	<0.5
Boron (total)	ug/g	120	5.3	5.6	8.0	-	-	-	-	5.9
Boron (Hot Water Soluble) ¹	-	1.5	0.7	0.7	-	1.1	1.5	1.2	1.2	-
Cadmium	ug/g	1.2	<0.5	<0.5	0.7	-	-	-	-	<0.5
Chromium Total	ug/g	160	11.7	13.3	19.3	-	-	-	-	16.2
Chromium VI	ug/g	8.0	<0.2	<0.2	-	-	-	-	-	-
Cobalt	ug/g	22	4.0	3.5	5.4	-	-	-	-	5.9
Copper	ug/g	140	9.4	27.0	43.4	-	-	-	-	14.6
Cyanide (CN-)	ug/g	0.051	<0.03	<0.03	-	-	-	-	-	-
Lead	ug/g	120	9.8	29.4	44.4	-	-	-	-	16.9
Mercury	ug/g	0.27	<0.1	<0.1	-	-	-	-	-	-
Methyl Mercury ²	-	0.0084	-	-	-	-	-	-	-	-
Molybdenum	ug/g	6.9	<1.0	<1.0	1.2	-	-	-	-	<1.0
Nickel	ug/g	100	9.3	150	190	-	-	-	-	12.4
Selenium	ug/g	2.4	<1.0	<1.0	1.3	-	-	-	-	1.0
Silver	ug/g	20	<0.3	0.3	0.6	-	-	-	-	<0.3
Thallium	ug/g	1.0	<1.0	<1.0	<1.0	-	-	-	-	<1.0
Uranium	ug/g	23	<1.0	<1.0	<1.0	-	-	-	-	<1.0
Vanadium	ug/g	86	18.4	15.3	19.3	-	-	-	-	32.0
Zinc	ug/g	340	34.6	169	231	-	-	-	-	52.7
Electrical Conductivity	uS/cm	0.7	0.260	0.131	-	-	-	-	-	-
Sodium Adsorption Ratio	-	5.0	0.39	0.09	-	-	-	-	-	-

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ Hot water soluble boron applies to surface soils (<1.5 m bg).

² Analysis for methyl mercury only applies when mercury standard is exceeded.

TABLE 1 SOIL ANALYTICAL RESULTS

2660-2680 Brock Road, Pickering, ON

Metals and Inorganics

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	GS402-2	GS403-2	GS404-2	GS405-1	GS406-1	GS407-1	GS408-1	GS4000 Field Duplicate of GS408-1
Sample Depth	m bg	-	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-
Sampling Date	dd-mmm-yy	-	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2206182	2206182	2206182	2206182	2206182	2206182	2206182	2206182
pH	pH Units	NV	-	-	-	-	-	-	-	-
Antimony	ug/g	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	ug/g	18	4.3	2.0	3.6	1.7	2.5	2.4	3.3	3.0
Barium	ug/g	390	61.7	38.6	50.7	54.8	55.4	87.0	51.9	48.0
Beryllium	ug/g	4.0	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.5
Boron (total)	ug/g	120	6.8	<5.0	7.0	<5.0	<5.0	6.2	<5.0	<5.0
Boron (Hot Water Soluble) ¹	-	1.5	-	<0.5	-	-	-	-	-	-
Cadmium	ug/g	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium Total	ug/g	160	17.9	14.5	13.9	15.9	18.6	21.2	18.4	17.9
Chromium VI	ug/g	8.0	-	-	-	-	-	-	-	-
Cobalt	ug/g	22	7.1	4.2	4.8	5.6	6.6	6.3	7.6	7.3
Copper	ug/g	140	17.2	6.2	12.2	7.1	8.9	13.8	9.6	8.6
Cyanide (CN-)	ug/g	0.051	-	-	-	-	-	-	-	-
Lead	ug/g	120	12.4	4.8	14.1	6.3	8.1	5.4	8.7	8.0
Mercury	ug/g	0.27	-	-	-	-	-	-	-	-
Methyl Mercury ²	-	0.0084	-	-	-	-	-	-	-	-
Molybdenum	ug/g	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	ug/g	100	13.9	8.0	9.8	8.2	11.0	14.8	13.2	12.5
Selenium	ug/g	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	ug/g	20	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	ug/g	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	ug/g	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	ug/g	86	35.5	28.9	28.1	36.0	38.1	35.4	37.3	36.0
Zinc	ug/g	340	53.3	32.7	39.1	62.2	45.0	28.8	31.0	29.2
Electrical Conductivity	uS/cm	0.7	-	-	-	-	-	-	-	-
Sodium Adsorption Ratio	-	5.0	-	-	-	-	-	-	-	-

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ Hot water soluble boron applies to surface soils (<1.5 m bg).

² Analysis for methyl mercury only applies when mercury standard is exceeded.

TABLE 2 SOIL ANALYTICAL RESULTS PAHS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH201-1	BH202-1	BH202-6	MW203-1B	MW203-7
Sample Depth	m bg	-	0.0-0.61	0.0-0.61	3.81-4.42	0.30-0.61	4.57-5.18
Sampling Date	dd-mmm-yy	-	04-Oct-21	04-Oct-21	04-Oct-21	05-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488
Acenaphthene	ug/g	7.9	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g	0.67	<0.02	<0.02	<0.02	<0.02	<0.02
Benz[a]anthracene	ug/g	0.50	<0.02	0.04	<0.02	<0.02	<0.02
Benzo[a]pyrene	ug/g	0.30	<0.02	0.04	<0.02	<0.02	<0.02
Benzo[b]fluoranthene	ug/g	0.78	<0.02	0.04	<0.02	<0.02	<0.02
Benzo[ghi]perylene	ug/g	6.6	<0.02	0.02	<0.02	<0.02	<0.02
Benzo[k]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	ug/g	7.0	<0.02	0.04	<0.02	<0.02	<0.02
Dibenz[a,h]anthracene	ug/g	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	ug/g	0.69	<0.02	0.08	<0.02	<0.02	<0.02
Fluorene	ug/g	62	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	<0.02	<0.02	<0.02	<0.02	<0.02
Methylnaphthalene, 2-(1-) ¹	ug/g	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g	6.2	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	ug/g	78	<0.02	0.06	<0.02	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2 SOIL ANALYTICAL RESULTS PAHS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	MW2002 Field Duplicate of MW203-7	MW206-1B	MW206-4	HA101-1	HA102-1
Sample Depth	m bg	-	4.57-5.18	0.30-0.61	2.30 - 2.90	0.5	0.5
Sampling Date	dd-mmm-yy	-	05-Oct-21	05-Oct-21	05-Oct-21	18-Oct-21	18-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2148186	2143465	2143465
Acenaphthene	ug/g	7.9	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g	0.67	<0.02	<0.02	<0.02	<0.02	0.08
Benz[a]anthracene	ug/g	0.50	<0.02	<0.02	<0.02	<0.02	0.34
Benzo[a]pyrene	ug/g	0.30	<0.02	<0.02	<0.02	<0.02	<u>0.45</u>
Benzo[b]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	0.31
Benzo[ghi]perylene	ug/g	6.6	<0.02	<0.02	<0.02	<0.02	0.54
Benzo[k]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	0.16
Chrysene	ug/g	7.0	<0.02	<0.02	<0.02	<0.02	0.31
Dibenz[a,h]anthracene	ug/g	0.10	<0.02	<0.02	<0.02	<0.02	<u>0.35</u>
Fluoranthene	ug/g	0.69	<0.02	<0.02	<0.02	<0.02	<u>0.79</u>
Fluorene	ug/g	62	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	<0.02	<0.02	<0.02	<0.02	<u>0.66</u>
Methylnaphthalene, 2-(1-) ¹	ug/g	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g	6.2	<0.02	<0.02	<0.02	<0.02	0.26
Pyrene	ug/g	78	<0.02	<0.02	<0.02	<0.02	0.48

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2 SOIL ANALYTICAL RESULTS PAHS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA102-2	HA302-D	HA333 Field Duplicate of HA302-D	GS401-1	GS402-2
Sample Depth	m bg	-	0.7	1.7	0.5	0.3	0.3
Sampling Date	dd-mmm-yy	-	18-Oct-21	25-Nov-21	25-Nov-21	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	27-Oct-21	3-Dec-21	3-Dec-21	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2143465	2149002	2149004	2206182	2206182
Acenaphthene	ug/g	7.9	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g	0.67	0.07	<0.02	<0.02	<0.02	<0.02
Benz[<i>a</i>]anthracene	ug/g	0.50	0.34	<0.02	<0.02	<0.02	<0.02
Benzo[<i>a</i>]pyrene	ug/g	0.30	0.38	<0.02	<0.02	<0.02	<0.02
Benzo[<i>b</i>]fluoranthene	ug/g	0.78	0.33	<0.02	<0.02	<0.02	<0.02
Benzo[<i>ghi</i>]perylene	ug/g	6.6	0.21	<0.02	<0.02	<0.02	<0.02
Benzo[<i>k</i>]fluoranthene	ug/g	0.78	0.17	<0.02	<0.02	<0.02	<0.02
Chrysene	ug/g	7.0	0.33	<0.02	<0.02	<0.02	<0.02
Dibenz[<i>a,h</i>]anthracene	ug/g	0.10	0.05	<0.02	<0.02	<0.02	<0.02
Fluoranthene	ug/g	0.69	0.88	<0.02	<0.02	<0.02	<0.02
Fluorene	ug/g	62	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3- <i>cd</i>]pyrene	ug/g	0.38	0.23	<0.02	<0.02	<0.02	<0.02
Methylnaphthalene, 2-(1-) ¹	ug/g	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g	6.2	0.32	<0.02	<0.02	<0.02	<0.02
Pyrene	ug/g	78	0.54	<0.02	<0.02	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

₁ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2 SOIL ANALYTICAL RESULTS PAHS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	GS403-2	GS404-2	GS405-1	GS406-1	GS407-1
Sample Depth	m bg	-	0.3	0.3	0.3	0.3	0.3
Sampling Date	dd-mmm-yy	-	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2206182	2206182	2206182	2206182	2206182
Acenaphthene	ug/g	7.9	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g	0.67	<0.02	<0.02	<0.02	<0.02	<0.02
Benz[a]anthracene	ug/g	0.50	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]pyrene	ug/g	0.30	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[b]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[ghi]perylene	ug/g	6.6	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[k]fluoranthene	ug/g	0.78	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	ug/g	7.0	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenz[a,h]anthracene	ug/g	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	ug/g	0.69	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	ug/g	62	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	<0.02	<0.02	<0.02	<0.02	<0.02
Methylnaphthalene, 2-(1-) ¹	ug/g	0.99	<0.03	<0.03	<0.03	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g	6.2	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	ug/g	78	<0.02	<0.02	<0.02	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

₁ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 2 SOIL ANALYTICAL RESULTS PAHs

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	GS408-1	GS4000 Field Duplicate of GS408-1
Sample Depth	m bg	-	0.3	-
Sampling Date	dd-mmm-yy	-	28-Jan-22	28-Jan-22
Analysis Date (on or before)	dd-mmm-yy	-	4/7-Feb-22	4/7-Feb-22
Certificate of Analysis No.	-	-	2206182	2206182
Acenaphthene	ug/g	7.9	<0.02	<0.02
Acenaphthylene	ug/g	0.15	<0.02	<0.02
Anthracene	ug/g	0.67	<0.02	<0.02
Benz[a]anthracene	ug/g	0.50	<0.02	<0.02
Benzo[a]pyrene	ug/g	0.30	<0.02	<0.02
Benzo[b]fluoranthene	ug/g	0.78	<0.02	<0.02
Benzo[ghi]perylene	ug/g	6.6	<0.02	<0.02
Benzo[k]fluoranthene	ug/g	0.78	<0.02	<0.02
Chrysene	ug/g	7.0	<0.02	<0.02
Dibenz[a,h]anthracene	ug/g	0.10	<0.02	<0.02
Fluoranthene	ug/g	0.69	<0.02	<0.02
Fluorene	ug/g	62	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g	0.38	<0.02	<0.02
Methylnaphthalene, 2-(1-) ¹	ug/g	0.99	<0.03	<0.03
Naphthalene	ug/g	0.60	<0.01	<0.01
Phenanthrene	ug/g	6.2	<0.02	<0.02
Pyrene	ug/g	78	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

TABLE 3 SOIL ANALYTICAL RESULTS BTEX and PHCS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH201-1	BH202-3A	BH202-6	BH2001 Field Duplicate of BH202-6	MW203-4
Sample Depth	m bg	-	0.0-0.61	1.55-1.85	3.81-4.42	3.81-4.42	2.29-2.90
Sampling Date	dd-mmm-yy	-	04-Oct-21	04-Oct-21	04-Oct-21	04-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488
Benzene	ug/g	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	2.3	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.1	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	<0.05	<0.05	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	ug/g	55	<7	<7	<7	<7	<7
Petroleum Hydrocarbons F2	ug/g	98	<4	<4	<4	<4	<4
Petroleum Hydrocarbons F3	ug/g	300	26	<8	<8	<8	<8
Petroleum Hydrocarbons F4	ug/g	2,800	<6	<6	<6	<6	<6
Petroleum Hydrocarbons F4G	-	2,800	-	-	-	-	-

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

1 F1 fraction does not include BTEX.

TABLE 3 SOIL ANALYTICAL RESULTS BTEX and PHCS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	MW203-7	MW2002 Field Duplicate of MW203-7	BH204-1	BH205-1	MW206-1A
Sample Depth	m bg	-	4.57-5.18	4.57-5.18	0.0-0.61	0.0-0.61	0.00-0.30
Sampling Date	dd-mmm-yy	-	05-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21
Analysis Date (on or before)	dd-mmm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488
Benzene	ug/g	0.21	<0.02	<0.02	<0.02 [1]	<0.02 [1]	<0.02
Toluene	ug/g	2.3	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05
Ethylbenzene	ug/g	1.1	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05
Xylene Mixture	ug/g	3.1	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05
Petroleum Hydrocarbons F1 ¹	ug/g	55	<7	<7	<7 [1]	<7 [1]	<7
Petroleum Hydrocarbons F2	ug/g	98	<4	<4	<4 [1]	<4 [1]	<4
Petroleum Hydrocarbons F3	ug/g	300	<8	<8	<8 [1]	30 [1]	50
Petroleum Hydrocarbons F4	ug/g	2,800	<6	<6	<6 [1]	<6 [1]	157
Petroleum Hydrocarbons F4G	-	2,800	-	-	-	-	-

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

1 F1 fraction does not include BTEX.

TABLE 3 SOIL ANALYTICAL RESULTS BTEX and PHCS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA301-A	HA302-D	HA333 Field Duplicate of HA302-D	HA303-A	HA304-A
Sample Depth	m bg	-	0.5	1.7	0.5	0.5	0.5
Sampling Date	dd-mm-yy	-	25-Nov-21	25-Nov-21	25-Nov-21	25-Nov-21	25-Nov-21
Analysis Date (on or before)	dd-mm-yy	-	3-Dec-21	3-Dec-21	3-Dec-21	3-Dec-21	3-Dec-21
Certificate of Analysis No.	-	-	2149002	2149002	2149004	2149002	2149002
Benzene	ug/g	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	2.3	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.1	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	<0.05	<0.05	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	ug/g	55	<7	<7	<7	<7	<7
Petroleum Hydrocarbons F2	ug/g	98	<4	<4	-	<4	<4
Petroleum Hydrocarbons F3	ug/g	300	<8	<8	-	<8	48
Petroleum Hydrocarbons F4	ug/g	2,800	<6	<6	-	<6	<6
Petroleum Hydrocarbons F4G	-	2,800	-	-	-	-	-

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition

Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

1 F1 fraction does not include BTEX.

TABLE 3 SOIL ANALYTICAL RESULTS BTEX and PHCS

2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA305-A	Field Blank (Methanol Blank)	Trip Blank (Methanol Blank)
Sample Depth	m bg	-	0.5		
Sampling Date	dd-mm-yy	-	25-Nov-21	05-Oct-21	24-Nov-21
Analysis Date (on or before)	dd-mm-yy	-	3-Dec-21	14-Oct-21	3-Dec-21
Certificate of Analysis No.	-	-	2149002	2141488	2149004
Benzene	ug/g	0.21	<0.02	<0.02	<0.02
Toluene	ug/g	2.3	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.1	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	ug/g	55	<7	<7	<7
Petroleum Hydrocarbons F2	ug/g	98	<4	-	-
Petroleum Hydrocarbons F3	ug/g	300	<8	-	-
Petroleum Hydrocarbons F4	ug/g	2,800	<6	-	-
Petroleum Hydrocarbons F4G	-	2,800	-	-	-

Standards from *Soil, Ground Water and Sediment Standards for Use Under Part XV.1*

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed
- m bg meters below grade
- RPD Relative percent difference
- Value** Exceeds standard
- Value Detection limit exceeds standard
- 1 F1 fraction does not include BTEX.

TABLE 4 SOIL ANALYTICAL RESULTS VOCs
2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	BH201-1	BH202-6	BH2001 Field Duplicate of BH202-6	MW203-7	MW2002 Field Duplicate of MW203-7	BH204-1	BH205-1	MW206-1A	HA301-A
Sample Depth	m bg	-	0.0-0.61	3.81-4.42	3.81-4.42	4.57-5.18	4.57-5.18	0.0-0.61	0.0-0.61	0.00-0.30	0.5
Sampling Date	dd-mm-yy	-	04-Oct-21	04-Oct-21	04-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21	25-Nov-21
Analysis Date (on or before)	dd-mm-yy	-	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	3-Dec-21
Certificate of Analysis No.	-	-	2141488	2141488	2141488	2141488	2141488	2141488	2141488	2141488	2149002
Acetone	ug/g	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 [1]	<0.50 [1]	<0.50	<0.50
Bromodichloromethane	ug/g	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Bromoforn	ug/g	0.27	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Bromomethane	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Chlorobenzene	ug/g	2.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Chloroform	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dibromochloromethane	ug/g	2.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichlorobenzene, 1,2-	ug/g	1.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichlorobenzene, 1,3-	ug/g	4.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichlorobenzene, 1,4-	ug/g	0.083	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichlorodifluoromethane	ug/g	16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichloroethane, 1,1-	ug/g	0.47	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichloroethane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichloroethylene, 1,1-	ug/g	1.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichloroethylene, 1,2-cis-	ug/g	0.084	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichloroethylene, 1,2-trans-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichloropropane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Dichloropropene 1,3-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Ethylene dibromide	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Hexane (n)	ug/g	2.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Methyl Ethyl Ketone	ug/g	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 [1]	<0.50 [1]	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 [1]	<0.50 [1]	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	ug/g	0.75	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Methylene Chloride	ug/g	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Styrene	ug/g	0.70	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	ug/g	0.068	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Tetrachloroethylene	ug/g	0.28	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Trichloroethane, 1,1,1-	ug/g	0.38	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Trichloroethane, 1,1,2-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Trichloroethylene	ug/g	0.061	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Trichlorofluoromethane	ug/g	4.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 [1]	<0.05 [1]	<0.05	<0.05
Vinyl Chloride	ug/g	0.020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 [1]	<0.02 [1]	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

TABLE 4 SOIL ANALYTICAL RESULTS VOCs
2660-2680 Brock Road, Pickering, ON

Sample Name	Units	STANDARDS Table 2 R/P/I coarse	HA303-A	HA304-A	HA305-A	Field Blank (Methanol Blank)	Trip Blank (Methanol Blank)
Sample Depth	m bg	-	0.5	0.5	0.5	-	-
Sampling Date	dd-mm-yy	-	25-Nov-21	25-Nov-21	25-Nov-21	05-Oct-21	24-Nov-21
Analysis Date (on or before)	dd-mm-yy	-	3-Dec-21	3-Dec-21	3-Dec-21	14-Oct-21	3-Dec-21
Certificate of Analysis No.	-	-	2149002	2149002	2149002	2141488	2149004
Acetone	ug/g	16	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	ug/g	1.5	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.27	<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	ug/g	2.4	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.3	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,2-	ug/g	1.2	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,3-	ug/g	4.8	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,4-	ug/g	0.083	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	ug/g	16	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethane, 1,1-	ug/g	0.47	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethylene, 1,1-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-cis-	ug/g	1.9	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-trans-	ug/g	0.084	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloropropane, 1,2-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloropropene 1,3-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene dibromide	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Hexane (n)	ug/g	2.8	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Ethyl Ketone	ug/g	16	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g	1.7	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	ug/g	0.75	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.10	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	0.70	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	ug/g	0.068	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	ug/g	0.28	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethane, 1,1,1-	ug/g	0.38	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethane, 1,1,2-	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethylene	ug/g	0.061	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4.0	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.020	<0.02	<0.02	<0.02	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 2: Full Depth Generic SCS in a Potable Ground Water Condition Residential/Parkland/Institutional Property-Use, Coarse-Textured Soil

-	Not analyzed
m bg	meters below grade
RPD	Relative percent difference
<u>Value</u>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard

APPENDIX I

CERTIFICATES OF ANALYSIS



TRUSTED.
RESPONSIVE.
RELIABLE.

351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 53221, 53222, 53223

Report Date: 26-Oct-2021
Order Date: 7-Oct-2021

Revised Report

Order #: 2141488

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

Parcel ID	Client ID	Parcel ID	Client ID
2141488-01	MW203-1B	2141488-22	BH201-2B
2141488-02	MW203-2	2141488-23	Field Blank
2141488-03	MW203-4		
2141488-04	MW203-7		
2141488-06	MW2002		
2141488-07	BH204-1		
2141488-09	BH205-1		
2141488-12	BH2006		
2141488-13	BH202-1		
2141488-14	BH202-3A		
2141488-15	BH202-6		
2141488-17	BH2001		
2141488-18	MW206-1A		
2141488-19	MW206-1B		
2141488-21	BH201-1		

Approved By:

Alex Enfield, MSc
Lab Manager

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	14-Oct-21	14-Oct-21
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	12-Oct-21	13-Oct-21
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	12-Oct-21	14-Oct-21
Conductivity	MOE E3138 - probe @25 °C, water ext	14-Oct-21	14-Oct-21
Cyanide, free	MOE E3015 - Auto Colour, water extraction	12-Oct-21	12-Oct-21
Mercury by CVAA	EPA 7471B - CVAA, digestion	14-Oct-21	14-Oct-21
PHC F1	CWS Tier 1 - P&T GC-FID	12-Oct-21	13-Oct-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	12-Oct-21	14-Oct-21
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	14-Oct-21	14-Oct-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	12-Oct-21	13-Oct-21
REG 153: pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	14-Oct-21	14-Oct-21
REG 153: PHC F4(g)	CWS Tier 1 - Extraction Gravimetric	14-Oct-21	14-Oct-21
REG 153: VOCs by P&T GC-MS	EPA 8260 - P&T GC-MS	12-Oct-21	21-Oct-21
SAR	Calculated	14-Oct-21	14-Oct-21
Solids, %	Gravimetric, calculation	12-Oct-21	13-Oct-21

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Residential
BH201-1	Boron, available	0.5 ug/g	4.5	(1.5) ug/g

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03
 Client PO:

Client ID:	Sample Date:	Sample ID:	Matrix:	Criteria:			
				MDL/Units			
MW203-1B	05-Oct-2021	2141488-01	Soil	90.1	89.9	87.8	92.1
MW203-2	05-Oct-2021	2141488-02	Soil				
MW203-4	05-Oct-2021	2141488-03	Soil				
MW203-7	05-Oct-2021	2141488-04	Soil				

Physical Characteristics							
% Solids	0.1 % by Wt.	90.1	89.9	87.8	92.1		
General Inorganics							
SAR	0.01 N/A	-	0.42	-	-	(5)	N/A
Conductivity	5 uS/cm	-	132	-	-	(0.7)	mS/cm
Cyanide, free	0.03 ug/g	-	<0.03	-	-	(0.051)	ug/g
pH	0.05 pH Units	-	7.57	-	7.73	(5 - 9)	pH units
Metals							
Antimony	1.0 ug/g	-	<1.0	-	-	(7.5)	ug/g
Arsenic	1.0 ug/g	-	1.5	-	-	(18)	ug/g
Barium	1.0 ug/g	-	41.7	-	-	(390)	ug/g
Beryllium	0.5 ug/g	-	<0.5	-	-	(5)	ug/g
Boron	5.0 ug/g	-	6.1	-	-	(120)	ug/g
Boron, available	0.5 ug/g	-	1.0	-	-	(1.5)	ug/g
Cadmium	0.5 ug/g	-	<0.5	-	-	(1.2)	ug/g
Chromium	5.0 ug/g	-	10.8	-	-	(160)	ug/g
Chromium (VI)	0.2 ug/g	-	<0.2	-	-	(10)	ug/g
Cobalt	1.0 ug/g	-	3.9	-	-	(22)	ug/g
Copper	5.0 ug/g	-	7.7	-	-	(180)	ug/g
Lead	1.0 ug/g	-	2.8	-	-	(120)	ug/g
Mercury	0.1 ug/g	-	<0.1	-	-	(1.8)	ug/g
Molybdenum	1.0 ug/g	-	<1.0	-	-	(6.9)	ug/g
Nickel	5.0 ug/g	-	7.3	-	-	(130)	ug/g
Selenium	1.0 ug/g	-	<1.0	-	-	(2.4)	ug/g

	Client ID:				Criteria:
	Sample Date:	MW203-2	MW203-4	MW203-7	
	Sample ID:	05-Oct-2021 2141488-01	05-Oct-2021 2141488-03	05-Oct-2021 2141488-04	
	Matrix:	Soil	Soil	Soil	Reg 153/04 (2011)-Table 2 Residential
	MDL/Units				
Silver	0.3 ug/g	<0.3	-	-	(25) ug/g
Thallium	1.0 ug/g	<1.0	-	-	(1) ug/g
Uranium	1.0 ug/g	<1.0	-	-	(23) ug/g
Vanadium	10.0 ug/g	20.4	-	-	(86) ug/g
Zinc	20.0 ug/g	<20.0	-	-	(340) ug/g
Volatiles					
Acetone	0.50 ug/g	-	-	<0.50	(28) ug/g
Benzene	0.02 ug/g	-	-	<0.02	(0.17) ug/g
Bromodichloromethane	0.05 ug/g	-	-	<0.05	(1.9) ug/g
Bromoform	0.05 ug/g	-	-	<0.05	(0.26) ug/g
Bromomethane	0.05 ug/g	-	-	<0.05	(0.05) ug/g
Carbon Tetrachloride	0.05 ug/g	-	-	<0.05	(0.12) ug/g
Chlorobenzene	0.05 ug/g	-	-	<0.05	(2.7) ug/g
Chloroform	0.05 ug/g	-	-	<0.05	(0.18) ug/g
Dibromochloromethane	0.05 ug/g	-	-	<0.05	(2.9) ug/g
Dichlorodifluoromethane	0.05 ug/g	-	-	<0.05	(25) ug/g
1,2-Dichlorobenzene	0.05 ug/g	-	-	<0.05	(1.7) ug/g
1,3-Dichlorobenzene	0.05 ug/g	-	-	<0.05	(6) ug/g
1,4-Dichlorobenzene	0.05 ug/g	-	-	<0.05	(0.097) ug/g
1,1-Dichloroethane	0.05 ug/g	-	-	<0.05	(0.6) ug/g
1,2-Dichloroethane	0.05 ug/g	-	-	<0.05	(0.05) ug/g
1,1-Dichloroethylene	0.05 ug/g	-	-	<0.05	(0.05) ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	-	-	<0.05	(2.5) ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	-	-	<0.05	(0.75) ug/g

	Client ID:				MDL/Units	Matrix:	Criteria:
	Sample Date:	Sample ID:	Sample ID:	Sample ID:			
	MW203-1B 05-Oct-2021 2141488-01 Soil	MW203-2 05-Oct-2021 2141488-02 Soil	MW203-4 05-Oct-2021 2141488-03 Soil	MW203-7 05-Oct-2021 2141488-04 Soil			
1,2-Dichloropropane	0.05 ug/g	-	-	-	<0.05	(0.085)	ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	-	-	-	<0.05		
trans-1,3-Dichloropropylene	0.05 ug/g	-	-	-	<0.05		
1,3-Dichloropropene, total	0.05 ug/g	-	-	-	<0.05	(0.081)	ug/g
Ethylbenzene	0.05 ug/g	-	-	-	<0.05	(1.6)	ug/g
Ethylene dibromide (dibromoethane)	0.05 ug/g	-	-	-	<0.05	(0.05)	ug/g
Hexane	0.05 ug/g	-	-	-	<0.05	(34)	ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	-	-	<0.50	(44)	ug/g
Methyl Isobutyl Ketone	0.50 ug/g	-	-	-	<0.50	(4.3)	ug/g
Methyl tert-butyl ether	0.05 ug/g	-	-	-	<0.05	(1.4)	ug/g
Methylene Chloride	0.05 ug/g	-	-	-	<0.05	(0.96)	ug/g
Styrene	0.05 ug/g	-	-	-	<0.05	(2.2)	ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	-	-	<0.05	(0.05)	ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	-	-	<0.05	(0.05)	ug/g
Tetrachloroethylene	0.05 ug/g	-	-	-	<0.05	(2.3)	ug/g
Toluene	0.05 ug/g	-	-	-	<0.05	(6)	ug/g
1,1,1-Trichloroethane	0.05 ug/g	-	-	-	<0.05	(3.4)	ug/g
1,1,2-Trichloroethane	0.05 ug/g	-	-	-	<0.05	(0.05)	ug/g
Trichloroethylene	0.05 ug/g	-	-	-	<0.05	(0.52)	ug/g
Trichlorofluoromethane	0.05 ug/g	-	-	-	<0.05	(5.8)	ug/g
Vinyl chloride	0.02 ug/g	-	-	-	<0.02	(0.022)	ug/g
m,p-Xylenes	0.05 ug/g	-	-	-	<0.05		
o-Xylene	0.05 ug/g	-	-	-	<0.05		

	Client ID:				Criteria:		
	Sample Date:						
	Sample ID:						
MDL/Units	Matrix:	MW203-1B	MW203-2	MW203-4	MW203-7		
		05-Oct-2021 2141488-01	05-Oct-2021 2141488-02	05-Oct-2021 2141488-03	05-Oct-2021 2141488-04		
Xylenes, total	0.05 ug/g	-	-	-	<0.05	(25)	ug/g
4-Bromofluorobenzene	Surrogate	-	-	-	102%		
Dibromofluoromethane	Surrogate	-	-	-	94.7%		
Toluene-d8	Surrogate	-	-	-	104%		
Benzene	0.02 ug/g	-	-	<0.02	-	(0.17)	ug/g
Ethylbenzene	0.05 ug/g	-	-	<0.05	-	(1.6)	ug/g
Toluene	0.05 ug/g	-	-	<0.05	-	(6)	ug/g
m,p-Xylenes	0.05 ug/g	-	-	<0.05	-		
o-Xylene	0.05 ug/g	-	-	<0.05	-		
Xylenes, total	0.05 ug/g	-	-	<0.05	-	(25)	ug/g
Toluene-d8	Surrogate	-	-	104%	-		
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	-	<7	<7	(65)	ug/g
F2 PHCs (C10-C16)	4 ug/g	-	-	<4	<4	(150)	ug/g
F3 PHCs (C16-C34)	8 ug/g	-	-	<8	<8	(1,300)	ug/g
F4 PHCs (C34-C50)	6 ug/g	-	-	<6	<6	(5,600)	ug/g
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	<0.02	(29)	ug/g
Acenaphthylene	0.02 ug/g	<0.02	-	-	<0.02	(0.17)	ug/g
Anthracene	0.02 ug/g	<0.02	-	-	<0.02	(0.74)	ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	<0.02	(0.63)	ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	<0.02	(0.3)	ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	(0.78)	ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	<0.02	(7.8)	ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	(0.78)	ug/g

	Client ID:					Criteria:
	Sample Date:	MW203-1B	MW203-2	MW203-4	MW203-7	
	Sample ID:	05-Oct-2021 2141488-01	05-Oct-2021 2141488-02	05-Oct-2021 2141488-03	05-Oct-2021 2141488-04	
	Matrix:	Soil	Soil	Soil	Soil	Reg 153/04 (2011)-Table 2 Residential
	MDL/Units					
Chrysene	0.02 ug/g	<0.02	-	-	<0.02	(7.8) ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	<0.02	(0.1) ug/g
Fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	(0.69) ug/g
Fluorene	0.02 ug/g	<0.02	-	-	<0.02	(69) ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	<0.02	(0.48) ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	<0.02	(3.4) ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	<0.02	(3.4) ug/g
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	-	-	<0.03	(3.4) ug/g
Naphthalene	0.01 ug/g	<0.01	-	-	<0.01	(0.75) ug/g
Phenanthrene	0.02 ug/g	<0.02	-	-	<0.02	(7.8) ug/g
Pyrene	0.02 ug/g	<0.02	-	-	<0.02	(78) ug/g
2-Fluorobiphenyl	Surrogate	90.2%	-	-	89.8%	
Terphenyl-d14	Surrogate	105%	-	-	100%	

Client ID:	BH2002	BH204-1	BH205-1	BH2006
Sample Date:	05-Oct-2021	05-Oct-2021	05-Oct-2021	05-Oct-2021
Sample ID:	2141488-06	2141488-07	2141488-09	2141488-12
Matrix:	Soil	Soil	Soil	Soil
MDL/Units				

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics		MDL/Units	Value	Criteria
% Solids	0.1 % by Wt.	92.0	86.0	97.0
General Inorganics				
SAR	0.01 N/A	-	-	0.12 (5) N/A
Conductivity	5 uS/cm	-	-	86 (0.7) mS/cm
Cyanide, free	0.03 ug/g	-	-	<0.03 (0.051) ug/g
pH	0.05 pH Units	-	-	7.78 (5 - 9) pH units
Metals				
Antimony	1.0 ug/g	-	-	<1.0 (7.5) ug/g
Arsenic	1.0 ug/g	-	-	<1.0 (18) ug/g
Barium	1.0 ug/g	-	-	11.8 (390) ug/g
Beryllium	0.5 ug/g	-	-	<0.5 (5) ug/g
Boron	5.0 ug/g	-	-	<5.0 (120) ug/g
Boron, available	0.5 ug/g	-	-	1.3 (1.5) ug/g
Cadmium	0.5 ug/g	-	-	<0.5 (1.2) ug/g
Chromium	5.0 ug/g	-	-	<5.0 (160) ug/g
Chromium (VI)	0.2 ug/g	-	-	<0.2 (10) ug/g
Cobalt	1.0 ug/g	-	-	1.3 (22) ug/g
Copper	5.0 ug/g	-	-	<5.0 (180) ug/g
Lead	1.0 ug/g	-	-	1.5 (120) ug/g
Mercury	0.1 ug/g	-	-	<0.1 (1.8) ug/g
Molybdenum	1.0 ug/g	-	-	<1.0 (6.9) ug/g
Nickel	5.0 ug/g	-	-	<5.0 (130) ug/g
Selenium	1.0 ug/g	-	-	<1.0 (2.4) ug/g

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

 Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03

	Client ID:				Criteria:
	Sample Date:	BH204-1	BH205-1	BH2006	
	Sample ID:	05-Oct-2021 2141488-06	05-Oct-2021 2141488-09	05-Oct-2021 2141488-12	
	Matrix:	Soil	Soil	Soil	Reg 153/04 (2011)-Table 2 Residential
	MDL/Units				
Silver	0.3 ug/g	-	-	<0.3	(25) ug/g
Thallium	1.0 ug/g	-	-	<1.0	(1) ug/g
Uranium	1.0 ug/g	-	-	<1.0	(23) ug/g
Vanadium	10.0 ug/g	-	-	<10.0	(86) ug/g
Zinc	20.0 ug/g	-	-	<20.0	(340) ug/g
Volatiles					
Acetone	0.50 ug/g	<0.50 [1]	<0.50 [1]	-	(28) ug/g
Benzene	0.02 ug/g	<0.02 [1]	<0.02 [1]	-	(0.17) ug/g
Bromodichloromethane	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(1.9) ug/g
Bromoform	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.26) ug/g
Bromomethane	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.12) ug/g
Chlorobenzene	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(2.7) ug/g
Chloroform	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.18) ug/g
Dibromochloromethane	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(2.9) ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(25) ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(1.7) ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(6) ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.097) ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.6) ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.05) ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(2.5) ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05 [1]	<0.05 [1]	-	(0.75) ug/g

	Client ID:				Matrix:	MDL/Units	Criteria:	
	Sample Date:	BH2002	BH204-1	BH205-1				BH2006
	Sample ID:	05-Oct-2021 2141488-06	05-Oct-2021 2141488-07	05-Oct-2021 2141488-09				05-Oct-2021 2141488-12
	Soil	Soil	Soil	Soil			Reg 153/04 (2011)-Table 2 Residential	
1,2-Dichloropropane	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.085)	ug/g	
cis-1,3-Dichloropropylene	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-			
trans-1,3-Dichloropropylene	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-			
1,3-Dichloropropene, total	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.081)	ug/g	
Ethylbenzene	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(1.6)	ug/g	
Ethylene dibromide (dibromoethane)	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.05)	ug/g	
Hexane	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(34)	ug/g	
Methyl Ethyl Ketone (2-Butanone)	<0.50	<0.50 [1]	<0.50 [1]	<0.50 [1]	-	(44)	ug/g	
Methyl Isobutyl Ketone	<0.50	<0.50 [1]	<0.50 [1]	<0.50 [1]	-	(4.3)	ug/g	
Methyl tert-butyl ether	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(1.4)	ug/g	
Methylene Chloride	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.96)	ug/g	
Styrene	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(2.2)	ug/g	
1,1,1,2-Tetrachloroethane	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.05)	ug/g	
1,1,2,2-Tetrachloroethane	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.05)	ug/g	
Tetrachloroethylene	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(2.3)	ug/g	
Toluene	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(6)	ug/g	
1,1,1-Trichloroethane	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(3.4)	ug/g	
1,1,2-Trichloroethane	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.05)	ug/g	
Trichloroethylene	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(0.52)	ug/g	
Trichlorofluoromethane	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-	(5.8)	ug/g	
Vinyl chloride	<0.02	<0.02 [1]	<0.02 [1]	<0.02 [1]	-	(0.022)	ug/g	
m,p-Xylenes	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-			
o-Xylene	<0.05	<0.05 [1]	<0.05 [1]	<0.05 [1]	-			

	Client ID:				Matrix:	MDL/Units	Criteria:
	Sample Date:	Sample ID:	Sample ID:	Sample ID:			
	MW2002 05-Oct-2021 2141488-06	BH204-1 05-Oct-2021 2141488-07	BH205-1 05-Oct-2021 2141488-09	BH2006 05-Oct-2021 2141488-12			
	Soil	Soil	Soil	Soil		Reg 153/04 (2011)-Table 2 Residential	
Xylenes, total	<0.05	<0.05 [1]	<0.05 [1]	-	0.05 ug/g	(25)	ug/g
4-Bromofluorobenzene	102%	91.9% [1]	92.1% [1]	-	Surrogate		
Dibromofluoromethane	95.4%	90.7% [1]	90.2% [1]	-	Surrogate		
Toluene-d8	103%	102% [1]	102% [1]	-	Surrogate		
Hydrocarbons							
F1 PHCs (C6-C10)	<7	<7 [1]	<7 [1]	-	7 ug/g	(65)	ug/g
F2 PHCs (C10-C16)	<4	<4 [1]	<4 [1]	-	4 ug/g	(150)	ug/g
F3 PHCs (C16-C34)	<8	<8 [1]	30 [1]	-	8 ug/g	(1,300)	ug/g
F4 PHCs (C34-C50)	<6	<6 [1]	<6 [1]	-	6 ug/g	(5,600)	ug/g
Semi-Volatiles							
Acenaphthene	<0.02	-	-	-	0.02 ug/g	(29)	ug/g
Acenaphthylene	<0.02	-	-	-	0.02 ug/g	(0.17)	ug/g
Anthracene	<0.02	-	-	-	0.02 ug/g	(0.74)	ug/g
Benzo [a] anthracene	<0.02	-	-	-	0.02 ug/g	(0.63)	ug/g
Benzo [a] pyrene	<0.02	-	-	-	0.02 ug/g	(0.3)	ug/g
Benzo [b] fluoranthene	<0.02	-	-	-	0.02 ug/g	(0.78)	ug/g
Benzo [g,h,i] perylene	<0.02	-	-	-	0.02 ug/g	(7.8)	ug/g
Benzo [k] fluoranthene	<0.02	-	-	-	0.02 ug/g	(0.78)	ug/g
Chrysene	<0.02	-	-	-	0.02 ug/g	(7.8)	ug/g
Dibenzo [a,h] anthracene	<0.02	-	-	-	0.02 ug/g	(0.1)	ug/g
Fluoranthene	<0.02	-	-	-	0.02 ug/g	(0.69)	ug/g
Fluorene	<0.02	-	-	-	0.02 ug/g	(69)	ug/g
Indeno [1,2,3-cd] pyrene	<0.02	-	-	-	0.02 ug/g	(0.48)	ug/g
1-Methylnaphthalene	<0.02	-	-	-	0.02 ug/g	(3.4)	ug/g

Report Date: 26-Oct-2021
Order Date: 7-Oct-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

	Client ID:				Criteria:
	MW2002 05-Oct-2021 2141488-06 Soil	BH204-1 05-Oct-2021 2141488-07 Soil	BH205-1 05-Oct-2021 2141488-09 Soil	BH2006 05-Oct-2021 2141488-12 Soil	
Sample ID:	Sample Date:				Reg 153/04 (2011)-Table 2 Residential
Matrix:	Matrix:				
	MDL/Units				
2-Methylnaphthalene	0.02 ug/g	-	-	-	(3.4) ug/g
Methylnaphthalene (1&2)	0.03 ug/g	-	-	-	(3.4) ug/g
Naphthalene	0.01 ug/g	-	-	-	(0.75) ug/g
Phenanthrene	0.02 ug/g	-	-	-	(7.8) ug/g
Pyrene	0.02 ug/g	-	-	-	(78) ug/g
2-Fluorobiphenyl	Surrogate	-	-	-	
Terphenyl-d14	Surrogate	-	-	-	
	100%	-	-	-	

Client ID:		BH2001	
Sample Date:		04-Oct-2021	
Sample ID:		2141488-17	
Matrix:		Soil	
MDL/Units			

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics		BH202-1		BH202-3A		BH202-6		BH2001		
% Solids		04-Oct-2021		04-Oct-2021		04-Oct-2021		04-Oct-2021		
0.1 % by Wt.		2141488-13		2141488-14		2141488-15		2141488-17		
		Soil		Soil		Soil		Soil		
MDL/Units										
SAR	0.01 N/A	80.2	91.9	91.0	89.7	-	-	-	N/A	
Conductivity	5 uS/cm	197	-	-	-	-	-	-	(5)	
Cyanide, free	0.03 ug/g	<0.03	-	-	-	-	-	-	(0.7)	
pH	0.05 pH Units	7.23	-	7.65	-	-	-	-	(0.051)	
Metals										
Antimony	1.0 ug/g	<1.0	-	-	-	-	-	-	(7.5)	ug/g
Arsenic	1.0 ug/g	2.4	-	-	-	-	-	-	(18)	ug/g
Barium	1.0 ug/g	46.2	-	-	-	-	-	-	(390)	ug/g
Beryllium	0.5 ug/g	<0.5	-	-	-	-	-	-	(5)	ug/g
Boron	5.0 ug/g	5.5	-	-	-	-	-	-	(120)	ug/g
Boron, available	0.5 ug/g	<0.5	-	-	-	-	-	-	(1.5)	ug/g
Cadmium	0.5 ug/g	<0.5	-	-	-	-	-	-	(1.2)	ug/g
Chromium	5.0 ug/g	12.9	-	-	-	-	-	-	(160)	ug/g
Chromium (VI)	0.2 ug/g	<0.2	-	-	-	-	-	-	(10)	ug/g
Cobalt	1.0 ug/g	4.7	-	-	-	-	-	-	(22)	ug/g
Copper	5.0 ug/g	10.0	-	-	-	-	-	-	(180)	ug/g
Lead	1.0 ug/g	8.8	-	-	-	-	-	-	(120)	ug/g
Mercury	0.1 ug/g	<0.1	-	-	-	-	-	-	(1.8)	ug/g
Molybdenum	1.0 ug/g	<1.0	-	-	-	-	-	-	(6.9)	ug/g
Nickel	5.0 ug/g	9.7	-	-	-	-	-	-	(130)	ug/g
Selenium	1.0 ug/g	<1.0	-	-	-	-	-	-	(2.4)	ug/g

	Client ID:				Criteria:
	Sample ID:	Sample Date:	BH202-1	BH202-3A	
	Sample ID:	Sample Date:	BH202-6	BH2001	
	Matrix:	Soil	Soil	Soil	Reg 153/04 (2011)-Table 2 Residential
	MDL/Units				
Silver	0.3 ug/g	<0.3	-	-	(25) ug/g
Thallium	1.0 ug/g	<1.0	-	-	(1) ug/g
Uranium	1.0 ug/g	<1.0	-	-	(23) ug/g
Vanadium	10.0 ug/g	24.7	-	-	(86) ug/g
Zinc	20.0 ug/g	36.8	-	-	(340) ug/g
Volatiles					
Acetone	0.50 ug/g	-	<0.50	<0.50	(28) ug/g
Benzene	0.02 ug/g	-	<0.02	<0.02	(0.17) ug/g
Bromodichloromethane	0.05 ug/g	-	<0.05	<0.05	(1.9) ug/g
Bromoform	0.05 ug/g	-	<0.05	<0.05	(0.26) ug/g
Bromomethane	0.05 ug/g	-	<0.05	<0.05	(0.05) ug/g
Carbon Tetrachloride	0.05 ug/g	-	<0.05	<0.05	(0.12) ug/g
Chlorobenzene	0.05 ug/g	-	<0.05	<0.05	(2.7) ug/g
Chloroform	0.05 ug/g	-	<0.05	<0.05	(0.18) ug/g
Dibromochloromethane	0.05 ug/g	-	<0.05	<0.05	(2.9) ug/g
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	<0.05	(25) ug/g
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	(1.7) ug/g
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	(6) ug/g
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	(0.097) ug/g
1,1-Dichloroethane	0.05 ug/g	-	<0.05	<0.05	(0.6) ug/g
1,2-Dichloroethane	0.05 ug/g	-	<0.05	<0.05	(0.05) ug/g
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	(0.05) ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	(2.5) ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	(0.75) ug/g

	Client ID:				Criteria:					
	Sample Date:		Sample ID:							
	MDL/Units	Matrix:	MDL/Units	Matrix:						
1,2-Dichloropropane	0.05 ug/g	-	BH202-1 04-Oct-2021 2141488-13 Soil	BH202-3A 04-Oct-2021 2141488-14 Soil	BH202-6 04-Oct-2021 2141488-15 Soil	BH2001 04-Oct-2021 2141488-17 Soil	Reg 153/04 (2011)-Table 2 Residential	(0.085)	ug/g	
cis-1,3-Dichloropropylene	0.05 ug/g	-								
trans-1,3-Dichloropropylene	0.05 ug/g	-								
1,3-Dichloropropene, total	0.05 ug/g	-							(0.081)	ug/g
Ethylbenzene	0.05 ug/g	-							(1.6)	ug/g
Ethylene dibromide (dibromoethane)	0.05 ug/g	-							(0.05)	ug/g
Hexane	0.05 ug/g	-							(34)	ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-							(44)	ug/g
Methyl Isobutyl Ketone	0.50 ug/g	-							(4.3)	ug/g
Methyl tert-butyl ether	0.05 ug/g	-							(1.4)	ug/g
Methylene Chloride	0.05 ug/g	-							(0.96)	ug/g
Styrene	0.05 ug/g	-							(2.2)	ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	-							(0.05)	ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	-							(0.05)	ug/g
Tetrachloroethylene	0.05 ug/g	-							(2.3)	ug/g
Toluene	0.05 ug/g	-							(6)	ug/g
1,1,1-Trichloroethane	0.05 ug/g	-							(3.4)	ug/g
1,1,2-Trichloroethane	0.05 ug/g	-							(0.05)	ug/g
Trichloroethylene	0.05 ug/g	-							(0.52)	ug/g
Trichlorofluoromethane	0.05 ug/g	-							(5.8)	ug/g
Vinyl chloride	0.02 ug/g	-							(0.022)	ug/g
m,p-Xylenes	0.05 ug/g	-								ug/g
o-Xylene	0.05 ug/g	-								ug/g

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

 Report Date: 26-Oct-2021
 Order Date: 7-Oct-2021
 Project Description: CT2694.03

	Client ID:				Criteria:		
	Sample Date:		Sample ID:				
	MDL/Units	Matrix:	MDL/Units	Matrix:			
Xylenes, total	0.05 ug/g	-	-	-	(25)	ug/g	
4-Bromofluorobenzene	Surrogate	-	-	-	102%		
Dibromofluoromethane	Surrogate	-	-	-	95.3%		
Toluene-d8	Surrogate	-	-	-	104%		
Benzene	0.02 ug/g	-	<0.02	-	(0.17)	ug/g	
Ethylbenzene	0.05 ug/g	-	<0.05	-	(1.6)	ug/g	
Toluene	0.05 ug/g	-	<0.05	-	(6)	ug/g	
m,p-Xylenes	0.05 ug/g	-	<0.05	-			
o-Xylene	0.05 ug/g	-	<0.05	-			
Xylenes, total	0.05 ug/g	-	<0.05	-	(25)	ug/g	
Toluene-d8	Surrogate	-	104%	-			
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	-	<7	(65)	ug/g
F2 PHCs (C10-C16)	4 ug/g	-	<4	-	<4	(150)	ug/g
F3 PHCs (C16-C34)	8 ug/g	-	<8	-	<8	(1,300)	ug/g
F4 PHCs (C34-C50)	6 ug/g	-	<6	-	<6	(5,600)	ug/g
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	<0.02	(29)	ug/g
Acenaphthylene	0.02 ug/g	<0.02	-	-	<0.02	(0.17)	ug/g
Anthracene	0.02 ug/g	<0.02	-	-	<0.02	(0.74)	ug/g
Benzo [a] anthracene	0.02 ug/g	0.04	-	-	<0.02	(0.63)	ug/g
Benzo [a] pyrene	0.02 ug/g	0.04	-	-	<0.02	(0.3)	ug/g
Benzo [b] fluoranthene	0.02 ug/g	0.04	-	-	<0.02	(0.78)	ug/g
Benzo [g,h,i] perylene	0.02 ug/g	0.02	-	-	<0.02	(7.8)	ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	(0.78)	ug/g

Report Date: 26-Oct-2021
Order Date: 7-Oct-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

	Client ID:				Criteria:							
	Sample Date:	Sample ID:	Matrix:	MDL/Units								
	Reg 153/04 (2011)-Table 2 Residential											
Chrysene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	0.04	-	<0.02	-	ug/g	(7.8)
Dibenzo [a,h] anthracene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	<0.02	-	<0.02	-	ug/g	(0.1)
Fluoranthene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	0.08	-	<0.02	-	ug/g	(0.69)
Fluorene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	<0.02	-	<0.02	-	ug/g	(69)
Indeno [1,2,3-cd] pyrene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	0.03	-	<0.02	-	ug/g	(0.48)
1-Methylnaphthalene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	<0.02	-	<0.02	-	ug/g	(3.4)
2-Methylnaphthalene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	<0.02	-	<0.02	-	ug/g	(3.4)
Methylnaphthalene (1&2)	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	<0.03	-	<0.03	-	ug/g	(3.4)
Naphthalene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	<0.01	-	<0.01	-	ug/g	(0.75)
Phenanthrene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	<0.02	-	<0.02	-	ug/g	(7.8)
Pyrene	04-Oct-2021	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	0.06	-	<0.02	-	ug/g	(78)
2-Fluorobiphenyl	Surrogate	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	84.2%	-	91.2%	-		
Terphenyl-d14	Surrogate	BH202-1 2141488-13	BH202-3A 2141488-14	BH202-6 04-Oct-2021 2141488-15	BH2001 04-Oct-2021 2141488-17	Soil	97.9%	-	104%	-		

Client ID:	MW206-1A	MW206-1B	BH201-1	BH201-2B
Sample Date:	05-Oct-2021	05-Oct-2021	04-Oct-2021	04-Oct-2021
Sample ID:	2141488-18	2141488-19	2141488-21	2141488-22
Matrix:	Soil	Soil	Soil	Soil
MDL/Units				

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics	MDL/Units	94.5	85.3	80.2	-
% Solids	0.1 % by Wt.				
General Inorganics					
SAR	0.01 N/A	-	1.70	0.26	- (5) N/A
Conductivity	5 uS/cm	-	249	156	- (0.7) mS/cm
Cyanide, free	0.03 ug/g	-	<0.03	<0.03	- (0.051) ug/g
pH	0.05 pH Units	-	7.38	7.20	- (5 - 9) pH units
Metals					
Antimony	1.0 ug/g	-	<1.0	<1.0	- (7.5) ug/g
Arsenic	1.0 ug/g	-	2.2	5.2	- (18) ug/g
Barium	1.0 ug/g	-	48.8	50.3	- (390) ug/g
Beryllium	0.5 ug/g	-	<0.5	<0.5	- (5) ug/g
Boron	5.0 ug/g	-	5.2	6.0	- (120) ug/g
Boron, available	0.5 ug/g	-	<0.5	4.5	<0.5 (1.5) ug/g
Cadmium	0.5 ug/g	-	<0.5	<0.5	- (1.2) ug/g
Chromium	5.0 ug/g	-	12.8	13.9	- (160) ug/g
Chromium (VI)	0.2 ug/g	-	<0.2	<0.2	- (10) ug/g
Cobalt	1.0 ug/g	-	4.3	4.9	- (22) ug/g
Copper	5.0 ug/g	-	6.8	11.0	- (180) ug/g
Lead	1.0 ug/g	-	8.2	9.0	- (120) ug/g
Mercury	0.1 ug/g	-	<0.1	<0.1	- (1.8) ug/g
Molybdenum	1.0 ug/g	-	<1.0	<1.0	- (6.9) ug/g
Nickel	5.0 ug/g	-	7.9	9.8	- (130) ug/g
Selenium	1.0 ug/g	-	<1.0	<1.0	- (2.4) ug/g

	Client ID:				MDL/Units	Criteria:
	Sample Date:	Sample ID:	Matrix:	Reg 153/04 (2011)-Table 2 Residential		
	MW206-1A 05-Oct-2021 2141488-18	MW206-1B 05-Oct-2021 2141488-19	BH201-1 04-Oct-2021 2141488-21	BH201-2B 04-Oct-2021 2141488-22		
Silver	-	<0.3	<0.3	-	(25)	ug/g
Thallium	-	<1.0	<1.0	-	(1)	ug/g
Uranium	-	<1.0	<1.0	-	(23)	ug/g
Vanadium	-	24.8	26.4	-	(86)	ug/g
Zinc	-	31.9	42.4	-	(340)	ug/g
Volatiles						
Acetone	<0.50	-	<0.50	-	(28)	ug/g
Benzene	<0.02	-	<0.02	-	(0.17)	ug/g
Bromodichloromethane	<0.05	-	<0.05	-	(1.9)	ug/g
Bromoform	<0.05	-	<0.05	-	(0.26)	ug/g
Bromomethane	<0.05	-	<0.05	-	(0.05)	ug/g
Carbon Tetrachloride	<0.05	-	<0.05	-	(0.12)	ug/g
Chlorobenzene	<0.05	-	<0.05	-	(2.7)	ug/g
Chloroform	<0.05	-	<0.05	-	(0.18)	ug/g
Dibromochloromethane	<0.05	-	<0.05	-	(2.9)	ug/g
Dichlorodifluoromethane	<0.05	-	<0.05	-	(25)	ug/g
1,2-Dichlorobenzene	<0.05	-	<0.05	-	(1.7)	ug/g
1,3-Dichlorobenzene	<0.05	-	<0.05	-	(6)	ug/g
1,4-Dichlorobenzene	<0.05	-	<0.05	-	(0.097)	ug/g
1,1-Dichloroethane	<0.05	-	<0.05	-	(0.6)	ug/g
1,2-Dichloroethane	<0.05	-	<0.05	-	(0.05)	ug/g
1,1-Dichloroethylene	<0.05	-	<0.05	-	(0.05)	ug/g
cis-1,2-Dichloroethylene	<0.05	-	<0.05	-	(2.5)	ug/g
trans-1,2-Dichloroethylene	<0.05	-	<0.05	-	(0.75)	ug/g

	Client ID:				Matrix:	MDL/Units	Criteria:
	Sample Date:	Sample ID:	Sample ID:	Sample ID:			
	MW206-1A 05-Oct-2021 2141488-18 Soil	MW206-1B 05-Oct-2021 2141488-19 Soil	BH201-1 04-Oct-2021 2141488-21 Soil	BH201-2B 04-Oct-2021 2141488-22 Soil			
1,2-Dichloropropane	0.05 ug/g	<0.05	-	<0.05	-	(0.085)	ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	-		
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	-		
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	<0.05	-	(0.081)	ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	<0.05	-	(1.6)	ug/g
Ethylene dibromide (dibromoethane)	0.05 ug/g	<0.05	-	<0.05	-	(0.05)	ug/g
Hexane	0.05 ug/g	<0.05	-	<0.05	-	(34)	ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	<0.50	-	(44)	ug/g
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	<0.50	-	(4.3)	ug/g
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	<0.05	-	(1.4)	ug/g
Methylene Chloride	0.05 ug/g	<0.05	-	<0.05	-	(0.96)	ug/g
Styrene	0.05 ug/g	<0.05	-	<0.05	-	(2.2)	ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	-	(0.05)	ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	-	(0.05)	ug/g
Tetrachloroethylene	0.05 ug/g	<0.05	-	<0.05	-	(2.3)	ug/g
Toluene	0.05 ug/g	<0.05	-	<0.05	-	(6)	ug/g
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	-	(3.4)	ug/g
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	-	(0.05)	ug/g
Trichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	(0.52)	ug/g
Trichlorofluoromethane	0.05 ug/g	<0.05	-	<0.05	-	(5.8)	ug/g
Vinyl chloride	0.02 ug/g	<0.02	-	<0.02	-	(0.022)	ug/g
m,p-Xylenes	0.05 ug/g	<0.05	-	<0.05	-		
o-Xylene	0.05 ug/g	<0.05	-	<0.05	-		

	Client ID:				MDL/Units	Criteria:
	Sample Date:	MW206-1A	MW206-1B	BH201-2B		
	Sample ID:	05-Oct-2021 2141488-18	05-Oct-2021 2141488-19	04-Oct-2021 2141488-22		
Matrix:	Soil					
Xylenes, total	0.05 ug/g	<0.05	-	<0.05	-	(25) ug/g
4-Bromofluorobenzene	Surrogate	102%	-	102%	-	
Dibromofluoromethane	Surrogate	94.5%	-	94.3%	-	
Toluene-d8	Surrogate	103%	-	104%	-	
Hydrocarbons						
F1 PHCs (C6-C10)	7 ug/g	<7	-	<7	-	(65) ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	-	<4	-	(150) ug/g
F3 PHCs (C16-C34)	8 ug/g	50	-	26	-	(1,300) ug/g
F4 PHCs (C34-C50)	6 ug/g	157	-	<6	-	(5,600) ug/g
F4G-sg PHCs (gravimetric)	50 ug/g	741	-	-	-	(5,600) ug/g
Semi-Volatiles						
Acenaphthene	0.02 ug/g	-	<0.02	<0.02	-	(29) ug/g
Acenaphthylene	0.02 ug/g	-	<0.02	<0.02	-	(0.17) ug/g
Anthracene	0.02 ug/g	-	<0.02	<0.02	-	(0.74) ug/g
Benzo [a] anthracene	0.02 ug/g	-	<0.02	<0.02	-	(0.63) ug/g
Benzo [a] pyrene	0.02 ug/g	-	<0.02	<0.02	-	(0.3) ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	<0.02	-	(0.78) ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	<0.02	-	(7.8) ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	<0.02	-	(0.78) ug/g
Chrysene	0.02 ug/g	-	<0.02	<0.02	-	(7.8) ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	<0.02	-	(0.1) ug/g
Fluoranthene	0.02 ug/g	-	<0.02	<0.02	-	(0.69) ug/g
Fluorene	0.02 ug/g	-	<0.02	<0.02	-	(69) ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	<0.02	-	(0.48) ug/g

Report Date: 26-Oct-2021
Order Date: 7-Oct-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

	Client ID:		Sample Date:		Sample ID:		Matrix:	MDL/Units			Criteria:
	MW206-1A	MW206-1B	BH201-1	BH201-2B	2141488-18	2141488-19					
1-Methylnaphthalene	-	<0.02	<0.02	-	-	-	Soil	0.02 ug/g	<0.02	-	ug/g (3.4)
2-Methylnaphthalene	-	<0.02	<0.02	-	-	-	Soil	0.02 ug/g	<0.02	-	ug/g (3.4)
Methylnaphthalene (1&2)	-	<0.03	<0.03	-	-	-	Soil	0.03 ug/g	<0.03	-	ug/g (3.4)
Naphthalene	-	<0.01	<0.01	-	-	-	Soil	0.01 ug/g	<0.01	-	ug/g (0.75)
Phenanthrene	-	<0.02	<0.02	-	-	-	Soil	0.02 ug/g	<0.02	-	ug/g (7.8)
Pyrene	-	<0.02	<0.02	-	-	-	Soil	0.02 ug/g	<0.02	-	ug/g (78)
2-Fluorobiphenyl	-	92.4%	91.8%	-	-	-	Soil	Surrogate	91.8%	-	
Terphenyl-d14	-	101%	99.4%	-	-	-	Soil	Surrogate	99.4%	-	

Client ID: Sample Date: Sample ID: Matrix:	Field Blank	-	-	-	-
	05-Oct-2021	-	-	-	-
	2141488-23	-	-	-	-
	Soil	-	-	-	-
MDL/Units					

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics					
% Solids	0.1 % by Wt.				
Volatiles					
Acetone	0.50 ug/g	-	-	-	(28) ug/g
Benzene	0.02 ug/g	-	-	-	(0.17) ug/g
Bromodichloromethane	0.05 ug/g	-	-	-	(1.9) ug/g
Bromoform	0.05 ug/g	-	-	-	(0.26) ug/g
Bromomethane	0.05 ug/g	-	-	-	(0.05) ug/g
Carbon Tetrachloride	0.05 ug/g	-	-	-	(0.12) ug/g
Chlorobenzene	0.05 ug/g	-	-	-	(2.7) ug/g
Chloroform	0.05 ug/g	-	-	-	(0.18) ug/g
Dibromochloromethane	0.05 ug/g	-	-	-	(2.9) ug/g
Dichlorodifluoromethane	0.05 ug/g	-	-	-	(25) ug/g
1,2-Dichlorobenzene	0.05 ug/g	-	-	-	(1.7) ug/g
1,3-Dichlorobenzene	0.05 ug/g	-	-	-	(6) ug/g
1,4-Dichlorobenzene	0.05 ug/g	-	-	-	(0.097) ug/g
1,1-Dichloroethane	0.05 ug/g	-	-	-	(0.6) ug/g
1,2-Dichloroethane	0.05 ug/g	-	-	-	(0.05) ug/g
1,1-Dichloroethylene	0.05 ug/g	-	-	-	(0.05) ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	-	-	-	(2.5) ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	-	-	-	(0.75) ug/g
1,2-Dichloropropane	0.05 ug/g	-	-	-	(0.085) ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	-	-	-	
trans-1,3-Dichloropropylene	0.05 ug/g	-	-	-	

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 26-Oct-2021
Order Date: 7-Oct-2021
Project Description: CT2694.03

	Client ID:		Field Blank							Criteria:
	Sample Date:	Sample ID:								
	Matrix:	MDL/Units								
1,3-Dichloropropene, total	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(0.081) ug/g
Ethylbenzene	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(1.6) ug/g
Ethylene dibromide (dibromoethane)	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(0.05) ug/g
Hexane	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(34) ug/g
Methyl Ethyl Ketone (2-Butanone)	05-Oct-2021	2141488-23	<0.50	-	-	-	-	-	-	(44) ug/g
Methyl Isobutyl Ketone	05-Oct-2021	2141488-23	<0.50	-	-	-	-	-	-	(4.3) ug/g
Methyl tert-butyl ether	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(1.4) ug/g
Methylene Chloride	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(0.96) ug/g
Styrene	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(2.2) ug/g
1,1,1,2-Tetrachloroethane	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(0.05) ug/g
1,1,2,2-Tetrachloroethane	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(0.05) ug/g
Tetrachloroethylene	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(2.3) ug/g
Toluene	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(6) ug/g
1,1,1-Trichloroethane	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(3.4) ug/g
1,1,2-Trichloroethane	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(0.05) ug/g
Trichloroethylene	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(0.52) ug/g
Trichlorofluoromethane	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(5.8) ug/g
Vinyl chloride	05-Oct-2021	2141488-23	<0.02	-	-	-	-	-	-	(0.022) ug/g
m,p-Xylenes	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	
o-Xylene	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	
Xylenes, total	05-Oct-2021	2141488-23	<0.05	-	-	-	-	-	-	(25) ug/g
4-Bromofluorobenzene	05-Oct-2021	2141488-23	105%	-	-	-	-	-	-	
Dibromofluoromethane	05-Oct-2021	2141488-23	94.6%	-	-	-	-	-	-	
Toluene-d8	05-Oct-2021	2141488-23	104%	-	-	-	-	-	-	

Report Date: 26-Oct-2021
Order Date: 7-Oct-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Client ID:	Field Blank	-	-	-	-	Criteria:
Sample Date:	05-Oct-2021	-	-	-	-	Reg 153/04 (2011)-Table 2 Residential
Sample ID:	2141488-23	-	-	-	-	
Matrix:	Soil	-	-	-	-	
MDL/Units						
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	(65) ug/g

Hydrocarbons

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	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					
F4G-sg PHCs (gravimetric)	ND	50	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					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.165		ug/g	82.8	50-140			
Surrogate: Terphenyl-d14	0.217		ug/g	108	50-140			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	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: 4-Bromofluorobenzene	8.41		ug/g	105	50-140			
Surrogate: Dibromofluoromethane	7.45		ug/g	93.2	50-140			
Surrogate: Toluene-d8	8.45		ug/g	106	50-140			
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	8.30		ug/g	104	50-140			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
General Inorganics							
Conductivity	537	5	uS/cm	536		5	
Cyanide, free	ND	0.03	ug/g	ND	NC	35	
pH	7.48	0.05	pH Units	7.45	0.4	10	
Hydrocarbons							
F-1 PHCs (C6-C10)	ND	7	ug/g	ND	NC	40	
F-2 PHCs (C10-C16)	ND	4	ug/g	ND	NC	30	
F-3 PHCs (C16-C34)	ND	8	ug/g	ND	NC	30	
F-4 PHCs (C34-C50)	ND	6	ug/g	ND	NC	30	
F-4G-sg PHCs (gravimetric)	640	50	ug/g	574	10.9	30	
Metals							
Antimony	ND	1.0	ug/g	ND	NC	30	
Arsenic	3.4	1.0	ug/g	3.3	1.5	30	
Barium	104	1.0	ug/g	110	5.4	30	
Beryllium	0.8	0.5	ug/g	0.7	5.4	30	
Boron, available	0.96	0.5	ug/g	0.82	16.1	35	
Boron	21.1	5.0	ug/g	19.8	6.3	30	
Cadmium	ND	0.5	ug/g	ND	NC	30	
Chromium (VI)	ND	0.2	ug/g	ND	NC	35	
Chromium	22.1	5.0	ug/g	22.0	0.5	30	
Cobalt	8.9	1.0	ug/g	9.0	0.7	30	
Copper	16.7	5.0	ug/g	16.8	0.7	30	
Lead	7.5	1.0	ug/g	7.6	1.3	30	
Mercury	ND	0.1	ug/g	ND	NC	30	
Molybdenum	ND	1.0	ug/g	ND	NC	30	
Nickel	21.4	5.0	ug/g	21.9	2.3	30	
Selenium	1.3	1.0	ug/g	ND	NC	30	
Silver	0.3	0.3	ug/g	ND	NC	30	
Thallium	ND	1.0	ug/g	ND	NC	30	
Uranium	1.2	1.0	ug/g	ND	NC	30	
Vanadium	29.6	10.0	ug/g	30.6	3.1	30	
Zinc	48.4	20.0	ug/g	49.5	2.1	30	
Physical Characteristics							
% Solids	91.2	0.1	% by Wt.	90.5	0.7	25	
Semi-Volatiles							
Acenaphthene	ND	0.02	ug/g	ND	NC	40	
Acenaphthylene	ND	0.02	ug/g	ND	NC	40	
Anthracene	ND	0.02	ug/g	ND	NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND	NC	40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	0.184		ug/g		87.4	50-140			
Surrogate: Terphenyl-d14	0.223		ug/g		106	50-140			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-Hexane	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	6.65		ug/g		106	50-140			
Surrogate: Dibromofluoromethane	5.92		ug/g		94.0	50-140			
Surrogate: Toluene-d8	6.65		ug/g		106	50-140			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	6.40		ug/g		104	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
General Inorganics							
Cyanide, free	0.312	0.03	ug/g	ND	93.6	70-130	
Hydrocarbons							
F1 PHCs (C6-C10)	75	7	ug/g	ND	106	80-120	
F2 PHCs (C10-C16)	99	4	ug/g	ND	111	60-140	
F3 PHCs (C16-C34)	166	8	ug/g	ND	83.1	60-140	
F4 PHCs (C34-C50)	139	6	ug/g	ND	96.6	60-140	
F4-G-sg PHCs (gravimetric)	880	50	ug/g	ND	88.0	80-120	
Metals							
Antimony	132	1.0	ug/g	ND	105	70-130	
Arsenic	135	1.0	ug/g	3.3	106	70-130	
Barium	240	1.0	ug/g	110	104	70-130	
Beryllium	131	0.5	ug/g	0.7	104	70-130	
Boron, available	4.50	0.5	ug/g	ND	90.0	70-122	
Boron	147	5.0	ug/g	19.8	101	70-130	
Cadmium	124	0.5	ug/g	ND	98.9	70-130	
Chromium (VI)	4.2	0.2	ug/g	ND	84.5	70-130	
Chromium	144	5.0	ug/g	22.0	97.4	70-130	
Cobalt	130	1.0	ug/g	9.0	96.7	70-130	
Copper	139	5.0	ug/g	16.8	97.8	70-130	
Lead	125	1.0	ug/g	7.6	93.6	70-130	
Mercury	1.48	0.1	ug/g	ND	98.8	70-130	
Molybdenum	126	1.0	ug/g	ND	101	70-130	
Nickel	142	5.0	ug/g	21.9	96.0	70-130	
Selenium	126	1.0	ug/g	ND	100	70-130	
Silver	113	0.3	ug/g	ND	90.5	70-130	
Thallium	118	1.0	ug/g	ND	94.7	70-130	
Uranium	120	1.0	ug/g	ND	95.6	70-130	
Vanadium	156	10.0	ug/g	30.6	100	70-130	
Zinc	175	20.0	ug/g	49.5	100	70-130	
Semi-Volatiles							
Acenaphthene	0.110	0.02	ug/g	ND	104	50-140	
Acenaphthylene	0.101	0.02	ug/g	ND	95.3	50-140	
Anthracene	0.112	0.02	ug/g	ND	106	50-140	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Benzo [a] anthracene	0.107	0.02	ug/g	ND	101	50-140	
Benzo [a] pyrene	0.131	0.02	ug/g	ND	124	50-140	
Benzo [b] fluoranthene	0.126	0.02	ug/g	ND	119	50-140	
Benzo [g,h,i] perylene	0.130	0.02	ug/g	ND	123	50-140	
Benzo [k] fluoranthene	0.126	0.02	ug/g	ND	120	50-140	
Chrysene	0.118	0.02	ug/g	ND	112	50-140	
Dibenzo [a,h] anthracene	0.115	0.02	ug/g	ND	109	50-140	
Fluoranthene	0.144	0.02	ug/g	ND	136	50-140	
Fluorene	0.123	0.02	ug/g	ND	116	50-140	
Indeno [1,2,3-cd] pyrene	0.126	0.02	ug/g	ND	119	50-140	
1-Methylnaphthalene	0.111	0.02	ug/g	ND	105	50-140	
2-Methylnaphthalene	0.106	0.02	ug/g	ND	100	50-140	
Naphthalene	0.097	0.01	ug/g	ND	92.3	50-140	
Phenanthrene	0.124	0.02	ug/g	ND	118	50-140	
Pyrene	0.114	0.02	ug/g	ND	108	50-140	
Surrogate: 2-Fluorobiphenyl	0.201		ug/g		95.7	50-140	
Surrogate: Terphenyl-d14	0.217		ug/g		103	50-140	
Volatiles							
Acetone	11.4	0.50	ug/g	ND	117	50-140	
Benzene	4.26	0.02	ug/g	ND	106	60-130	
Bromodichloromethane	4.27	0.05	ug/g	ND	106	60-130	
Bromoform	4.37	0.05	ug/g	ND	109	60-130	
Bromomethane	3.25	0.05	ug/g	ND	81.2	50-140	
Carbon Tetrachloride	4.21	0.05	ug/g	ND	105	60-130	
Chlorobenzene	4.26	0.05	ug/g	ND	106	60-130	
Chloroform	3.88	0.05	ug/g	ND	96.6	60-130	
Dibromochloromethane	4.28	0.05	ug/g	ND	107	60-130	
Dichlorodifluoromethane	4.12	0.05	ug/g	ND	103	50-140	
1,2-Dichlorobenzene	4.18	0.05	ug/g	ND	105	60-130	
1,3-Dichlorobenzene	4.18	0.05	ug/g	ND	105	60-130	
1,4-Dichlorobenzene	4.19	0.05	ug/g	ND	104	60-130	
1,1-Dichloroethane	4.26	0.05	ug/g	ND	107	60-130	
1,2-Dichloroethane	4.29	0.05	ug/g	ND	107	60-130	
1,1-Dichloroethylene	4.75	0.05	ug/g	ND	119	60-130	
cis-1,2-Dichloroethylene	4.25	0.05	ug/g	ND	106	60-130	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
trans-1,2-Dichloroethylene	4.15	0.05	ug/g	ND	103	60-130			
1,2-Dichloropropane	4.29	0.05	ug/g	ND	107	60-130			
cis-1,3-Dichloropropylene	4.20	0.05	ug/g	ND	105	60-130			
trans-1,3-Dichloropropylene	4.22	0.05	ug/g	ND	105	60-130			
Ethylbenzene	4.29	0.05	ug/g	ND	107	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	4.29	0.05	ug/g	ND	107	60-130			
Hexane	4.15	0.05	ug/g	ND	104	60-130			
Methyl Ethyl Ketone (2-Butanone)	10.2	0.50	ug/g	ND	99.4	50-140			
Methyl Isobutyl Ketone	10.4	0.50	ug/g	ND	107	50-140			
Methyl tert-butyl ether	10.5	0.05	ug/g	ND	105	50-140			
Methylene Chloride	4.76	0.05	ug/g	ND	118	60-130			
Styrene	4.23	0.05	ug/g	ND	105	60-130			
1,1,1,2-Tetrachloroethane	4.22	0.05	ug/g	ND	105	60-130			
1,1,2,2-Tetrachloroethane	4.20	0.05	ug/g	ND	104	60-130			
Tetrachloroethylene	4.31	0.05	ug/g	ND	107	60-130			
Toluene	4.30	0.05	ug/g	ND	108	60-130			
1,1,1-Trichloroethane	4.22	0.05	ug/g	ND	105	60-130			
1,1,2-Trichloroethane	4.32	0.05	ug/g	ND	108	60-130			
Trichloroethylene	4.23	0.05	ug/g	ND	105	60-130			
Trichlorofluoromethane	4.69	0.05	ug/g	ND	117	50-140			
Vinyl chloride	4.11	0.02	ug/g	ND	103	50-140			
m,p-Xylenes	8.42	0.05	ug/g	ND	105	60-130			
o-Xylene	4.21	0.05	ug/g	ND	105	60-130			
Surrogate: 4-Bromofluorobenzene	8.00		ug/g		100	50-140			
Surrogate: Dibromofluoromethane	8.23		ug/g		103	50-140			
Surrogate: Toluene-d8	7.76		ug/g		97.0	50-140			
Benzene	4.95	0.02	ug/g	ND	123	60-130			
Ethylbenzene	4.87	0.05	ug/g	ND	121	60-130			
Toluene	4.95	0.05	ug/g	ND	124	60-130			
m,p-Xylenes	9.70	0.05	ug/g	ND	121	60-130			
o-Xylene	4.86	0.05	ug/g	ND	121	60-130			
Surrogate: Toluene-d8	7.66		ug/g		95.8	50-140			

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 26-Oct-2021

Order Date: 7-Oct-2021

Project Description: CT2694.03

Qualifier Notes:

Login Qualifiers :

Sample - One or more parameter received past hold time - REG 153: PHC F1 to F4 + VOCs
Applies to samples: BH204-1, BH205-1

Sample Qualifiers :

1 : This analysis was conducted after the accepted holding time had been exceeded.

Sample Data Revisions

None

Work Order Revisions / Comments:

COC missing analysis

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/Solid results are reported on a dry weight basis unless otherwise indicated

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.

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.



Parcel Order Number
(Lab Use Only)
2141448

Chain Of Custody
(Lab Use Only)
No 53221

Client Name: Terrapex Environmental Ltd
 Contact Name: Sara Sutherland
 Address: 90 Scarsdale Rd
 Toronto ON M8B 2R7
 Telephone: 416-529-9215

Project Ref: CT2694.03
 Quote #: 50
 PO #: S. Sutherland@terrapex.com
 Email: S. Sutherland@terrapex.com

Page 1 of 3
 Turnaround Time
 1 day
 2 day
 Regular
 Date Required:

Regulation: 153/04
 Table 1 Res/Tank Med/Line PACO
 Table 2 Ind/Comm Course COME MISA
 Table 3 Agri/Other SU - San SU - Storm
 Table Mun:
 For RSC: Yes No

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Required Analysis
				Date	Time	
1 MW203-1B	S	-	1	Oct 5/21	8:45am	PH, VOCs, BTEX, PAHs & Inorganics
2 MW203-2	S	-	1	8:50am	8:50am	PH, VOCs, BTEX, PAHs & Inorganics
3 MW203-4	S	-	2	9:00am	9:00am	PH, VOCs, BTEX, PAHs & Inorganics
4 MW203-7	S	-	3	9:40 am	9:40 am	PH, VOCs, BTEX, PAHs & Inorganics
5 MW203-8	S	-	3	9:45am	9:45am	PH, VOCs, BTEX, PAHs & Inorganics
6 MW2002	S	-	3	9:40am	9:40am	PH, VOCs, BTEX, PAHs & Inorganics
7 BH204-1	S	-	3	Oct 5/21	10:50am	PH, VOCs, BTEX, PAHs & Inorganics
8 BH204-2	S	-	2	10:55am	10:55am	PH, VOCs, BTEX, PAHs & Inorganics
9 BH205-1	S	-	2	1:25pm	1:25pm	PH, VOCs, BTEX, PAHs & Inorganics
10 BH205-2	S	-	2	1:30pm	1:30pm	PH, VOCs, BTEX, PAHs & Inorganics

Method of Delivery: FAB/EP
 Verified By: BB
 Date/Time: 08/10/2021 13:28
 Date/Time: 08/10/21 14:00
 pH Verified:
 Temperature: 11.7 °C
 Received By Driver/Depot: SB
 Date/Time: 10/07/2021 14:45
 Date/Time: 08/10/2021 13:28
 Temperature: 4.2 °C
 Date/Time: Oct 6/21 2:50pm
 Date/Time: 11-7 °C

Parcel ID: 2141488



Chain Of Custody (Lab Use Only) No: 53222

Parcel Order Number (Lab Use Only) 2141448

Client Name: Terrapex Environmental Ltd
 Contact Name: Sara Sutherland
 Address: 90 Saunders Rd, Toronto ON M3B 2R7
 Telephone: 416-529-9215

Project Ref: CT2694.03
 Quote #: S.O.
 PO #: S. Sutherland@terrapex.com
 Email: S. Sutherland@terrapex.com

Turnaround Time: 1 day 2 day 3 day Regular
 Date Required:

Sample ID/Location Name	Matrix	# of Containers	Sample Taken		Required Analysis
			Air Volume	Time	
1 BH205-5	S	2	1:45pm	1:45pm	PH, VOCs, PHEs, BTEX, Metals, Organics, PHTs
2 BH206	S	1	1:30pm	1:30pm	HOLD
3 BH202-1	S	2	4:25pm	4:25pm	
4 BH202-3A	S	2	12:45pm	12:45pm	
5 BH202-6	S	3	1:15pm	1:15pm	
6 BH202-7	S	2	1:20pm	1:20pm	
7 BH2001	S	2	1:15pm	1:15pm	
8 MW206-1A	S	2	3:50pm	3:50pm	
9 MW206-1B	S	2	3:55pm	3:55pm	
10 MW206-2	S	2	4:05pm	4:05pm	

Method of Delivery: LABEX

Received at Lab: BB
 Date/Time: 08/10/2021 13:25
 Temperature: 11.7 °C

Received By Driver/Depot: RC
 Date/Time: 10/09/2021 14:45
 Temperature: 4.2 °C

Requested By (Sign): Sabrina Jhoni
 Date/Time: Oct 6/21 2:50am

Requested By (Print): S Jhoni

Verified By: BS
 Date/Time: 08/10/21 13:25

Chain of Custody (Bank): xxx
 Revision: 3.0



Parcel Order Number
(Lab Use Only)
2141448

Chain Of Custody
(Lab Use Only)
No: 53223

Client Name: Terrapex Environmental
Contact Name: Sara Sutherland
Address: 90 Spadina Ave Rd, Toronto ON M5S 2R7
Telephone: 416-529-9215

Project Ref: CT2614.03
Quote #: S.O.
PO #:
E-mail: Sara.Sutherland@terrapex.com

Page 3 of 3
Turnaround Time
 1 day 3 day
 2 day Regular
Date Required:

Sample ID/Location Name	Matrix	Air Volume	N of Containers	Sample Taken		Required Analysis
				Date	Time	
1 BH201-1	S	3	3	Oct 4/21	12:35PM	PATHs Metals & Organics PHCs VOCs F1 HOLD
2 BH201-2A	S	2	2	→	12:40PM	
3 BH201-2B	S	1	1			
4 Field Blank	S					
5						
6						
7						
8						
9						
10						

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

Regulation 153/04
 Table 1 Res/Park Med/Fine REG SSB PWCO
 Table 2 Ind/Comm Coarse OCME MSA
 Table 3 Agri/Other SV - Jan SU - Storm
 Table Mun:
 For RSC: Yes No Other:

Received By: Sabine Juhan
 Date/Time: Oct 6/21 2:50pm
 Temperature: 4.2 °C
 Received Lab: BB
 Date/Time: Oct 10/2021 13:25
 Temperature: 11.7 °C
 Date/Time: Oct 10/2021 14:00
 pH / Vol %: By:

Method of Delivery: PARCEL EX



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 53172

Report Date: 25-Nov-2021
Order Date: 21-Oct-2021

Revised Report
Order #: 2143465

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

Paracel ID	Client ID
2143465-01	HA101-1
2143465-03	HA102-1
2143465-04	HA102-2

Alex Enfield, MSc
Lab Manager

Approved By:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	26-Oct-21	26-Oct-21
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	25-Oct-21	27-Oct-21
Conductivity	MOE E3138 - probe @25 °C, water ext	27-Oct-21	27-Oct-21
Cyanide, free	MOE E3015 - Auto Colour, water extraction	25-Oct-21	25-Oct-21
Mercury by CVAA	EPA 7471B - CVAA, digestion	26-Oct-21	27-Oct-21
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	26-Oct-21	26-Oct-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	26-Oct-21	27-Oct-21
REG 153: pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	26-Oct-21	27-Oct-21
SAR	Calculated	27-Oct-21	27-Oct-21
Solids, %	Gravimetric, calculation	29-Oct-21	1-Nov-21

Summary of Exceedances

(If this page is blank then there are no exceedances)
Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets, (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Residential
HA102-1	Nickel	5.0 ug/g	150	(130) ug/g
HA102-1	Benzo [a] pyrene	0.02 ug/g	0.45	(0.3) ug/g
HA102-1	Dibenzo [a,h] anthracene	0.02 ug/g	0.35	(0.1) ug/g
HA102-1	Fluoranthene	0.02 ug/g	0.79	(0.69) ug/g
HA102-1	Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.66	(0.48) ug/g
HA102-2	Nickel	5.0 ug/g	190	(130) ug/g
HA102-2	Benzo [a] pyrene	0.02 ug/g	0.38	(0.3) ug/g
HA102-2	Fluoranthene	0.02 ug/g	0.88	(0.69) ug/g

Client ID:	Sample Date:	Sample ID:	Matrix:	Criteria:				
				MDL/Units	HA101-1	HA102-1	HA102-2	Reg 153/04 (2011)-Table 2 Residential
18-Oct-2021	18-Oct-2021	18-Oct-2021	Soil	82.6	90.9	92.0	-	-
2143465-01	2143465-03	2143465-04	Soil					

Physical Characteristics

% Solids	0.1 % by Wt.	82.6	90.9	92.0	-	
SAR	0.01 N/A	0.39	0.09	-	-	(5) N/A
Conductivity	5 uS/cm	260	131	-	-	(0.7) mS/cm
Cyanide, free	0.03 ug/g	<0.03	<0.03	-	-	(0.051) ug/g
pH	0.05 pH Units	7.38	7.66	-	-	(5 - 9) pH units

Metals

Antimony	1.0 ug/g	<1.0	<1.0	<1.0	-	(7.5) ug/g
Arsenic	1.0 ug/g	2.2	2.6	3.7	-	(18) ug/g
Barium	1.0 ug/g	54.3	34.1	43.6	-	(390) ug/g
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	-	(5) ug/g
Boron	5.0 ug/g	5.3	5.6	8.0	-	(120) ug/g
Boron, available	0.5 ug/g	1.2	0.7	-	-	(1.5) ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	0.7	-	(1.2) ug/g
Chromium	5.0 ug/g	11.7	13.3	19.3	-	(160) ug/g
Chromium (VI)	0.2 ug/g	<0.2	<0.2	-	-	(10) ug/g
Cobalt	1.0 ug/g	4.0	3.5	5.4	-	(22) ug/g
Copper	5.0 ug/g	9.4	27.0	43.4	-	(180) ug/g
Lead	1.0 ug/g	9.8	29.4	44.4	-	(120) ug/g
Mercury	0.1 ug/g	<0.1	<0.1	-	-	(1.8) ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	1.2	-	(6.9) ug/g
Nickel	5.0 ug/g	9.3	150	190	-	(130) ug/g

	Client ID:		HA101-1 18-Oct-2021 2143465-01 Soil	HA102-1 18-Oct-2021 2143465-03 Soil	HA102-2 18-Oct-2021 2143465-04 Soil	-	-	-	-	Criteria:
	Sample ID:	Sample Date:								
	Matrix:									
	MDL/Units									
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	1.3	-	-	-	-	(2.4) ug/g
Silver	0.3 ug/g	<0.3	<0.3	0.3	0.6	-	-	-	-	(25) ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-	-	-	(1) ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-	-	-	(23) ug/g
Vanadium	10.0 ug/g	18.4	18.4	15.3	19.3	-	-	-	-	(86) ug/g
Zinc	20.0 ug/g	34.6	34.6	169	231	-	-	-	-	(340) ug/g
Semi-Volatiles										
Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-	-	-	(29) ug/g
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-	-	-	(0.17) ug/g
Anthracene	0.02 ug/g	<0.02	<0.02	0.08	0.07	-	-	-	-	(0.74) ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	0.34	0.34	-	-	-	-	(0.63) ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	0.45	0.38	-	-	-	-	(0.3) ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	0.31	0.33	-	-	-	-	(0.78) ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	0.54	0.21	-	-	-	-	(7.8) ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	0.16	0.17	-	-	-	-	(0.78) ug/g
Chrysene	0.02 ug/g	<0.02	<0.02	0.31	0.33	-	-	-	-	(7.8) ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	0.35	0.05	-	-	-	-	(0.1) ug/g
Fluoranthene	0.02 ug/g	<0.02	<0.02	0.79	0.88	-	-	-	-	(0.69) ug/g
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-	-	-	(69) ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	0.66	0.23	-	-	-	-	(0.48) ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-	-	-	(3.4) ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-	-	-	(3.4) ug/g
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	-	-	-	-	(3.4) ug/g

	Client ID:		HA101-1 18-Oct-2021 2143465-01 Soil	HA102-1 18-Oct-2021 2143465-03 Soil	HA102-2 18-Oct-2021 2143465-04 Soil	-	-	-	-	Criteria:
	Sample Date:	Sample ID:								
Naphthalene			<0.01	<0.01	<0.01					(0.75) ug/g
Phenanthrene			<0.02	0.26	0.32					(7.8) ug/g
Pyrene			<0.02	0.48	0.54					(78) ug/g
2-Fluorobiphenyl			82.2%	89.8%	90.7%					
Terphenyl-d14			73.4%	73.0%	82.3%					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Cyanide, free	ND	0.03	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					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	RPD Limit	Notes
2-Methylnaphthalene	ND	0.02	ug/g						
Methylnaphthalene (1&2)	ND	0.03	ug/g						
Naphthalene	ND	0.01	ug/g						
Phenanthrene	ND	0.02	ug/g						
Pyrene	ND	0.02	ug/g						
Surrogate: 2-Fluorobiphenyl	0.135		ugg		67.9	50-140			
Surrogate: Terphenyl-d14	0.208		ugg		104	50-140			

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
General Inorganics								
SAR	2.58	0.01	N/A	1.95			30	
Conductivity	321	5	uS/cm	306			5	
Cyanide, free	ND	0.03	ug/g	ND			35	
pH	7.49	0.05	pH Units	7.57			10	
Metals								
Antimony	ND	1.0	ug/g	ND			30	
Arsenic	4.6	1.0	ug/g	3.8			20.5	
Barium	34.6	1.0	ug/g	30.1			13.8	
Beryllium	ND	0.5	ug/g	ND			30	
Boron, available	ND	0.5	ug/g	ND			35	
Boron	9.3	5.0	ug/g	6.9			29.9	
Cadmium	ND	0.5	ug/g	ND			30	
Chromium (VI)	ND	0.2	ug/g	ND			35	
Chromium	8.7	5.0	ug/g	7.6			30	
Cobalt	3.6	1.0	ug/g	3.1			30	
Copper	26.9	5.0	ug/g	24.4			30	
Lead	31.9	1.0	ug/g	40.7			30	
Mercury	ND	0.1	ug/g	ND			30	
Molybdenum	1.2	1.0	ug/g	ND			30	
Nickel	8.3	5.0	ug/g	7.1			30	
Selenium	ND	1.0	ug/g	ND			30	
Silver	ND	0.3	ug/g	ND			30	
Thallium	ND	1.0	ug/g	ND			30	
Uranium	ND	1.0	ug/g	ND			30	
Vanadium	12.9	10.0	ug/g	11.5			30	
Zinc	122	20.0	ug/g	139			30	
Physical Characteristics								
% Solids	81.5	0.1	% by Wt.	82.6			25	
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g	ND			40	
Acenaphthylene	ND	0.02	ug/g	ND			40	
Anthracene	ND	0.02	ug/g	ND			40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			40	
Chrysene	ND	0.02	ug/g	ND			40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	0.178		ug/g		77.2	50-140			
Surrogate: Terphenyl-014	0.241		ug/g		104	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
General Inorganics								
Cyanide, free	0.203	0.03	ug/g	ND	53.4	70-130		QM-07
Metals								
Antimony	139	1.0	ug/g	ND	112	70-130		
Arsenic	141	1.0	ug/g	3.8	109	70-130		
Barium	173	1.0	ug/g	30.1	115	70-130		
Beryllium	125	0.5	ug/g	ND	99.8	70-130		
Boron, available	4.56	0.5	ug/g	ND	91.1	70-122		
Boron	130	5.0	ug/g	6.9	98.8	70-130		
Cadmium	126	0.5	ug/g	ND	100	70-130		
Chromium (VI)	4.1	0.2	ug/g	ND	73.0	70-130		
Chromium	138	5.0	ug/g	7.6	105	70-130		
Cobalt	129	1.0	ug/g	3.1	101	70-130		
Copper	153	5.0	ug/g	24.4	103	70-130		
Lead	139	1.0	ug/g	40.7	78.9	70-130		
Mercury	1.66	0.1	ug/g	ND	111	70-130		
Molybdenum	128	1.0	ug/g	ND	103	70-130		
Nickel	134	5.0	ug/g	7.1	102	70-130		
Selenium	122	1.0	ug/g	ND	97.3	70-130		
Silver	105	0.3	ug/g	ND	83.8	70-130		
Thallium	121	1.0	ug/g	ND	96.5	70-130		
Uranium	122	1.0	ug/g	ND	98.0	70-130		
Vanadium	145	10.0	ug/g	11.5	107	70-130		
Zinc	257	20.0	ug/g	139	94.7	70-130		
Semi-Volatiles								
Acenaphthene	0.116	0.02	ug/g	ND	100	50-140		
Acenaphthylene	0.123	0.02	ug/g	ND	107	50-140		
Anthracene	0.129	0.02	ug/g	ND	111	50-140		
Benzo [a] anthracene	0.132	0.02	ug/g	ND	115	50-140		
Benzo [a] pyrene	0.158	0.02	ug/g	ND	137	50-140		
Benzo [b] fluoranthene	0.113	0.02	ug/g	ND	97.7	50-140		QM-05
Benzo [g,h,i] perylene	0.286	0.02	ug/g	ND	247	50-140		
Benzo [k] fluoranthene	0.098	0.02	ug/g	ND	84.5	50-140		

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Chrysene	0.116	0.02	ug/g	ND	100	50-140		
Dibenzo [a,h] anthracene	0.373	0.02	ug/g	ND	323	50-140		QM-05
Fluoranthene	0.151	0.02	ug/g	ND	130	50-140		
Fluorene	0.142	0.02	ug/g	ND	123	50-140		
Indeno [1,2,3-cd] pyrene	0.299	0.02	ug/g	ND	258	50-140		QM-05
1-Methylnaphthalene	0.127	0.02	ug/g	ND	110	50-140		
2-Methylnaphthalene	0.117	0.02	ug/g	ND	101	50-140		
Naphthalene	0.111	0.01	ug/g	ND	95.9	50-140		
Phenanthrene	0.127	0.02	ug/g	ND	110	50-140		
Pyrene	0.104	0.02	ug/g	ND	89.6	50-140		
Surrogate: 2-Fluorobiphenyl	0.186		ugg		80.8	50-140		
Surrogate: Terphenyl-d14	0.173		ugg		74.8	50-140		

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 25-Nov-2021

Order Date: 21-Oct-2021

Project Description: CT2694.03

Qualifier Notes:

QC Qualifiers :

QM-05 : The spike recovery was outside acceptance limits for the matrix spike due to matrix interference.

QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

Sample Data Revisions

None

Work Order Revisions / Comments:

REVISION-1: This report includes an updated parameter list.

REVISION-2: This report includes an updated parameter list.

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/Solid results are reported on a dry weight basis unless otherwise indicated
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

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.



Parcel Order Number
(Lab Use Only)
2143465

Chain Of Custody
(Lab Use Only)
No 53172

Client Name: Tetrapep Environmental Ltd
 Contact Name: Suzanne Sutherland
 Address: 90 Scarsdale Rd, Toronto ON
M3B 2R7
 Telephone: _____
 Project Ref: CT2694-03
 Quote #: S10
 PO #: _____
 Email: S.Sutherland@tetrapex.com
 Turnaround Time: 1 day 3 day Regular
 Date Required: _____
 Page 1 of 1

Sample ID/Location Name	Regulation 153/04		Other Regulation		Matrix	Sample Taken		Required Analysis	
	Table 1 <input checked="" type="checkbox"/> Rec/Pink <input checked="" type="checkbox"/> Met/Free	Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse	REG 558 <input type="checkbox"/> PWQO	CCME <input type="checkbox"/> MISA		Air Volume	# of Containers		Date
1 HA101-1					S	1	04/18/21	3:15pm	Metals & Organics
2 HA101-2					S	1	3:20pm		PAHs
3 HA102-1					S	1	3:25pm		Metals & Organics
4 HA102-2					S	1	3:30pm		PAHs
5									
6									
7									
8									
9									
10									

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

Method of Delivery: Tetrapep
 Verified By: AM
 Date/Time: 22/10/21 11:33
 pH Verified: By: _____

Received By (Sign): [Signature]
 Received at Lab: BB
 Date/Time: 10/21/2021 11:55
 Temperature: 2.6 °C

Received By (Print): Sabrina Juwari
 Date/Time: 02/20/21 10:10am
 Temperature: 8.3 °C



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT26 94.03
Custody: 59171, 59083

Report Date: 3-Nov-2021
Order Date: 29-Oct-2021

Order #: 2144624

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

Paracel ID	Client ID
2144624-01	HA201-1
2144624-02	HA202-1
2144624-03	HA203-1
2144624-04	HA204-1

Approved By:

Milan Ralitsch, PhD
Senior Technical Manager

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Report Date: 03-Nov-2021
 Order Date: 29-Oct-2021
 Project Description: CT2694.03

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	2-Nov-21	2-Nov-21
Solids, %	Gravimetric, calculation	1-Nov-21	2-Nov-21

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 03-Nov-2021
 Order Date: 29-Oct-2021
Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets, (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Residential
-----------	---------	-------------	--------	---------------------------------------

Client ID:	HA201-1	HA202-1	HA203-1	HA204-1
Sample Date:	27-Oct-2021	27-Oct-2021	27-Oct-2021	27-Oct-2021
Sample ID:	2144624-01	2144624-02	2144624-03	2144624-04
Matrix:	Soil	Soil	Soil	Soil
MDL/Units				

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics

% Solids	77.7	80.7	80.6	81.6
----------	------	------	------	------

Metals

Boron, available	1.1	1.5	1.2	1.2
				(1.5) ug/g

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
---------	--------	-----------------	-------	---------------	------------	-----------	-------

Metals

Boron, available ND 0.5 ug/g

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
---------	--------	-----------------	-------	---------------	------------	-----------	-------

Metals

Boron, available

Physical Characteristics

% Solids

ND	0.5	ug/g	ND	NC	35		
95.7	0.1	% by Wt.	95.6	0.1	25		

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
---------	--------	-----------------	-------	---------------	------------	-----------	-------

Metals

Boron, available 3.92 0.5 ug/g ND 78.4 70-122



Order #: 2144624

Report Date: 03-Nov-2021
Order Date: 29-Oct-2021
Project Description: CT2694.03

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

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/Solid results are reported on a dry weight basis unless otherwise indicated
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

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.



Client Name: **Terapex Environmental Ltd**
 Contact Name: **Sara Sutherland**
 Address: **90 Scarsdale Rd, Toronto ON**
 Telephone: _____

Project Ref: **CT2694.03**
 Cont #: **S/O**
 PO #: _____
 E-mail: **S.sutherland@terapex.com**

Page **1** of **2**
 Turnaround Time: 1 day 3 day Regular
 Date Required: _____

Sample ID/Location Name	Regulation 153/04		Other Regulation		Matrix	# of Containers	Sample Taken		Required Analysis
	Table 1	Table 2	Table 3	Table 4			Date	Time	
1 HA201-1	<input checked="" type="checkbox"/> Res/PstK	<input checked="" type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:00pm	ON HOLD
2 HA202-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:15pm	ON HOLD
3 HA203-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:30pm	ON HOLD
4 HA204-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:45pm	ON HOLD
5 HA205-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	4:00pm	ON HOLD
6 HA206-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	4:15pm	ON HOLD
7 HA207-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	4:30pm	ON HOLD
8 HA208-1	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	4:45pm	ON HOLD
9 HA201-2	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:10pm	ON HOLD
10 HA202-2	<input type="checkbox"/> Res/PstK	<input type="checkbox"/> Mid/Fine	<input type="checkbox"/> RES SSB	<input type="checkbox"/> FWOOD	S	1	Oct 27/21	3:20pm	ON HOLD

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

Method of Delivery: **RABEX**
 Verified By: **Am**
 Date/Time: **11/21 14:02**
 pH Verified:

Received By: **S/O**
 Date/Time: **10/29/2021 11:40**
 Temperature: **9.4** °C

Received at Lab: **BB**
 Date/Time: **01/11/2021**
 Temperature: **6.3** °C

Revision: 3.0
 Chain of Custody (Blank) .dtx



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59092

Report Date: 29-Nov-2021
Order Date: 23-Nov-2021

Order #: 2148186

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

Paracel ID 2148186-01
Client ID MW206-4

Alex Enfield, MSc
Lab Manager

Approved By:

Report Date: 29-Nov-2021
 Order Date: 23-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	25-Nov-21	26-Nov-21
Solids, %	Gravimetric, calculation	26-Nov-21	29-Nov-21

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 29-Nov-2021
 Order Date: 23-Nov-2021
Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets, (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 2 Residential
-----------	---------	-------------	--------	---------------------------------------

Physical Characteristics	Client ID:	MW206-4	-	-	-	-
	Sample Date:	05-Oct-2021	-	-	-	-
	Sample ID:	2148186-01	-	-	-	-
	Matrix:	Soil	-	-	-	-
	MDL/Units					
	% Solids	0.1 % by Wt.	-	-	-	-

Criteria:

Reg 153/04 (2011)-Table 2 Residential

Physical Characteristics	MDL/Units	0.1 % by Wt.	-	-	-	-
Semi-Volatiles						
Acenaphthene	0.02 ug/g	<0.02	-	-	-	(29) ug/g
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	(0.17) ug/g
Anthracene	0.02 ug/g	<0.02	-	-	-	(0.74) ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	(0.63) ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	(0.3) ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	(0.78) ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	(7.8) ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	(0.78) ug/g
Chrysene	0.02 ug/g	<0.02	-	-	-	(7.8) ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	(0.1) ug/g
Fluoranthene	0.02 ug/g	<0.02	-	-	-	(0.69) ug/g
Fluorene	0.02 ug/g	<0.02	-	-	-	(69) ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	(0.48) ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	(3.4) ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	(3.4) ug/g
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	-	-	-	(3.4) ug/g
Naphthalene	0.01 ug/g	<0.01	-	-	-	(0.75) ug/g
Phenanthrene	0.02 ug/g	<0.02	-	-	-	(7.8) ug/g
Pyrene	0.02 ug/g	<0.02	-	-	-	(78) ug/g
2-Fluorobiphenyl	Surrogate	85.3%	-	-	-	
Terphenyl-d14	Surrogate	78.2%	-	-	-	

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.160		ug/g	80.3	50-140			
Surrogate: Terphenyl-d14	0.177		ug/g	88.6	50-140			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Physical Characteristics									
% Solids	82.7	0.1	% by Wt.	83.7			1.3	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	0.029			NC	40	
Benzo [a] pyrene	0.024	0.02	ug/g	0.031			25.0	40	
Benzo [b] fluoranthene	0.023	0.02	ug/g	0.024			7.3	40	
Benzo [g,h,i] perylene	0.027	0.02	ug/g	0.026			2.8	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	0.026			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	0.047	0.02	ug/g	0.071			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.029	0.02	ug/g	0.030			4.2	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	0.027			NC	40	
Pyrene	0.034	0.02	ug/g	0.051			38.2	40	
Surrogate: 2-Fluorobiphenyl	0.215		ug/g		87.9	50-140			
Surrogate: Terphenyl-d14	0.205		ug/g		83.2	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Semi-Volatiles								
Acenaphthene	0.113	0.02	ug/g	ND	91.4	50-140		
Acenaphthylene	0.132	0.02	ug/g	ND	107	50-140		
Anthracene	0.133	0.02	ug/g	ND	108	50-140		
Benzo [a] anthracene	0.151	0.02	ug/g	0.029	99.5	50-140		
Benzo [a] pyrene	0.154	0.02	ug/g	0.031	100	50-140		
Benzo [b] fluoranthene	0.135	0.02	ug/g	0.024	90.0	50-140		
Benzo [g,h,i] perylene	0.144	0.02	ug/g	0.026	95.6	50-140		
Benzo [k] fluoranthene	0.118	0.02	ug/g	ND	95.8	50-140		
Chrysene	0.134	0.02	ug/g	0.026	87.8	50-140		
Dibenzo [a,h] anthracene	0.140	0.02	ug/g	ND	114	50-140		
Fluoranthene	0.180	0.02	ug/g	0.071	88.7	50-140		
Fluorene	0.120	0.02	ug/g	ND	97.8	50-140		
Indeno [1,2,3-cd] pyrene	0.167	0.02	ug/g	0.030	111	50-140		
1-Methylnaphthalene	0.138	0.02	ug/g	ND	112	50-140		
2-Methylnaphthalene	0.135	0.02	ug/g	ND	110	50-140		
Naphthalene	0.120	0.01	ug/g	ND	97.1	50-140		
Phenanthrene	0.144	0.02	ug/g	0.027	95.0	50-140		
Pyrene	0.160	0.02	ug/g	0.051	88.7	50-140		
Surrogate: 2-Fluorobiphenyl	0.216		ug/g		88.1	50-140		
Surrogate: Terphenyl-d14	0.204		ug/g		82.8	50-140		



Order #: 2148186

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 29-Nov-2021
Order Date: 23-Nov-2021
Project Description: CT2694.03

Qualifier Notes:

QC Qualifiers :

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/Solid results are reported on a dry weight basis unless otherwise indicated
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

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.



Client Name: Tenorex Environmental Ltd
 Contact Name: Sara Sutherland
 Address: 90 Seavale Rd. Toronto, ON
 Telephone: 416-529-9215
 Project Ref: CT-614.03
 Quote #: S.O.
 PO#: _____
 E-mail: S.sutherland@tenorex.com
 Page: 1 of 1
 Turnaround Time: 1 day 3 day Regular
 2 day
 Date Required: _____

Regulation LS3/04
 Table 1 Reg/Part Med/Fine REG 558 PM10
 Table 2 Inf/Comm Coarse COME MISA
 Table 3 Agri/Other SU - 3um SU - Storm
 Table _____
 For BSC: Yes No
 Other Regulation: _____
 Matrix Type: S (Soil/Sed.) GW (Ground Water)
 SW (Surface Water) SS (Storm/Sanitary Sewer)
 P (Paint) A (Air) O (Other)

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Required Analysis
				date	Time	
1 <u>MIN206-4</u>	<u>S</u>		<u>1</u>	<u>Oct 5, 2021</u>	<u>4:15 PM</u>	
2						
3						
4						
5						
6						
7						
8						
9						
10						

Method of Delivery: Rubber
 Verified By: _____
 Received By Driver/Depot: NO
 Date/Time: 11/23/2021 15:00 C
 Temperature: 3.2 C
 Received at Lab: C-LV
 Date/Time: NOV 24 21 11:34
 Temperature: 8.9 C
 Date/Time: 11/25/2021 16:45
 pH/Verifab: Br

Relinquished By (Sign): Mona Nayf
 Relinquished By (Print): Mona Nayf
 Date/Time: Nov 22 2021 / 4:00 PM
 Chain of Custody (Blank) x81
 Revision 3.0



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59096

Report Date: 3-Dec-2021
Order Date: 26-Nov-2021

Order #: 2149002

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

Paracel ID	Client ID
2149002-01	HA301-A
2149002-05	HA302-D
2149002-06	HA303-A
2149002-08	HA304-A
2149002-10	HA305-A

Miljan Ralitsch, PhD
Senior Technical Manager

Approved By:

Report Date: 03-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	2-Dec-21	3-Dec-21
PHC F1	CWS Tier 1 - P&T GC-FID	2-Dec-21	3-Dec-21
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	1-Dec-21	2-Dec-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	2-Dec-21	3-Dec-21
REG 153: VOCs by P&T GC-MS	EPA 8260 - P&T GC-MS	2-Dec-21	3-Dec-21
Solids, %	Gravimetric, calculation	2-Dec-21	3-Dec-21

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Report Date: 03-Dec-2021
 Order Date: 26-Nov-2021
Project Description: CT2694.03

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets, (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 1 Residential
-----------	---------	-------------	--------	---------------------------------------

Physical Characteristics	Client ID:				MDL/Units
	HA301-A	HA302-D	HA303-A	HA304-A	
	25-Nov-2021 2149002-01 Soil	25-Nov-2021 2149002-05 Soil	25-Nov-2021 2149002-06 Soil	25-Nov-2021 2149002-08 Soil	

Criteria:

Reg 153/04 (2011)-Table 1 Residential

	84.7	93.3	85.5	82.3
% Solids	84.7	93.3	85.5	82.3
Volatiles				
Acetone	0.50 ug/g	-	<0.50	<0.50
Benzene	0.02 ug/g	-	<0.02	<0.02
Bromodichloromethane	0.05 ug/g	-	<0.05	<0.05
Bromoform	0.05 ug/g	-	<0.05	<0.05
Bromomethane	0.05 ug/g	-	<0.05	<0.05
Carbon Tetrachloride	0.05 ug/g	-	<0.05	<0.05
Chlorobenzene	0.05 ug/g	-	<0.05	<0.05
Chloroform	0.05 ug/g	-	<0.05	<0.05
Dibromochloromethane	0.05 ug/g	-	<0.05	<0.05
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	<0.05
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05
1,1-Dichloroethane	0.05 ug/g	-	<0.05	<0.05
1,2-Dichloroethane	0.05 ug/g	-	<0.05	<0.05
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05
1,2-Dichloropropane	0.05 ug/g	-	<0.05	<0.05
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	<0.05

	Client ID:				Criteria:
	HA301-A	HA302-D	HA303-A	HA304-A	
	25-Nov-2021 2149002-01 Soil	25-Nov-2021 2149002-05 Soil	25-Nov-2021 2149002-06 Soil	25-Nov-2021 2149002-08 Soil	
Sample Date:	Sample ID:	Matrix:	MDL/Units	Reg 153/04 (2011)-Table 1 Residential	
trans-1,3-Dichloropropylene	<0.05	-	<0.05	<0.05	0.05 ug/g
1,3-Dichloropropene, total	<0.05	-	<0.05	<0.05	0.05 ug/g
Ethylbenzene	<0.05	-	<0.05	<0.05	0.05 ug/g
Ethylene dibromide (dibromoethane)	<0.05	-	<0.05	<0.05	0.05 ug/g
Hexane	<0.05	-	<0.05	<0.05	0.05 ug/g
Methyl Ethyl Ketone (2-Butanone)	<0.50	-	<0.50	<0.50	0.5 ug/g
Methyl Isobutyl Ketone	<0.50	-	<0.50	<0.50	0.5 ug/g
Methyl tert-butyl ether	<0.05	-	<0.05	<0.05	0.05 ug/g
Methylene Chloride	<0.05	-	<0.05	<0.05	0.05 ug/g
Styrene	<0.05	-	<0.05	<0.05	0.05 ug/g
1,1,1,2-Tetrachloroethane	<0.05	-	<0.05	<0.05	0.05 ug/g
1,1,2,2-Tetrachloroethane	<0.05	-	<0.05	<0.05	0.05 ug/g
Tetrachloroethylene	<0.05	-	<0.05	<0.05	0.05 ug/g
Toluene	<0.05	-	<0.05	<0.05	0.2 ug/g
1,1,1-Trichloroethane	<0.05	-	<0.05	<0.05	0.05 ug/g
1,1,2-Trichloroethane	<0.05	-	<0.05	<0.05	0.05 ug/g
Trichloroethylene	<0.05	-	<0.05	<0.05	0.05 ug/g
Trichlorofluoromethane	<0.05	-	<0.05	<0.05	0.25 ug/g
Vinyl chloride	<0.02	-	<0.02	<0.02	0.02 ug/g
m,p-Xylenes	<0.05	-	<0.05	<0.05	0.05 ug/g
o-Xylene	<0.05	-	<0.05	<0.05	0.05 ug/g
Xylenes, total	<0.05	-	<0.05	<0.05	0.05 ug/g
4-Bromofluorobenzene	86.6%	-	87.2%	87.5%	Surrogate

	MDL/Units	Client ID:				Criteria:
		HA301-A	HA302-D	HA303-A	HA304-A	
		25-Nov-2021 2149002-01 Soil	25-Nov-2021 2149002-05 Soil	25-Nov-2021 2149002-06 Soil	25-Nov-2021 2149002-08 Soil	
Dibromofluoromethane	Surrogate	77.1%	-	75.3%	75.7%	Reg 153/04 (2011)-Table 1 Residential
Toluene-d8	Surrogate	103%	-	104%	103%	
Benzene	0.02 ug/g	-	<0.02	-	-	0.02 ug/g
Ethylbenzene	0.05 ug/g	-	<0.05	-	-	0.05 ug/g
Toluene	0.05 ug/g	-	<0.05	-	-	0.2 ug/g
m,p-Xylenes	0.05 ug/g	-	<0.05	-	-	
o-Xylene	0.05 ug/g	-	<0.05	-	-	
Xylenes, total	0.05 ug/g	-	<0.05	-	-	0.05 ug/g
Toluene-d8	Surrogate	-	104%	-	-	
Hydrocarbons						
F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	25 ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	10 ug/g
F3 PHCs (C16-C34)	8 ug/g	<8	<8	<8	48	240 ug/g
F4 PHCs (C34-C50)	6 ug/g	<6	<6	<6	<6	120 ug/g
Semi-Volatiles						
Acenaphthene	0.02 ug/g	-	<0.02	-	-	0.072 ug/g
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	0.093 ug/g
Anthracene	0.02 ug/g	-	<0.02	-	-	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	0.36 ug/g
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	0.47 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	0.68 ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	0.48 ug/g
Chrysene	0.02 ug/g	-	<0.02	-	-	2.8 ug/g

	Client ID:				Criteria:
	HA301-A	HA302-D	HA303-A	HA304-A	
	25-Nov-2021 2149002-01 Soil	25-Nov-2021 2149002-05 Soil	25-Nov-2021 2149002-06 Soil	25-Nov-2021 2149002-08 Soil	
Sample Date:	Sample ID:	Matrix:	MDL/Units	Reg 153/04 (2011)-Table 1 Residential	
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	0.1 ug/g
Fluoranthene	0.02 ug/g	-	<0.02	-	0.56 ug/g
Fluorene	0.02 ug/g	-	<0.02	-	0.12 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	-	0.23 ug/g
1-Methylnaphthalene	0.02 ug/g	-	<0.02	-	0.59 ug/g
2-Methylnaphthalene	0.02 ug/g	-	<0.02	-	0.59 ug/g
Methylnaphthalene (1&2)	0.03 ug/g	-	<0.03	-	0.59 ug/g
Naphthalene	0.01 ug/g	-	<0.01	-	0.09 ug/g
Phenanthrene	0.02 ug/g	-	<0.02	-	0.69 ug/g
Pyrene	0.02 ug/g	-	<0.02	-	1 ug/g
2-Fluorobiphenyl	Surrogate	-	104%	-	
Terphenyl-d14	Surrogate	-	108%	-	

Client ID: Sample Date: Sample ID: Matrix:	HA305-A	-	-	-	-	-
	25-Nov-2021	-	-	-	-	-
	2149002-10	-	-	-	-	-
	Soil	-	-	-	-	-

Criteria:

Reg 153/04 (2011)-Table 1 Residential

Physical Characteristics		MDL/Units					
% Solids		0.1 % by Wt.		90.3		-	
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	-	-	0.5 ug/g
Benzene	0.02 ug/g	<0.02	-	-	-	-	0.02 ug/g
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
Bromoform	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
Bromomethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
Chloroform	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	0.05 ug/g

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
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					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.208		ug/g	105	50-140			
Surrogate: Terphenyl-d14	0.208		ug/g	104	50-140			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	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: 4-Bromofluorobenzene	7.05		ug/g	88.2	50-140			
Surrogate: Dibromofluoromethane	6.89		ug/g	86.1	50-140			
Surrogate: Toluene-d8	8.21		ug/g	103	50-140			
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	8.21		ug/g	103	50-140			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F-1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F-2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F-3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F-4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Physical Characteristics									
% Solids	83.0	0.1	% by Wt.	83.4			0.5	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	0.021			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	0.026			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	0.052			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	0.023			NC	40	
Pyrene	ND	0.02	ug/g	0.030			NC	40	
Surrogate: 2-Fluorobiphenyl	0.261		ug/g		89.8	50-140			
Surrogate: Terphenyl-d14	0.316		ug/g		108	50-140			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	6.45		ug/g		86.4	50-140			
Surrogate: Dibromofluoromethane	5.83		ug/g		78.1	50-140			
Surrogate: Toluene-d8	7.75		ug/g		104	50-140			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	7.75		ug/g		104	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	73	7	ug/g	ND	103	80-120		
F2 PHCs (C10-C16)	72	4	ug/g	ND	78.8	60-140		
F3 PHCs (C16-C34)	186	8	ug/g	ND	90.4	60-140		
F4 PHCs (C34-C50)	147	6	ug/g	ND	99.6	60-140		
Semi-Volatiles								
Acenaphthene	0.099	0.02	ug/g	ND	87.8	50-140		
Acenaphthylene	0.101	0.02	ug/g	ND	89.3	50-140		
Anthracene	0.092	0.02	ug/g	ND	81.6	50-140		
Benzo [a] anthracene	0.130	0.02	ug/g	0.024	93.6	50-140		
Benzo [a] pyrene	0.147	0.02	ug/g	0.030	105	50-140		
Benzo [b] fluoranthene	0.140	0.02	ug/g	0.048	81.8	50-140		
Benzo [g,h,i] perylene	0.134	0.02	ug/g	0.050	74.6	50-140		
Benzo [k] fluoranthene	0.122	0.02	ug/g	ND	108	50-140		
Chrysene	0.127	0.02	ug/g	0.035	81.4	50-140		
Dibenzo [a,h] anthracene	0.105	0.02	ug/g	ND	92.9	50-140		
Fluoranthene	0.143	0.02	ug/g	0.036	95.2	50-140		
Fluorene	0.109	0.02	ug/g	ND	96.6	50-140		
Indeno [1,2,3-cd] pyrene	0.155	0.02	ug/g	0.036	105	50-140		
1-Methylnaphthalene	0.136	0.02	ug/g	0.041	84.1	50-140		
2-Methylnaphthalene	0.143	0.02	ug/g	0.053	79.4	50-140		
Naphthalene	0.124	0.01	ug/g	0.033	80.8	50-140		
Phenanthrene	0.125	0.02	ug/g	0.032	82.3	50-140		
Pyrene	0.127	0.02	ug/g	0.038	79.0	50-140		
Surrogate: 2-Fluorobiphenyl	0.223		ug/g		99.5	50-140		
Surrogate: Terphenyl-d14	0.216		ug/g		96.0	50-140		

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 03-Dec-2021

Order Date: 26-Nov-2021

Project Description: CT2694.03

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/Solid results are reported on a dry weight basis unless otherwise indicated
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.

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.

Parcel ID: 2149002



Parcel Order Number
(Lab Use Only)
2149002

Chain Of Custody
(Lab Use Only)
NO 59096

Project Ref: **CT2694.03**
 Quote #: **S.O.**
 PO#:
 E-mail: **S.Sutherland@tenapex**

Client Name: **Tenapex Environmental Ltd.**
 Contact Name: **Sara Sutherland**
 Address: **90 Sandvine Rd, Toronto, ON
M3B 2R7**
 Telephone: **416-529-9215**

Page: **1** of **1**
 Turnaround Time
 1 day
 2 day
 Regular
 Date Required:

Sample ID/Location Name	Regulation L53/04		Other Regulation		Matrix	Air Volume	# of Containers	Sample Taken		Required Analysis	
	Table 1	Table 2	Table 3	Table				Date	Time		
1 HA 301-A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	12:35pm	X	HOLD
2 HA 301-B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	1:05pm	X	PHG
3 HA 302-A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	1:00 pm	X	VOCs
4 HA 302-B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	1:31 pm	X	PHG
5 HA 302-D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	4:5pm	X	PHG
6 HA 303-A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	2:50pm	X	PHG
7 HA 303-B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	2:35pm	X	PHG
8 HA 304-A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	3:44pm	X	PHG
9 HA 304-B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	3:48pm	X	PHG
10 HA 305-A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	-	R	Nov 25 2021	4:00pm	X	PHG

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

Other Regulation:
 Table 1 Reg 558 P100
 Table 2 Inc/Cont Coarse MISA
 Table 3 Agri/Other SU - Sani SU - Storm
 Table Mut. Other:
 For RSC: Yes No

Received By (Sign): **Mina Nayef**
 Date/Time: **Nov 25, 2021 11:40AM**
 Temperature: **6.6** °C

Received at Lab: **Am**
 Date/Time: **29/11/21 10:00**
 Temperature: **5.9** °C

Method of Delivery: **FABER**
 Verified By: **BS**
 Date/Time: **29/11/21 14:00**
 pH Verified: Dr:



351 Nash Road North, unit 9B
Hamilton, ON L8H 7P4
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

Terrapex Environmental Ltd. (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 59098

Report Date: 6-Dec-2021
Order Date: 26-Nov-2021

Order #: 2149004

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

Parcel ID	Client ID
2149004-02	Trip Blank
2149004-03	HA333

Miljan Ralitsch, PhD
Senior Technical Manager

Approved By:

Report Date: 06-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	2-Dec-21	3-Dec-21
PHC F1	CWS Tier 1 - P&T GC-FID	2-Dec-21	3-Dec-21
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	2-Dec-21	6-Dec-21
REG 153: VOCs by P&T GC-MS	EPA 8260 - P&T GC-MS	2-Dec-21	3-Dec-21
Solids, %	Gravimetric, calculation	2-Dec-21	3-Dec-21

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets, (), applies to medium and fine textured soils.

Criteria:

Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 1 Residential
-----------	---------	-------------	--------	---------------------------------------

Client ID:	Trip Blank	HA333	-	-
	Sample Date:	25-Nov-2021	-	-
	Sample ID:	2149004-03	-	-
	Matrix:	Soil	-	-
MDL/Units				

Criteria:

Reg 153/04 (2011)-Table 1 Residential

Physical Characteristics					
% Solids	0.1 % by Wt.	100	90.0	-	-
Volatiles					
Acetone	0.50 ug/g	<0.50	-	-	0.5 ug/g
Benzene	0.02 ug/g	<0.02	-	-	0.02 ug/g
Bromodichloromethane	0.05 ug/g	<0.05	-	-	0.05 ug/g
Bromoform	0.05 ug/g	<0.05	-	-	0.05 ug/g
Bromomethane	0.05 ug/g	<0.05	-	-	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	0.05 ug/g
Chlorobenzene	0.05 ug/g	<0.05	-	-	0.05 ug/g
Chloroform	0.05 ug/g	<0.05	-	-	0.05 ug/g
Dibromochloromethane	0.05 ug/g	<0.05	-	-	0.05 ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	0.05 ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	0.05 ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	0.05 ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	0.05 ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	0.05 ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	0.05 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	0.05 ug/g
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	0.05 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	0.05 ug/g

	Client ID:		HA333 25-Nov-2021 2149004-03 Soil	-	-	-	-	-	-	Criteria: Reg 153/04 (2011)-Table 1 Residential
	Sample Date:	Trip Blank 24-Nov-2021 2149004-02 Soil								
	Sample ID:	Soil								
	MDL/Units									
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Ethylene dibromide (dibromoethane)	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Hexane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	-	-	-	0.5	ug/g
Methyl isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	-	-	-	0.5	ug/g
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Styrene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Toluene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.2	ug/g
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	-	-	-	0.25	ug/g
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	-	-	-	0.02	ug/g
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-	-	-	0.05	ug/g
4-Bromofluorobenzene	Surrogate	89.3%	-	-	-	-	-	-	-	-

	Client ID:		HA333 25-Nov-2021 2149004-03 Soil	-	-	Criteria: Reg 153/04 (2011)-Table 1 Residential
	Sample ID:	Sample Date:				
	Matrix:		2149004-02 Soil	-	-	
	MDL/Units					
Dibromofluoromethane	Surrogate	83.3%	-	-	-	
Toluene-d8	Surrogate	103%	-	-	-	
Benzene	0.02 ug/g	-	<0.02	-	-	0.02 ug/g
Ethylbenzene	0.05 ug/g	-	<0.05	-	-	0.05 ug/g
Toluene	0.05 ug/g	-	<0.05	-	-	0.2 ug/g
m,p-Xylenes	0.05 ug/g	-	<0.05	-	-	
o-Xylene	0.05 ug/g	-	<0.05	-	-	
Xylenes, total	0.05 ug/g	-	<0.05	-	-	0.05 ug/g
Toluene-d8	Surrogate	-	103%	-	-	
Hydrocarbons						
F1 PHCs (C6-C10)	7 ug/g	<7	<7	-	-	25 ug/g
Semi-Volatiles						
Acenaphthene	0.02 ug/g	-	<0.02	-	-	0.072 ug/g
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	0.093 ug/g
Anthracene	0.02 ug/g	-	<0.02	-	-	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	0.36 ug/g
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	0.47 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	0.68 ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	0.48 ug/g
Chrysene	0.02 ug/g	-	<0.02	-	-	2.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	-	0.1 ug/g
Fluoranthene	0.02 ug/g	-	<0.02	-	-	0.56 ug/g
Fluorene	0.02 ug/g	-	<0.02	-	-	0.12 ug/g

Report Date: 06-Dec-2021
 Order Date: 26-Nov-2021
 Project Description: CT2694.03

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

	Client ID:		Sample Date:	Sample ID:	Matrix:	MDL/Units	Criteria:
	Trip Blank	HA333					
Indeno [1,2,3-cd] pyrene	24-Nov-2021	25-Nov-2021	2149004-02	Soil	0.02 ug/g	<0.02	0.23 ug/g
1-Methylnaphthalene	-	2149004-03	-	Soil	0.02 ug/g	<0.02	0.59 ug/g
2-Methylnaphthalene	-	-	-	-	0.02 ug/g	<0.02	0.59 ug/g
Methylnaphthalene (1&2)	-	-	-	-	0.03 ug/g	<0.03	0.59 ug/g
Naphthalene	-	-	-	-	0.01 ug/g	<0.01	0.09 ug/g
Phenanthrene	-	-	-	-	0.02 ug/g	<0.02	0.69 ug/g
Pyrene	-	-	-	-	0.02 ug/g	<0.02	1 ug/g
2-Fluorobiphenyl	-	-	-	-	Surrogate	107%	-
Terphenyl-d14	-	-	-	-	Surrogate	115%	-

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	RPD Limit	Notes
Hydrocarbons								
F-1 PHCs (C6-C10)	ND	7	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.223		ug/g	112	50-140			
Surrogate: Terphenyl-d14	0.237		ug/g	119	50-140			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					

Certificate of Analysis
Client: Terrapex Environmental Ltd. (Toronto)
Client PO:

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
1,1-Dichloroethylene	ND	0.05	ug/g				
cis-1,2-Dichloroethylene	ND	0.05	ug/g				
trans-1,2-Dichloroethylene	ND	0.05	ug/g				
1,2-Dichloropropane	ND	0.05	ug/g				
cis-1,3-Dichloropropylene	ND	0.05	ug/g				
trans-1,3-Dichloropropylene	ND	0.05	ug/g				
1,3-Dichloropropene, total	ND	0.05	ug/g				
Ethylbenzene	ND	0.05	ug/g				
Ethylene dibromide (dibromoethane, 1,2)	ND	0.05	ug/g				
Hexane	ND	0.05	ug/g				
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g				
Methyl Isobutyl Ketone	ND	0.50	ug/g				
Methyl tert-butyl ether	ND	0.05	ug/g				
Methylene Chloride	ND	0.05	ug/g				
Styrene	ND	0.05	ug/g				
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g				
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g				
Tetrachloroethylene	ND	0.05	ug/g				
Toluene	ND	0.05	ug/g				
1,1,1-Trichloroethane	ND	0.05	ug/g				
1,1,2-Trichloroethane	ND	0.05	ug/g				
Trichloroethylene	ND	0.05	ug/g				
Trichlorofluoromethane	ND	0.05	ug/g				
Vinyl chloride	ND	0.02	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: 4-Bromofluorobenzene	7.05		ug/g		88.2	50-140	
Surrogate: Dibromofluoromethane	6.89		ug/g		86.1	50-140	
Surrogate: Toluene-d8	8.21		ug/g		103	50-140	
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	8.21		ug/g		103	50-140	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F-1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
Physical Characteristics									
% Solids	83.0	0.1	% by Wt.	83.4			0.5	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	0.029	0.02	ug/g	0.024			20.1	40	
Benzo [a] anthracene	0.151	0.02	ug/g	0.131			14.6	40	
Benzo [a] pyrene	0.214	0.02	ug/g	0.176			19.4	40	
Benzo [b] fluoranthene	0.300	0.02	ug/g	0.250			18.5	40	
Benzo [g,h,i] perylene	0.202	0.02	ug/g	0.160			23.6	40	
Benzo [k] fluoranthene	0.123	0.02	ug/g	0.098			23.3	40	
Chrysene	0.207	0.02	ug/g	0.163			23.5	40	
Dibenzo [a,h] anthracene	0.052	0.02	ug/g	0.037			34.1	40	
Fluoranthene	0.461	0.02	ug/g	0.363			23.7	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.157	0.02	ug/g	0.135			15.6	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	0.177	0.02	ug/g	0.148			18.1	40	
Pyrene	0.336	0.02	ug/g	0.246			30.9	40	
Surrogate: 2-Fluorobiphenyl	0.239		ug/g		100	50-140			
Surrogate: Terphenyl-d14	0.297		ug/g		124	50-140			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	6.45		ug/g		86.4	50-140			
Surrogate: Dibromofluoromethane	5.83		ug/g		78.1	50-140			
Surrogate: Toluene-d8	7.75		ug/g		104	50-140			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	7.75		ug/g		104	50-140			

Certificate of Analysis
 Client: Terrapex Environmental Ltd. (Toronto)
 Client PO:

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC Limit	RPD Limit	Notes
Hydrocarbons							
F 1 PHCs (C6-C10)	73	7	ug/g	ND	103	80-120	
Semi-Volatiles							
Acenaphthene	0.125	0.02	ug/g	ND	104	50-140	
Acenaphthylene	0.108	0.02	ug/g	ND	90.8	50-140	
Anthracene	0.125	0.02	ug/g	0.024	84.8	50-140	
Benzo [a] anthracene	0.235	0.02	ug/g	0.131	87.6	50-140	
Benzo [a] pyrene	0.316	0.02	ug/g	0.176	117	50-140	
Benzo [b] fluoranthene	0.376	0.02	ug/g	0.250	106	50-140	
Benzo [g,h,i] perylene	0.332	0.02	ug/g	0.160	145	50-140	
Benzo [k] fluoranthene	0.250	0.02	ug/g	0.098	127	50-140	
Chrysene	0.276	0.02	ug/g	0.163	94.2	50-140	
Dibenzo [a,h] anthracene	0.174	0.02	ug/g	0.037	115	50-140	
Fluoranthene	0.470	0.02	ug/g	0.363	89.7	50-140	
Fluorene	0.132	0.02	ug/g	ND	111	50-140	
Indeno [1,2,3-cd] pyrene	0.287	0.02	ug/g	0.135	128	50-140	
1-Methylnaphthalene	0.125	0.02	ug/g	ND	105	50-140	
2-Methylnaphthalene	0.114	0.02	ug/g	ND	95.6	50-140	
Naphthalene	0.112	0.01	ug/g	ND	93.5	50-140	
Phenanthrene	0.247	0.02	ug/g	0.148	82.9	50-140	
Pyrene	0.355	0.02	ug/g	0.246	91.5	50-140	
Surrogate: 2-Fluorobiphenyl	0.261		ug/g		110	50-140	
Surrogate: Terphenyl-d14	0.279		ug/g		117	50-140	

QM-07

Certificate of Analysis

Client: Terrapex Environmental Ltd. (Toronto)

Client PO:

Report Date: 06-Dec-2021

Order Date: 26-Nov-2021

Project Description: CT2694.03

Qualifier Notes:

QC Qualifiers :

QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

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/Solid results are reported on a dry weight basis unless otherwise indicated

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.

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.



Project Ref: CT2674.03
 Quote #: S.O.
 PO #: _____
 Email: S.Sutherland@terrapex

Client Name: Terrapex Environmental Ltd.
 Contact Name: Sara Sutherland
 Address: 90 Scarsdale Rd. Toronto, ON
M3B 2R7
 Telephone: 416-529-9215

Turnaround Time
 1 day
 2 day
 3 day
 Regular

Regulation 153/04
 Table 1 Res/Park Med/Fine PW00
 Table 2 Ind/Comm Coarse COME MISA
 Table 3 Agri/Other SU - San SU - Storm
 Table _____
 For BSC: Yes No
 Other: _____

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Date	Time	Required Analysis
				Matrix	Volume			
1 HAB05-B	S	-	2			Nov 25, 2021	4:15 PM	VOCs BTEX HPC (CF) HOLID PARTS
2 Trip Blank	S	-	1			Nov 24, 2021	9:00 AM	
3 HA.333	S	-	2			Nov 25, 2021		
4								
5								
6								
7								
8								
9								
10								

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

Received at Lab: Am
 Date/Time: 29/11/21 10:00
 Temperature: 5.9 °C

Relinquished By (Print): Mira Wang
 Date/Time: Nov 26, 2021 11:41 AM

Received By (Print): BB
 Date/Time: 29/11/21 10:00am

Method of Delivery: RABK

Certificate of Analysis

Terapex Environmental (Toronto)

90 Scarsdale Road
Toronto, ON M3B 2R7
Attn: Sara Sutherland

Client PO:
Project: CT2694.03
Custody: 128030

Report Date: 1-Apr-2022
Order Date: 1-Feb-2022

Order #: 2 06182

Revised Report

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

Paracel ID	Client ID
2206182-01	GS401-1
2206182-02	GS402-2
2206182-03	GS403-2
2206182-04	GS404-2
2206182-05	GS405-1
2206182-06	GS406-1
2206182-07	GS407-1
2206182-08	GS408-1
2206182-09	GS4000

Approved By:



Alex Enfield, MSc
Lab Manager

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Terrapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client ID:

Project Description: CT 2 69403

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	1-Apr-22	1-Apr-22
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	4-Feb-22	7-Feb-22
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	3-Feb-22	4-Feb-22
Solids, %	Gravimetric, calculation	4-Feb-22	7-Feb-22

Certificate of Analysis

Report Date: 01-Apr-2022

Client: TherapeuX Environnemental (Toronto)

Order Date: 1-Feb-2022

Client PO:

Project Description: CT 2 69403

Summary of Criteria Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	M DL Units	Result	Reg 15304 -T 1 Res
				-

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Terrapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client ID:

Project Description: CT 2 69403

Client ID:	GS401-1	GS402-2	GS403-2	GS404-2	Criteria:
Sample Date	28-Jan-22 08:00	28-Jan-22 08:15	28-Jan-22 08:30	28-Jan-22 08:45	Reg 15304 - T1 Res
Sample ID:	2206182-01	2206182-02	2206182-03	2206182-04	-
Matrix:	Soil	Soil	Soil	Soil	

Physical Characteristics

Method	0.1 % by Wt.	80.1	83.2	87.8	-
% Solids	78.4	80.1	83.2	87.8	-

Method	1.0 ug/g	<1.0	<1.0	<1.0	1.3 ug/g
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	4.8	2.0	3.6	18 ug/g
Barium	1.0 ug/g	55.4	38.6	50.7	220 ug/g
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	2.5 ug/g
Boron	5.0 ug/g	5.9	<5.0	7.0	36 ug/g
Boron, available	0.5 ug/g	-	<0.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	16.2	14.5	13.9	70 ug/g
Cobalt	1.0 ug/g	5.9	4.2	4.8	21 ug/g
Copper	5.0 ug/g	14.6	6.2	12.2	92 ug/g
Lead	1.0 ug/g	16.9	4.8	14.1	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	12.4	8.0	9.8	82 ug/g
Selenium	1.0 ug/g	1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	32.0	28.9	28.1	86 ug/g
Zinc	20.0 ug/g	52.7	32.7	39.1	290 ug/g

SemiVolatiles

Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	0.072 ug/g
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	0.093 ug/g
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.16 ug/g

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Terapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client ID:

Project Description: CT 2 69403

Client ID:	GS401-1	GS402-2	GS403-2	GS404-2	Criteria:
Sample Date:	28-Jan-22 08:00	28-Jan-22 08:15	28-Jan-22 08:30	28-Jan-22 08:45	Reg 15304 - T1 Res
Sample ID:	2206182-01	2206182-02	2206182-03	2206182-04	-
Matrix:	Soil	Soil	Soil	Soil	
M D L Units					

SemiVolatiles

Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.36 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.48 ug/g	-
Chrysene	0.02 ug/g	<0.02	<0.02	<0.02	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	0.12 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.23 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	<0.03	<0.03	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	<0.02	<0.02	0.69 ug/g	-
Pyrene	0.02 ug/g	<0.02	<0.02	<0.02	1 ug/g	-
2-Fluorobiphenyl	Surrogate	74.9%	68.1%	72.4%	-	-
Terphenyl-d14	Surrogate	87.3%	91.6%	90.2%	-	-

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Terrapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client PO:

Project Description: CT 2 69403

Client ID:	GS405-1	GS406-1	GS407-1	GS408-1	Criteria:
Sample Date:	28-Jan-22 09:30	28-Jan-22 09:45	28-Jan-22 10:00	28-Jan-22 11:00	Reg 15304 - T 1 Res
Sample ID:	2206182-05	2206182-06	2206182-07	2206182-08	-
Matrix:	Soil	Soil	Soil	Soil	

Physical Characteristics	Method				
	0.1 % by Wt.	84.1	84.7	86.1	87.8
% Solids					
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	1.7	2.5	2.4	18 ug/g
Barium	1.0 ug/g	54.8	55.4	87.0	220 ug/g
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	2.5 ug/g
Boron	5.0 ug/g	<5.0	<5.0	6.2	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	15.9	18.6	21.2	70 ug/g
Cobalt	1.0 ug/g	5.6	6.6	6.3	21 ug/g
Copper	5.0 ug/g	7.1	8.9	13.8	92 ug/g
Lead	1.0 ug/g	6.3	8.1	5.4	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	8.2	11.0	14.8	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	36.0	38.1	35.4	86 ug/g
Zinc	20.0 ug/g	62.2	45.0	28.8	290 ug/g
Sum of Volatiles					
Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	0.072 ug/g
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	0.093 ug/g
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.36 ug/g

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Terrapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client ID:

Project Description: CT 2 69403

Client ID:	GS405-1	GS406-1	GS407-1	GS408-1	Criteria:
Sample Date:	28-Jan-22 09:30	28-Jan-22 09:45	28-Jan-22 10:00	28-Jan-22 11:00	Reg 15304 - T1 Res
Sample ID:	2206182-05	2206182-06	2206182-07	2206182-08	-
Matrix:	Soil	Soil	Soil	Soil	
M D L Units					

SemiVolatiles

Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.47 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	0.68 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.48 ug/g	-
Chrysene	0.02 ug/g	<0.02	<0.02	<0.02	2.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	0.56 ug/g	-
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	0.12 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	0.23 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.59 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	0.59 ug/g	-
Methylnaphthalene (1&2)	0.03 ug/g	<0.03	<0.03	<0.03	0.59 ug/g	-
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	0.09 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	<0.02	<0.02	0.69 ug/g	-
Pyrene	0.02 ug/g	<0.02	<0.02	<0.02	1 ug/g	-
2-Fluorobiphenyl	Surrogate	71.7%	63.9%	75.6%	-	-
Terphenyl-d14	Surrogate	92.0%	86.3%	93.0%	-	-

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Terrapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client PO:

Project Description: CT 2 69403

Client ID:	GS4000	Criteria:	Reg 15304 - T1 Res
Sample Date:	28-Jan-22 11:00		
Sample ID:	2206182-09		
Matrix:	Soil		
MDL Units:			

Physical Characteristics

% Solids	0.1 % by Wt.	86.8	-	-	-	-	-
----------	--------------	------	---	---	---	---	---

Metals	MDL	Result	Criteria
Antimony	1.0 ug/g	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	3.0	18 ug/g
Barium	1.0 ug/g	48.0	220 ug/g
Beryllium	0.5 ug/g	0.5	2.5 ug/g
Boron	5.0 ug/g	<5.0	36 ug/g
Cadmium	0.5 ug/g	<0.5	1.2 ug/g
Chromium	5.0 ug/g	17.9	70 ug/g
Cobalt	1.0 ug/g	7.3	21 ug/g
Copper	5.0 ug/g	8.6	92 ug/g
Lead	1.0 ug/g	8.0	120 ug/g
Molybdenum	1.0 ug/g	<1.0	2 ug/g
Nickel	5.0 ug/g	12.5	82 ug/g
Selenium	1.0 ug/g	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	36.0	86 ug/g
Zinc	20.0 ug/g	29.2	290 ug/g

SemiVolatiles

Acenaphthene	0.02 ug/g	<0.02	0.072 ug/g
Acenaphthylene	0.02 ug/g	<0.02	0.093 ug/g
Anthracene	0.02 ug/g	<0.02	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	0.36 ug/g

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Terrapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client ID:

Project Description: CT 2 69403

Client ID:	GS4000					Criteria:
Sample Date:	28-Jan-22 11:00					Reg 15304 - T1 Res
Sample ID:	2206182-09					-
Matrix:	Soil					
M D L Units						

SemiVolatiles

Compound	Concentration (ug/g)	DL (ug/g)	Concentration (ug/g)	DL (ug/g)	Concentration (ug/g)	DL (ug/g)	Concentration (ug/g)	DL (ug/g)
Benzo [a] pyrene	0.02	<0.02	-	-	0.3	ug/g	-	-
Benzo [b] fluoranthene	0.02	<0.02	-	-	0.47	ug/g	-	-
Benzo [g,h,i] perylene	0.02	<0.02	-	-	0.68	ug/g	-	-
Benzo [k] fluoranthene	0.02	<0.02	-	-	0.48	ug/g	-	-
Chrysene	0.02	<0.02	-	-	2.8	ug/g	-	-
Dibenzo [a,h] anthracene	0.02	<0.02	-	-	0.1	ug/g	-	-
Fluoranthene	0.02	<0.02	-	-	0.56	ug/g	-	-
Fluorene	0.02	<0.02	-	-	0.12	ug/g	-	-
Indeno [1,2,3-cd] pyrene	0.02	<0.02	-	-	0.23	ug/g	-	-
1-Methylnaphthalene	0.02	<0.02	-	-	0.59	ug/g	-	-
2-Methylnaphthalene	0.02	<0.02	-	-	0.59	ug/g	-	-
Methylnaphthalene (1&2)	0.03	<0.03	-	-	0.59	ug/g	-	-
Naphthalene	0.01	<0.01	-	-	0.09	ug/g	-	-
Phenanthrene	0.02	<0.02	-	-	0.69	ug/g	-	-
Pyrene	0.02	<0.02	-	-	1	ug/g	-	-
2-Fluorobiphenyl	Surrogate	69.7%	-	-	-	-	-	-
Terphenyl-d14	Surrogate	84.2%	-	-	-	-	-	-

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Therapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client ID:

Project Description: CT 2 69403

Method Quality Control/Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
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	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	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					
SemiVolatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					

Report Date: 01-Apr-2022
Order Date: 1-Feb-2022
Project Description: CT 2 69403

Certificate of Analysis
Client: Terrapex Environmental (Toronto)
Client ID: 20220201

Method Quality Control Bank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.03	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	0.137		ug/g	68.9	50-140			
Surrogate: Terphenyl-d14	0.184		ug/g	92.2	50-140			

Certificate of Analysis
Client: Therapeur Environnemental (Toronto)
Client O:

Method Quality Control Update

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	1.7	1.0	ug/g	1.2			NC	30	
Barium	15.6	1.0	ug/g	13.8			12.4	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron, available	ND	0.5	ug/g	ND			NC	35	
Boron	5.8	5.0	ug/g	ND			NC	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium	7.8	5.0	ug/g	6.1			24.4	30	
Cobalt	1.9	1.0	ug/g	1.8			6.9	30	
Copper	ND	5.0	ug/g	ND			NC	30	
Lead	2.5	1.0	ug/g	2.2			15.4	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	ND	5.0	ug/g	ND			NC	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	19.4	10.0	ug/g	15.1			25.2	30	
Zinc	ND	20.0	ug/g	ND			NC	30	
Physical Characteristics									
% Solids	94.7	0.1	% by Wt.	94.5			0.2	25	
Semi Volatiles									
Acenaphthene	0.032	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	0.062	0.02	ug/g	0.047			28.3	40	
Benzo [a] anthracene	0.120	0.02	ug/g	0.089			29.5	40	
Benzo [a] pyrene	0.127	0.02	ug/g	0.095			28.3	40	
Benzo [b] fluoranthene	0.142	0.02	ug/g	0.103			31.7	40	
Benzo [g,h,i] perylene	0.070	0.02	ug/g	0.047			38.4	40	
Benzo [k] fluoranthene	0.072	0.02	ug/g	0.055			26.2	40	

Report Date: 01-Apr-2022
Order Date: 1-Feb-2022
Project Description: CT 2 69403

Certificate of Analysis
Client: Terrapex Environmental (Toronto)
Contact: O:

Method Quality Control Update

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chrysene	0.134	0.02	ug/g	0.105			24.1	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	0.351	0.02	ug/g	0.246			35.2	40	
Fluorene	0.034	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.092	0.02	ug/g	0.066			32.8	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	0.017	0.01	ug/g	ND			NC	40	
Phenanthrene	0.265	0.02	ug/g	0.175			40.9	40	QR-05
Pyrene	0.218	0.02	ug/g	0.172			24.0	40	
Surrogate: 2-Fluorobiphenyl	0.145		ug/g		67.4	50-140			
Surrogate: Terphenyl-d14	0.195		ug/g		90.2	50-140			

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Therapeur Environnemental (Toronto)

Order Date: 1-Feb-2022

Client ID:

Project Description: CT 2 69403

Method Quality Control Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Antimony	138	1.0	ug/g	ND	110	70-130			
Arsenic	132	1.0	ug/g	1.2	105	70-130			
Barium	141	1.0	ug/g	13.8	102	70-130			
Beryllium	119	0.5	ug/g	ND	95.3	70-130			
Boron, available	4.11	0.5	ug/g	ND	82.2	70-122			
Boron	122	5.0	ug/g	ND	97.8	70-130			
Cadmium	124	0.5	ug/g	ND	99.3	70-130			
Chromium	132	5.0	ug/g	6.1	100	70-130			
Cobalt	125	1.0	ug/g	1.8	98.2	70-130			
Copper	126	5.0	ug/g	ND	101	70-130			
Lead	119	1.0	ug/g	2.2	93.2	70-130			
Molybdenum	129	1.0	ug/g	ND	103	70-130			
Nickel	128	5.0	ug/g	ND	103	70-130			
Selenium	125	1.0	ug/g	ND	99.8	70-130			
Silver	117	0.3	ug/g	ND	93.6	70-130			
Thallium	118	1.0	ug/g	ND	94.5	70-130			
Uranium	124	1.0	ug/g	ND	99.3	70-130			
Vanadium	145	10.0	ug/g	15.1	104	70-130			
Zinc	134	20.0	ug/g	ND	107	70-130			
SemiVolats									
Acenaphthene	0.101	0.02	ug/g	ND	93.6	50-140			
Acenaphthylene	0.076	0.02	ug/g	ND	70.5	50-140			
Anthracene	0.110	0.02	ug/g	0.047	58.8	50-140			
Benzo [a] anthracene	0.161	0.02	ug/g	0.089	65.9	50-140			
Benzo [a] pyrene	0.178	0.02	ug/g	0.095	76.3	50-140			
Benzo [b] fluoranthene	0.178	0.02	ug/g	0.103	69.4	50-140			
Benzo [g,h,i] perylene	0.142	0.02	ug/g	0.047	86.8	50-140			
Benzo [k] fluoranthene	0.132	0.02	ug/g	0.055	70.9	50-140			
Chrysene	0.172	0.02	ug/g	0.105	62.1	50-140			
Dibenzo [a,h] anthracene	0.107	0.02	ug/g	ND	98.3	50-140			

Certificate of Analysis

Report Date: 01-Apr-2022

Client: Terapex Environmental (Toronto)

Order Date: 1-Feb-2022

Client ID:

Project Description: CT 2 69403

Method Quality Control Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD Limit	Notes
Fluoranthene	0.297	0.02	ug/g	0.246	46.9	50-140		QM-07
Fluorene	0.109	0.02	ug/g	ND	101	50-140		
Indeno [1,2,3-cd] pyrene	0.187	0.02	ug/g	0.066	112	50-140		
1-Methylnaphthalene	0.095	0.02	ug/g	ND	88.0	50-140		
2-Methylnaphthalene	0.087	0.02	ug/g	ND	80.7	50-140		
Naphthalene	0.092	0.01	ug/g	ND	84.9	50-140		
Phenanthrene	0.236	0.02	ug/g	0.175	55.7	50-140		
Pyrene	0.216	0.02	ug/g	0.172	40.7	50-140		QM-07
Surrogate: 2-Fluorobiphenyl	0.159		ug/g		73.6	50-140		
Surrogate: Terphenyl-d14	0.205		ug/g		94.5	50-140		

Certificate of Analysis

Client: Terrapex Environmental (Toronto)

Contact:

Report Date: 01-Apr-2022

Order Date: 1-Feb-2022

Project Description: CT 2 69403

Qualifier Notes:

QC Qualifiers:

QM-07 : The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.
QR-05 : Duplicate RPDs higher than normally accepted. Remaining batch QA/QC was acceptable. May be sample effect.

Logh Qualifiers:

Sample - One or more parameter received past hold time - REG 153: Pesticides, OC
Applies to Samples: GS407-1, GS408-1

Sample Data Revisions:

None

Work Order Revisions / Comments:

REVISION-02: This report includes an updated parameter list, as per client

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 unless otherwise noted.

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

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.



Client Name: TERRAPEX ENVIRONMENTAL LTD.
 Contact Name: SARA SUTHERLAND
 Address: 90 SCARSDALE RD, TORONTO, ON
M3B 2R7
 Telephone: 416-245-0011

Project Ref: CT2694-03
 Quote #: TERRAPEX
 PO #:
 E-mail: S.Sutherland@terrapex.com

Page 1 of 1

Turnaround Time
 1 day
 2 day
 3 day
 Regular
 Date Required:

Sample ID/Location Name	Regulation 153/04		Other Regulation		Matrix	Air Volume	# of Containers	Sample Taken		PHCs F3-F4+BTX	VOCs	PAHs	Metals by ICP	Hb	CMI	B (HWS)
	Table 1 <input checked="" type="checkbox"/> Res/Part	Table 2 <input type="checkbox"/> Ind/Comm	Table 3 <input type="checkbox"/> Agri/Other	Table <input type="checkbox"/> Other				Table 1 <input type="checkbox"/> Res/Part	Table 2 <input type="checkbox"/> Ind/Comm							
1 G5401-1					S	-	1	JAN 28/22	8:00							
2 G5402-2					S	-	1		8:15							
3 G5403-2					S	-	1		8:30							
4 G5404-2					S	-	1		8:45							
5 G5405-1					S	-	1		9:30							
6 G5406-1					S	-	1		9:45							
7 G5407-1					S	-	1		10:00							
8 G5408-1					S	-	1		11:00							
9 G5400					S	-	1	JAN 28/22	11:00							
10																

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

Method of Delivery: LABBER

Received at:
 Date/Time: 2/2/22 12:23
 Temperature: 5.3 °C

Received By (Driver/Deposit):
 Date/Time: 02/01/2022 14:10
 Temperature: -1.2 °C

Requisitioned By (Client):
 Date/Time: FEB 1, 2022

Requisitioned By (Print): ALAN LI-PING-KING

Chain of Custody (Env) 153

APPENDIX II

WEIGH TICKETS



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326950

Date
 28-Jan-2022 7:34 am

REPRINT

Weighmaster: BRIAN SAGLE

Date
 28-Jan-2022 7:34 am

Vehicle: Northern Landfill -
 Reference: BE83973-S TRUCKING 131
 BOL:

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)
 Origin:

INBOUND
 GROSS WEIGHT 37,310.00 kg
 TARE WEIGHT 14,000.00 kg
 NET WEIGHT 23,310.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
23.31	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326951

Date
 28-Jan-2022 7:36 am

REPRINT

Weighmaster: BRIAN SAGLE

Date
 28-Jan-2022 7:36 am

Vehicle: Northern Landfill -
 Reference: AS40345-S TRUCKING 22
 BOL:

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)
 Origin:

INBOUND
 GROSS WEIGHT 37,110.00 kg
 TARE WEIGHT 14,100.00 kg
 NET WEIGHT 23,010.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
23.01	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326959

Date
 28-Jan-2022 8:15 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 8:15 am

Vehicle: Northern Landfill -
 Reference: BE8379-S TRUCKING 131
 BOL:

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

INBOUND
 GROSS WEIGHT 38,580.00 kg
 TARE WEIGHT 14,000.00 kg
 NET WEIGHT 24,580.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
24.58	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326961

Date
 28-Jan-2022 8:17 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 8:17 am

Vehicle: Northern Landfill -
 Reference: AS40345-S TRUCKING 22
 BOL:

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

INBOUND
 GROSS WEIGHT 39,880.00 kg
 TARE WEIGHT 14,100.00 kg
 NET WEIGHT 25,780.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
25.78	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326965

Date
 28-Jan-2022 8:29 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 8:29 am

Vehicle: Northern Landfill -
 Reference: BB87316-S TRUCKING 13
 BOL:

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

INBOUND
 GROSS WEIGHT 38,970.00 kg
 TARE WEIGHT 14,500.00 kg
 NET WEIGHT 24,470.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
24.47	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326972

Date
 28-Jan-2022 9:00 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 9:00 am

Vehicle: Northern Landfill -
 Reference: BE83793-S TRUCKING 131
 BOL:

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

INBOUND
 GROSS WEIGHT 39,290.00 kg
 TARE WEIGHT 14,000.00 kg
 NET WEIGHT 25,290.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
25.29	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326980

Date
 28-Jan-2022 9:16 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 9:16 am

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

Vehicle: Northern Landfill -
 Reference: AS40345-S TRUCKING 22
 BOL:

INBOUND
 GROSS WEIGHT 37,160.00 kg
 TARE WEIGHT 14,100.00 kg
 NET WEIGHT 23,060.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
23.06	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326982

Date
 28-Jan-2022 9:27 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 9:27 am

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

Vehicle: Northern Landfill -
 Reference: BB87316-S TRUCKING 13
 BOL:

INBOUND
 GROSS WEIGHT 39,510.00 kg
 TARE WEIGHT 14,500.00 kg
 NET WEIGHT 25,010.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
25.01	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326983

Date
 28-Jan-2022 9:49 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 9:49 am

Vehicle: Northern Landfill -
 Reference: BE83793-S TRUCKING 131
 BOL:

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

INBOUND
 GROSS WEIGHT 38,930.00 kg
 TARE WEIGHT 14,000.00 kg
 NET WEIGHT 24,930.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
24.93	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326984

Date
 28-Jan-2022 9:54 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 9:54 am

Vehicle: Northern Landfill -
 Reference: AS40345-S TRUCKING 22
 BOL:

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

INBOUND
 GROSS WEIGHT 37,970.00 kg
 TARE WEIGHT 14,100.00 kg
 NET WEIGHT 23,870.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
23.87	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-326992

Date
 28-Jan-2022 10:12 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 10:12 am

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7

Contract: 2680 Brock Road (Pickering)

Vehicle: Northern Landfill -
 Reference: BB87316-S TRUCKING 13

BOL:

INBOUND
 GROSS WEIGHT 39,810.00 kg
 TARE WEIGHT 14,500.00 kg
 NET WEIGHT 25,310.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
25.31	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-327002

Date
 28-Jan-2022 10:43 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 10:43 am

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7

Contract: 2680 Brock Road (Pickering)

Vehicle: Northern Landfill -
 Reference: BE83793-S TRUCKING 131

BOL:

INBOUND
 GROSS WEIGHT 38,650.00 kg
 TARE WEIGHT 14,000.00 kg
 NET WEIGHT 24,650.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
24.65	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any line or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-327003

Date
 28-Jan-2022 10:45 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 10:45 am

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

Vehicle: Northern Landfill -
 Reference: AS40345-S TRUCKING 22
 BOL:

INBOUND
 GROSS WEIGHT 37,280.00 kg
 TARE WEIGHT 14,100.00 kg
 NET WEIGHT 23,180.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
23.18	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any fine or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-327018

Date
 28-Jan-2022 11:17 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 11:17 am

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

Vehicle: Northern Landfill -
 Reference: BB87316-S TRUCKING 22
 BOL:

INBOUND
 GROSS WEIGHT 37,990.00 kg
 TARE WEIGHT 14,500.00 kg
 NET WEIGHT 23,490.00 kg

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
23.49	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any fine or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001



C of A # A680301
 GFL Environmental
 1070 Toy Ave.
 Pickering, ON L1W 3P1
 PH:(905) 509-2460 FX:(905) 428-6007

Ticket: 01-327020

Date
 28-Jan-2022 11:29 am

REPRINT

Weighmaster: BRIAN SAGLE
Date
 28-Jan-2022 11:29 am

Vehicle: Northern Landfill -
 Reference: BE83793-S TRUCKING 131

BOL:

INBOUND

GROSS WEIGHT 39,690.00 kg
 TARE WEIGHT 14,000.00 kg
 NET WEIGHT 25,690.00 kg

002484 - Northern Landfill/2348364 Ont Ltd
 157 Adelaide Street West
 Suite 716
 Toronto, ON M5H 4E7
 Contract: 2680 Brock Road (Pickering)

<u>Quantity</u>	<u>Unit</u>	<u>Description</u>	<u>Rate</u>	<u>Extension</u>	<u>Tax</u>	<u>Total</u>
25.69	MT	NON-HAZ SOIL				

TERMS AND CONDITIONS FOR DISPOSAL

User of this facility assume all liability for any injury or damage to person or property arising from or contributed to by users' failure to comply with procedures posted by GFL Environmental Inc. and/or instructions provided by a GFL Environmental Inc. attendant.

Customers represents and warrants that the description of the material deposited with GFL Environmental Inc. on the face hereof is accurate and that the waste does not, unless specifically noted on the face hereof, include any radioactive, volatile, corrosive, highly flammable, explosive, biomedical, infectious biohazardous, toxic, hazardous or special waste such terms are defined in applicable local, provincial or federal law. Customer agrees to indemnify and save GFL Environmental Inc, it's directors, officers and employees, harmless from any and all costs and expenses (including without limitation any fine or penalty imposed upon GFL Environmental Inc.) which GFL Environmental Inc. may incur arising from or as a result of any misrepresentation of the waste

Signature: _____

H.S.T # 84188 4893RT0001

APPENDIX VII
QUALIFICATIONS OF THE ASSESSORS

Position:	Project Manager, Toronto Office	
Qualifications:	Certified Engineering Technologist (C.E.T.), registered with O.A.C.E.T. Environmental Professional (E.P.), registered with the Canadian Environmental Certification Approvals Board (CECAB) Environmental Technologist Advanced Diploma Environmental Technician Diploma	
Experience:	Terrapex Environmental Ltd.	2008 to present
	The Wye Marsh Wildlife Centre	2007 to 2008
	Windfall Ecology Centre, Green Communities Ontario	2007 to 2008
	Central Lake Ontario Conservation Authority	2006

Ms. Sutherland is a Project Manager, coordinating and supervising site assessment projects for commercial, government, and developer clients. Ms. Sutherland has experience managing and conducting Phase I/One Environmental Site Assessments including; historical research, site inspection, report preparation, and Phase II/Two ESAs and monitoring programs. She has expertise with field combustible vapour surveys, waste audits, borehole drilling, well installation, topographical surveys, materials and supplies sourcing, test pit excavation, contaminated soil remedial excavation, removal of storage tanks, and the collecting of various media samples (soil, soil vapour, air, groundwater, surface water) in accordance with Provincial protocols.

Representative projects include the following:

Various Clients: Managed and supervised large work programs including Phase One and Two ESAs, remedial work, coordinating environmental, geotechnical, hydrogeological, and ecological aspects utilizing various employees from different departments and offices within the company, and assisting in the preparation of documents for the purposes of risk assessment and filing a RSC at various sites in Ontario, including industrial, commercial, residential, historical, and vacant properties.

Various Clients: Conducted Designated Substances Surveys for industrial, commercial and residential sites, for the purpose of identifying suspected locations of "designated substances" per Ontario Occupational Health and Safety Act.

Suncor Energy Products Partnership: Post-remedial excavation; supervised the installation of a reactive wall to provide an immediate and long-term source of biostimulants to promote biodegradation of any errant petroleum compounds potentially migrating downgradient.

Industrial Clients: Supervised soil vapour probe installation and conducted monitoring and sampling of soil vapours, utilizing various sampling media including: Tedlar bags using lung box, SUMMA canisters, hopcalite/charcoal/TD tubes, and passive air samplers.

Insurance Company: Reviewed multiple reports for multiple sites and summarizing site conditions, impacts, information deficiencies and regulatory actions required.

Safety Kleen Inc.: Coordinated and supervised the semi-annual Contaminant Management Plan. Conducted the Phase One ESA and supervised the Phase Two ESA, remedial excavations, application of oxidants to soil, and prepared the reports required in support of a Risk Assessment. Assisted in setting up and operating an on-site mobile water treatment system to collect and treat water discharged from the remedial excavations during the work program.

Developer: Managed a long-term hydrogeological assessment incorporating the installation and monitoring of on-site monitoring wells and mini piezometers, and recording surface flow parameters and/or water levels of on-site streams and waterbodies.

Cloud Data Centres: Conducted an Environmental Compliance Review and Audit to assess compliance with Ontario provincial regulations for areas that included: air emissions; waste management; discharges; spill prevention; and chemical storage and handling.

Education:	B.E.S. Environmental Studies	1983	University of Waterloo
	B.A.Sc. Geological Engineering (Management Sciences Option)	1987	University of Waterloo
Courses Completed:	Standard First Aid and CPR Petroleum Oriented Safety Training (POST) Workplace Hazardous Materials Information System (WHMIS) Basic Safety Orientation (BSO) Sarnia-Lambton Industrial Educational Cooperative (IEC)		
Professional Associations:	Licensed Professional Engineer, Association of Professional Engineers of Ontario Licensed Professional Geoscientist, Association of Professional Geoscientists of Ontario		

Mr. Ruminsky is the Manager, Hydrogeology and Toronto Branch Manager at Terrapex Environmental Ltd. He has over 30 years of experience in the management and assessment of contaminated sites, waste disposal sites and mine sites, and is qualified as a QP_{ESA} and QP_{RA} under the Ontario Ministry of Environment, Conservation and Parks' (MECP)'s Regulation 153/04. Prior to joining Terrapex, he was General Manager, Hydrogeology at Decommissioning Consulting Services Limited (DCS) and worked for eight years with the MOECC where he was a waste management hydrogeologist, responsible for hydrogeologic and site characterization reviews.

Mr. Ruminsky has overseen the preparation of all ranges of hydrogeological assessments, from those supporting site plan applications (City of Toronto) to applications for permits to take water (PTTW) to investigation and monitoring of contaminated sites, mine sites and landfills.

Representative projects include the following:

Prepared permit to take water (PTTW) application and Hydrogeologic Study to Support Category 3 PTTW for construction dewatering at Build Toronto's 411 Victoria Park Avenue site.

Completed hydrogeological assessment of proposed University of Toronto residence building in accordance with the City of Toronto's Hydrological Scope of Work (August, 2018) .

Project Director for hydrogeological investigation of proposed landfill expansion, United Counties of Stormont Dundas and Glengarry, Ontario. Investigation involved installation of 37 monitoring wells, monitoring and sampling of all newly installed wells and nine existing wells, and reporting in accordance with Ontario Regulation 232/98.

Prepared hydrogeological assessment and pre- and post-development water balance assessment of Mount Albert Pit fill site.

Completed wellhead Protection Area study and Risk Management Plan for site plan approval of a works yard in King Township (Schomberg). Work done in accordance with South Georgian Bay Lake Simcoe Source Protection Plan.

Prepared hydrogeologic assessments and obtained Category 3 PTTWs for remedial groundwater extraction programs at two former retail petroleum facilities.

Investigation of groundwater contamination in bedrock originating from the former Aerospace Maintenance and Development Unit (AMDU) landfill adjacent to Canadian Forces Base Trenton in Ontario.

Project manager for the hydrogeologic investigation of a former gasoline spill, Dies Property, Mohawks of Bay of Quinte (MBQ), near Shannonville, Ontario. Liaison with MBQ Band representatives, Department of Indian and Northern Affairs and Public Works and Government Services Canada staff.

Oversaw the preparation of annual groundwater monitoring reports for Inmet's Winston Lake minesite (Schrieber, Ontario) from 2004 through 2013.

Undertook the groundwater characterization of Inmet's Sturgeon Lake mine (Ignace, Ontario) and assisted the design team in preparing the tailings seep remediation plans for submission to the Ministry of the Environment.

Prepared the hydrogeological assessment and hydrogeological monitoring program for Algoma Steel's MacLeod Mine Closure Plan, and responded to Ontario Ministry of Northern Development and Mines' comments on the plan.

Supervised the hydrogeologic modeling for the Princess Mine closure plan in Sydney Mines, Nova Scotia.

Project lead (QP_{ESA}) for development of high-rise condominium in Brampton. Conducted shallow drilling program to confirm greater than 66% of the site has greater than 2 m of overburden, thus enabling use of less stringent Table 2 (versus Table 8) site standards. Oversaw hydrogeological assessment and groundwater pumping tests to evaluate construction and post-development groundwater flows in fractured bedrock environment.

Project lead for risk assessment (QP_{RA}) for redevelopment of former rail corridor and roundhouse (industrial) to residential land use in Midland, Ontario. Responsible for conducting Public Communication Plan, involving provision of notification to residents and responses to inquiries.

Technical leader (QP_{RA}) for completion of a risk assessment for the conversion of the former Algoma Street Incinerator (City of Toronto) to parkland land use. Also managed supplemental Phase 2 site characterization studies for the project and prepared environmental specifications for construction tender.

Oversight of remediation of former Dow Chemical lands in Sarnia, Ontario on behalf of the purchaser (TransAlta Corporation). Prepared environmental compliance approval (ECA) applications to permit redevelopment of the lands by commercial/industrial tenants. Management of semi-annual groundwater monitoring and reporting program.

Phase Two environmental site assessment and site remediation activities at a former Muskoka resort hotel (commercial land use) for redevelopment as recreational waterfront lots (residential land use).

Project manager and senior reviewer for screening level review (SLR) reports prepared for approximately 100 properties in the proposed Rouge National Urban Park (Markham-Pickering-Toronto Ontario).

Lead reviewer for historic review of approximately 100 retail petroleum and bulk petroleum facilities as part of a due diligence assessment. Project manager for Phase II investigation of six of the retail facilities.

Review of existing information for the Port Hope Small Scale Sites component of the Port Hope Area Initiative (PHAI). Files for 549 sites were reviewed; historical summaries were prepared and individual workplans were developed including borehole location plans, soil sampling plans and radiation survey recommendations.

Preparation of investigation program and conceptual remediation plan for Katedan Industrial District, Hyderabad, India.

Preparation of remedial options analysis and costing for chromium hazardous waste remediation, Hoogli District, West Bengal, India.