



May 30, 2024  
CO884.03

595831 Ontario Inc.  
650A Eagleson Road  
Kanata, Ontario  
K2M 1H4

Attention: Ms. Jade Hawkins  
General Manager

**Re: Remedial Soil Excavation  
5646 and 5650 Manotick Main Street, Ottawa, ON**

Dear Ms. Hawkins:

Terrapex Environmental Ltd. (Terrapex) was retained by 595831 Ontario Inc. (the Client, also known as Hawkins Properties) to provide management and environmental consultant services during a soil remediation at the adjacent properties with the municipal addresses of 5646 and 5650 Manotick Main Street in Ottawa, Ontario (hereafter collectively referred to as the Site). This report documents the remedial work completed at the Site between April 10, 2024, and April 25, 2024.

It is understood that the Client plans to redevelop the Site with a restaurant building and the purpose of the remediation is being completed in order to address City of Ottawa Site Plan Control comments requesting that the soil contamination present at the Site related to the former use of the Site as a retail fuel outlet be remediated prior to redevelopment.

The Site location is provided in Figure 1.

## **SITE DESCRIPTION**

The Site is located on the southwest side of Manotick Main Street, located to the west of the intersection with Mahogany Harbour Lane in Ottawa, Ontario. The Site is composed of two municipal addresses: 5646 Manotick Main Street pertaining to the northern portion of the Site, and 5650 Manotick Main Street pertaining to the southern portion of the Site. The Site is irregular in shape and occupies a total area of 4,090 m<sup>2</sup>. The general Site layout is provided in Figure 2.

## **BACKGROUND**

Terrapex previously completed a Phase One Environmental Assessment (ESA) for the Site. The findings were provided in the report entitled *Phase One Environmental Site Assessment, 5646 & 5650 Manotick Main Street Ottawa, Ontario*, dated December 16, 2022.

Based on the available information the Site was developed between 1946 and 1959. The northern portion of the Site (5646 Manotick Main Street) was a retail fuel outlet from 1965 to 2004. The northern portion of the Site is currently operated as a carwash with two residential units on the upper floor of the building. The southern portion of the Site (5650 Manotick Main Street) was developed into a residential property in 1940s.

Based on the review, evaluation, and interpretation of the information obtained from the records review, interviews, and Site reconnaissance completed as part of the Phase One ESA, four on-Site Potential Contaminating Activities (PCAs) and two off-Site PCAs relating to activities or incidents within the Phase One study area were identified. The four on-Site PCAs were determined to contribute to Areas of Potential Environmental Concern (APECs) on the Phase One property, as described below:

**PCA 1 / APEC 1(A/B):** The former underground storage tanks (USTs) and associated fuel pumps related to the former use of the Site as retail fuel outlet.

**PCA 2 / APEC 2:** The presence of fill of unknown quality and unknown origin during redevelopment of the Site in 1965.

**PCA 3 / APEC 3:** The former use of the commercial building as an automotive garage.

**PCA 6 / APEC 4:** Staining underneath the ride on lawn mower in the white shed.

**PCA 7 / APEC 5:** Carwash effluent emanating from the septic system.

Terrapex completed a Phase II Environmental Assessment (ESA) (referred to as the “2022 Phase II ESA”) for the Site in the fall 2022 in conjunction with a geotechnical investigation. The findings were provided in the report entitled *Phase II Environmental Site Assessment, 5646 & 5650 Manotick Main Street, Manotick (Ottawa), Ontario*, dated December 16, 2022.

To provide additional soil and groundwater information, Terrapex completed a supplemental Phase Two Environmental Assessment (ESA) (referred to as the “2023 Phase Two ESA”) for the Site in the fall 2023. The findings were provided in the report entitled *Phase Two Environmental Site Assessment, 5646 & 5650 Manotick Main Street, Ottawa, Ontario*, dated November 1, 2023. The following is a summary of both reports.

During the 2022 Phase II ESA, a total of thirteen boreholes (MW101, BH102 to BH108, MW109, BH 110, MW111, MW112 and BH113) were drilled across the Site to depths between 1.2 and 9.3 metres below grade (m bg), with four of the twelve boreholes completed as monitoring wells (MW101, MW109, MW111, and MW112). The sampling locations were selected to investigate, in part, the previously identified APECs and for geotechnical purposes at the proposed building locations. Select soil samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (collectively BTEX), petroleum hydrocarbon (PHC) F1 to F4 fractions (PHC F1 to F4), metals and inorganics.

To further investigate certain APECs, a supplemental investigation was completed in October 2023 that consisted of six additional boreholes (MW201, BH202, BH203, MW204, BH205 and MW206) were drilled to depths between 3.9 and 6.1 m bg, with three of the boreholes completed as monitoring wells (MW101, MW204 and MW206). Select soil and groundwater samples were submitted for laboratory analysis of BTEX, PHC F1 to F4, volatile organic compounds (VOCs), metals and inorganics and/or polycyclic aromatic hydrocarbons (PAHs).

Site Condition Standards (SCS) were determined using the criteria established by Ontario Regulation (O. Reg.) 153/04 Records of Site Condition - Part XV.1 of the Act. Based on the intended future use of the Site, the SCS for industrial/commercial/community land use in a potable groundwater situation, with medium to fine textured soil, as specified in Table 2 (hereafter referred to as the Table 2 SCS) of the Ministry of the Environment, Conservation, and Parks (MECP) April 15, 2011, *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the "Environmental Protection Act"* document (hereafter referenced as the *Standards*) were used to evaluate the laboratory analytical results.

A conceptual site model (CSM) for the Site was developed based on the results of the 2022 and 2023 assessments. Soil analytical results indicated that concentrations of the analytes in the soil samples submitted for analysis did not exceed the Table 2 SCS with the following exceptions:

- Concentrations of ethylbenzene and PHC F1 fraction were greater than the Table 2 SCS in sample MW112-2 (and blind duplicate sample MW112-12);
- Concentration of PHC F1 fraction was greater than the Table 2 SCS in sample MW204-4 (and blind duplicate sample MW1000);
- Concentrations of benzene and/or ethylbenzene were greater than the Table 2 SCS in samples BH205-3 and BH205-6 (benzene only);
- Concentrations of vanadium were greater than the Table 2 SCS in sample MW109-1B and MW3000 (blind duplicate of sample MW206-2);
- Electrical conductivity (EC) was greater than the Table 2 SCS in sample BH105-2; and,
- Sodium adsorption ratio (SAR) was greater than the Table 2 SCS in soil sample MW3000 (blind duplicate of sample MW206-2).

Laboratory analysis indicated that concentrations of the analytes in all groundwater samples submitted for analysis did not exceed the Table 2 SCS with the following exceptions:

- Groundwater sample MW112 (and its blind duplicate sample MW122) had concentrations of benzene and ethylbenzene greater than the Table 2 SCS; and,
- Groundwater sample MW206 had concentrations of chloride greater than the Table 2 SCS.

Terrapex recommended that a soil remediation be completed to remove the PHC impacted soil that exceeds the Table 2 SCS. The PHC impacts appeared related to the former pump island and UST tank nest from the former retail fuel outlet. A figure showing the PHC analytical results from the previous assessments (and also including test pits excavated as part of the current work program, further discussed below) prior to the site remediation are provided in Figure 3.

Note that concentrations of vanadium were greater than the Table 2 SCS in sample MW109-1B and MW3000 (blind duplicate of sample MW206-2). However, the vanadium concentrations were considered to be related to naturally elevated background concentrations in Ottawa Valley clay soils (Champlain Sea Clay) and the Table 2 SCS are not considered to have been exceeded in these two sampling locations based on O. Reg 153/04 Section 49.1 (3).

Further, EC was greater than the Table 2 SCS in sample BH105-2. However, the sample was collected from the parking lot area where road salt has been applied during the wintertime for safety of vehicles and pedestrian traffic. Based on the opinion of the Qualified Person (QP), the value for EC was deemed to have met the Table 2 SCS based on O. Reg 153/04 section 49.1 (1).

The concentrations of chloride in groundwater and SAR in soil (sample MW206-2) collected from borehole/monitoring well MW206 was likely the result of the effluent emanating from the carwash discharged through the septic system in the western portion of the Site.

## **STRATIGRAPHY AND HYDROGEOLOGY**

A 0.05 to 0.09 m layer of asphalt was present in the surface material for borehole BH202 and BH205, followed by a silty sand layer between 0.1 and 1.5 m bg. At borehole BH203 the silty sand layer was present at surface to a depth of 1.5 m bg. Borehole MW204, drilled in the former UST nest where sandy silt material was encountered from surface to 3.8 m bg. At borehole MW201 (drilled within the building on the 5646 Manotick Main Street property), a 0.10 m thick concrete slab was encountered at surface underlain by a gravel layer from 0.1 to 1.6 m bg. Underlying the silty sand and the gravel layer at these boreholes was a native clayey silt and or silty clay layer to the maximum depth of the investigation (6.1 m bg). Bedrock was not encountered during the investigation.

Based on monitoring data from October 2023, the depth to groundwater ranged from 1.32 m bg at MW204 to 3.09 m bg at MW109. The shallow horizontal groundwater flow across the Site was interpreted to the west/southwest towards Mahogany Creek located to the west of the Site. This groundwater flow direction is similar to the groundwater flow direction observed during the 2022 Phase II ESA. It is possible that the northern portions of the Site may be expected to have a flow direction towards the north towards the Rideau River (i.e., a hydrological divide is located on the Site).

## SITE CONDITION STANDARDS

The Site-specific details which influenced the soil and groundwater standards selection (as determined during the previous Phase Two ESA) 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 it does not include any land within 30 m of an area of natural significance, and is not otherwise considered "potentially sensitive";
- 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 this Phase Two ESA (including previous results) ranged from 7.14 to 8.16, which is between the prescribed values of 5 to 9 for the application of generic SCS;
- 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 this Phase Two ESA (including previous results) ranged from 7.27 to 8.09, which is between the prescribed values of 5 to 11 for the application of generic SCS;
- more than 2 m of overburden was observed over at least two-thirds of the area of the Site;
- the Site is not located within 30 m of a waterbody;
- stratified site conditions will not be used when evaluating laboratory analytical results;
- proposed future use of the Site is expected to be commercial;
- the Site and properties located (in whole or in part) within 250 m of the Site have a wells that are used or are intended for use as a source of water for human consumption or for agriculture; and,
- 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 "fine- to medium-textured" based on the result of grain size analysis conducted for three representative soil samples.

Based on the preceding information and assumptions, the SCS applicable for industrial/commercial/community land use for fine- to medium-textured soil in a potable groundwater condition that are described in Table 2 of the *Standards* have been selected for evaluating laboratory analytical results from the Site at this time.

Analytical results of the imported fill samples were compared to the Table 1 SCS, representative of background concentrations.

## OBJECTIVES

The objective of the work is to remediate all PHC impacted soil at the Site to meet the Table 2 SCS. It is understood that a Record of Site Condition (RSC) in accordance with the requirements of Ontario Regulation (O. Reg.) 153/04 is not required as there is no intended change in land use (i.e., the Site will remain for commercial use).

## SCOPE OF WORK

Terrapex's scope of work was conducted in general accordance with the Terrapex proposal entitled *Proposal for Supervision of Remediation 5646 and 5650 Manotick Main Street, Ottawa, ON*, dated April 3, 2024. Terrapex's scope of work included the following:

- Completing the notification on the Resource Productivity and Resource Authority (RRPA) registry as required by O. Reg. 406/19 (On-Site and Excess Soil Management) on behalf of the Client.
- Overseeing the excavation activities and directing the remedial excavation work based on field observations and analytical results.
- Supervising the management and disposal of soil and water at MECP licensed waste disposal facilities (as required).
- Documenting subsurface soil conditions within the excavation areas.
- Collecting confirmatory soil samples from the walls and floors of the completed excavation and logging of visual, olfactory, and tactile soil characteristics, and recording combustible soil vapour (CSV) readings for the collected soil samples.
- Submitting selected confirmatory soil samples from the remedial excavations for laboratory analysis of BTEX and PHC F1 to F4.
- Submitting soil samples for analysis of BTEX and PHC F1 to F4 from stockpiles segregated for possible reuse as backfill.
- Submitting soil samples from the imported backfill for analysis of BTEX, PHC F1 to F4, and metals.
- Tracking of time and materials, review of invoices, and waste disposal/management documentation.
- Preparing a factual summary report documenting observations and the results of analysis in comparison to the appropriate SCS.

A representative of the Client was present during the remediation at the Site and was the “constructor” per the Occupations Health and Safety Act (OSHA) for the project and oversaw the health and safety at the Site. The Client directly retained, Robert Gourlay Equipment Rentals (Gourlay) of Ottawa Ontario as excavator contractor for the completion of the excavation and the coordination of hauling services. Tasks that the Client conducted included overseeing management of the Site including health and safety, coordinating the public underground utility locates, coordination of soil disposal, groundwater management/disposal services, backfilling and Site restoration.

Laboratory analytical services for this work program were provided by the AGAT Laboratories (AGAT) of Mississauga, Ontario. At the time of this investigation, AGAT was accredited by the Canadian Association for Laboratory Accreditation (CALA) to International Standard ISO/IEC 17025:2017, *General Requirements for the Competence of Testing and Calibration Laboratories* for the parameters included in the analytical program.

## **FIELD PROGRAM**

Terrapex was on-Site periodically between April 10 and April 25, 2024, to complete remedial activities, including, completion of a test pit program, directing the excavation of the PHC-impacted soil, and collecting confirmatory soil samples. The remedial activities are further described below.

### **Preparation**

A kickoff meeting was held between Terrapex, Hawkins Properties and Gourlay on April 10, 2024. The kickoff meeting discussed project health and safety, the proposed schedule and methodology to complete the remedial excavation. Prior to the fieldwork, Terrapex confirmed that Hawkins Properties had arranged for the marking of underground utilities and had received the necessary clearances prior to initiating any excavation work.

Greg Sabourin, a qualified person (QP) as defined by O. Reg. 406/19, filed a notification on the RRPA excess soil registry (Notice ID: N00001330) on behalf of the Hawkins Properties to comply with the Rules for Soil Management and Excess Soil Quality Standards. Terrapex indicated that previous sampling indicated that the soil was impacted with concentrations of BTEX and PHCs that exceeded the Table 2 SCS and determined that the only practical disposal option for the impacted soil was to transport it to a landfill and/or dump. Letters for documenting this decision for the assessment of past uses (APU) and the Destination Assessment report were completed.

Based on the documentation provided, Greg van Loenen, the Environmental Compliance Office for the GFL Environmental Inc. Moose Creek landfill indicated that they could accept the importation of the PHC impacted soil present at the Site via email on February 20, 2024.

Documentation for supporting the excess soil registry is provided in Attachment A.

### **Test Pitting Program**

Terrapex was on-Site on April 12 and 15, 2024, to supervise the excavation of eight test pits (TP101 to TP108). The test pits were excavated by Gourlay using a John Deere 350 P excavator to a maximum depth of 5.5 m bg. Test pit locations were selected to further refine the areal extent of the PHC impacted soil in the vicinity of the former pump island and tank nest. The locations of the test pits are presented on Figure 3. Selected photographs are provided in Attachment B.

Soil samples were collected directly from the bucket of the excavator using fresh nitrile gloves and ensuring the sample had not contacted the surface of the excavator bucket. 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 laboratory supplied sampling containers. CSV readings were measured in the headspace of each screening sampling bag using an RKL Eagle II™ hydrocarbon surveyor, calibrated to n-hexane and operated in methane elimination mode.

Soil samples collected from test pits TP101, TP103, TP104, TP105 and TP108 were selected for laboratory analysis and submitted for analysis of BTEX and PHC F1 to F4. Samples were selected on the basis of CSV readings, visual and olfactory evidence of PHC impacts. For quality assurance/quality control (QA/QC) purposes a methanol blank was submitted for laboratory analysis of BTEX and PHC F1 as well. Soil samples were not submitted from test pits where visual and/or CSV measurements indicated contamination was present (TP102) or where other test pits had provided a tighter delineation.

Soil samples were collected directly into pre-cleaned, laboratory supplied containers with preservative (where required), placed in a cooler with ice, and transported with a signed chain-of-custody by Terrapex to the AGAT depot in Ottawa, Ontario prior to shipment to the laboratory in Mississauga, Ontario for analysis.

### **Remedial Activities**

On April 15, 2024, a remedial excavation was conducted in the vicinity of the former tank nest and borehole MW204 (referred to as "*the southern excavation*"). The remedial excavation was expanded as needed to remove the PHC-impacted soil based on olfactory and visual evidence of contamination. Excavated soil was segregated based on visual and olfactory observations. Soil with no apparent PHC impact (based on field observations) was stockpiled and sampled to determine if it was suitable for re-use as backfill material. The depth of the floor of the southern excavation was uniformly 4.0 m bg.



Between April 23 and 25, 2024, a remedial excavation was completed in the vicinity of the former pump island to remove PHC impacted soil associated with boreholes MW112 and MW204 (referred to as “northern excavation”). The northern excavation was expanded as needed to remove the PHC-impacted soil based on olfactory and visual evidence of contamination. Test pit analytical results and vapour conditions were also considered during the completion of the northern excavation. Excavated soil was segregated based on visual and olfactory observations. Soil with no apparent PHC impact (based on field observations) was stockpiled and sampled to determine if it was suitable for re-use as backfill material.

The eastern wall of the northern excavation extended to the eastern property line of the Site as marked by the Hawkins Properties representative. The final floor of the northern excavation ranged between 3.5 m to 4.0 m bg, except for a small portion of the excavation in the vicinity of borehole BH205 which was excavated to a depth of 5.0 m bg.

Both excavations were temporarily backfilled immediately after removal of all visually contaminated material and confirmatory soil sampling collection due to water infiltration and health and safety considerations.

A total of 520.68 metric tonnes (MT) of PHC-impacted soil was excavated from the remedial excavations. Between April 23 and 25, 2024, the impacted soil was shipped as non-hazardous solid waste for disposal at the GFL Environmental Inc. landfill located at 1725 Lafleche Road in Moose Creek, Ontario. A summary of the volume of impacted material sent for off-site disposal and the weigh tickets are provided in Attachment C.

### **Confirmatory Soil Sampling**

From April 15 to April 25, 2024, confirmatory soil samples were collected from the walls and floors of the completed remedial excavations in a grid pattern using an excavator operated by Gourlay. At least one sample was collected for SV screening for approximately every 5 m<sup>2</sup> of wall area and every 10 m<sup>2</sup> of floor area. 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 laboratory supplied sampling containers. CSV readings were measured in the headspace of each screening sampling bag using an RKI Eagle II™ hydrocarbon surveyor, calibrated to n-hexane and operated in methane elimination mode. To mitigate cross-contamination a fresh pair of nitrile gloves was worn when handling each soil sample.

Confirmatory soil samples submitted for laboratory analysis were selected on the basis of CSV readings and to provide representative coverage of the excavations. Soil samples were collected directly into pre-cleaned, laboratory supplied containers with preservative (where required), placed in a cooler with ice, and transported with a signed chain-of-custody by Terrapex to the AGAT depot in Ottawa, Ontario prior to shipment to the laboratory in Mississauga, Ontario for analysis.

Four confirmatory soil samples were submitted for laboratory analysis of BTEX and PHC F1 to F4 from the southern excavation as follows:

- One confirmatory soil sample (CS104) and one duplicate (CS104, duplicate of CS1004) was collected from the floor of the excavation.
- Two confirmatory soil samples (CS113 and CS125) were collected from the walls of the excavation.

The analytical results from soil samples from boreholes BH106 and MW204, collected during the previously assessment work, provided additional evidence of the horizontal and vertical extents of the PHC impacted soil at the former tank nest.

Seven soil samples were submitted for laboratory analysis of BTEX and PHC F1 to F4 from the northern excavation as follows:

- Three confirmatory soil samples (CS129, CS156 and CS191) were collected from the floor of the northern excavation.
- Three confirmatory soil sample (CS132, CS144 and CS167) and one duplicate (CS1167, duplicate of CS167) were collected from the walls of the northern excavation.

The analytical results from soil samples from test pits TP103 and TP104, collected during the test pitting, were also used for verification purposes for the southern and eastern walls of the excavation.

The extents of the remedial excavations are shown on Figure 4. The soil sample locations and CSV measurements are shown on Figure 5 for the southern and northern excavations.

### **Groundwater Management**

No significant groundwater accumulated in either of the excavations and therefore, groundwater management measures were not required during the completion of the remedial excavations.

### **Soil Stockpile Sampling**

During the excavation activities, approximately 400 tonnes of excavated soil, with no apparent indication of hydrocarbon impact, was segregated and placed into two stockpiles on-Site for potential reuse as backfill material. An excavator was used to collect representative soil samples throughout the stockpiles. Screening samples were collected based on the size of each stockpile. Using a RKI eagle II, the CSV of the screening soil samples were measured and the samples with the highest vapours (or to provide representative spatial coverage) were submitted for laboratory analysis of BTEX and PHC F1 to F4.

Stockpile soil samples submitted for laboratory analysis are as follows:

- Three soil samples from stockpile SP100 (SP101, SP103, and SP105) were submitted for laboratory analysis of BTEX and PHC F1 to F4.
- Three soil samples from stockpile SP200 (SP201, SP203 and SP205) were submitted for laboratory analysis of BTEX and PHC F1 to F4.

### **Imported Fill Sampling**

Sand fill was imported from the Greely Sand and Gravel quarry located at 5480 Bank Street, Ottawa, Ontario to backfill the excavations. Prior to importing the soil, Terrapex collected representative soil samples at the quarry and were submitted for laboratory analysis of BTEX, PHC F1 to F4, and metals. On April 12, 2024, ten soil samples (GS1 to GS10) and one duplicate (GS11, duplicate of GS10) were collected from the sand backfill. The number of fill samples submitted for analysis was based on the maximum volume fill expected to backfill the excavation to grade.

A total of 245.32 MT of sand backfill was imported to the Site to partially backfill the remedial excavations. Terrapex was not present during the importation of the sand fill which was completed between April 18 and 19, 2024. The volume of sand fill imported to the Site was provided by Hawkins Properties.

### **Site Restoration and Backfilling**

Following the receipt of laboratory results (confirming that no additional excavation was required), the backfill material was imported to the Site and placed in the remedial excavation. Terrapex was not on Site during the backfilling of the excavation. It was noted that the Site was not backfilled to grade due to the future anticipated development work to be completed.

## **RESULTS**

### **Subsurface Conditions**

The stratigraphy encountered in test pits TP101, TP102, TP103, TP104, TP106 and TP107 and TP108 consisted of surface cover of either asphalt or gravel followed by a sand and gravel fill of an approximate thickness of between 0.5 to 1.0 m, overlying a native silty clay which was encountered to the maximum depth of investigation of 5.5 m bg. At test pit TP105, the sand and gravel fill was encountered at a maximum depth of 2.5 m bg before encountering the native silty clay.

CSV concentrations in soil samples collected from the test pit TP102 ranged between 510 and less than 5 ppm. CSV concentrations in soil samples collected from test pit TP104 ranged between 75 and less than 5 ppm. All other test pits exhibited CSV measurements of less than 5 ppm. Test pits logs are provided in Attachment D.

The stratigraphy within the southern excavation consisted of gravel cover overlying sand and gravel fill from surface to a maximum depth 4.0 m underlain by native silty clay. Native silty clay was observed on the northern and eastern wall of the southern excavation. The southern and western walls of the southern excavation consisted of sand fill. CSV concentrations in all soil samples collected from the walls and floors of the southern excavation were all less than 5 parts per million by volume (ppm).

The stratigraphy within the northern excavation consisted of asphalt surface cover followed by a sand and gravel layer with thickness of 0.50 m, underlain by a native silty clay to the maximum depth of the excavation. CSV concentrations in all soil samples collected from the northern, western and southern walls and floors of the northern excavation were all less than 5 ppm. Soil samples collected from the eastern wall (i.e., the property boundary) ranged between 60% lower explosive limit (LEL) to less than 5 ppm.

Soil sample locations and CSV concentrations for the excavations are shown in Figure 5.

### **Soil Analytical Results**

Laboratory results for the soil samples submitted to AGAT for analysis are presented in Table 1 (metal parameters in imported fill samples), Table 2 (PHC parameters in imported fill samples), Table 3 (PHC parameters in test pit soil samples), Table 4 (PHC parameters in confirmatory soil samples), Table 5 (PHC parameters in the stockpile samples). Copies of the laboratory certificate of analysis are provided in Attachment E.

Summaries of the analytical results are provided in the sections below.

#### **Imported Fill Samples**

As shown in Table 1 and 2, concentrations of metals, BTEX and PHC F1 to F4 in the imported fill samples were less than the MECP Table 1 SCS. On that basis, soil was imported to the Site and used to backfill the excavation.

### Test Pit Soil Samples

As shown in Table 3, concentrations of BTEX and PHC F1 to F4 in the test pit soil samples submitted for laboratory analysis were less than the Table 2 SCS. The results from two test pit (samples TP103-4 and TP104-2) were utilized confirmatory soil samples of the final eastern and southern walls respectively of the northern excavation. The analytical results of the test pits results are provided in Figure 3, Figure 4 and Figure 5.

### Confirmatory Soil Samples

As shown in Table 4, concentrations of BTEX and PHC F1 to F4 in the confirmatory soil samples collected from the floors and walls of both excavations were less than the Table 2 SCS, except for confirmatory soil sample CS167 (and duplicate sample CS1067) collected from the eastern wall of the northern excavation. Confirmatory soil sample CS167 exhibited concentrations of PHC F1 greater than the Table 2 SCS. It should be noted that CS167 was collected from the eastern property line of the Site. The duplicate sample of CS167 (labelled as CS1067) exhibited concentrations of PHC F1 and ethylbenzene greater than the Table 2 SCS.

An analytical results figure showing the confirmatory soil samples is provided in Figure 5.

### Stockpile Samples

The concentrations of BTEX and PHC F1 to F4 in the stockpile samples from SP100 and SP200 were less than the Table 2 SCS in all soil samples. Further, all parameters were not detected at the laboratory.

Based on the results, all the stockpiled soil material was re-used on-Site to backfill the excavations.

### QA/QC Results

Quality Assurance and Quality Control (QA/QC) measures were implemented during the soil remediation in accordance with Terrapex Standard Operating Procedures. A summary of these measures follows.

During soil sampling, to mitigate cross-contamination fresh nitrile gloves were worn for the handling of each sample. Soil samples were collected directly from the bucket of the excavator using fresh nitrile gloves and ensuring the sample had not contacted the surface of the excavator bucket.

Pre-cleaned sample containers for the specific parameters of interest were provided by the laboratory and used at each borehole and monitoring well location for the collection of soil and groundwater samples. Samples for analyses were placed in an enclosed cooler with loose ice and shipped with a signed chain of custody and custody seals to the laboratory for chemical analysis.

The AGAT Labs QA/QC program consisted of the analysis of laboratory replicates, process, spiked and method blanks, process percent recoveries, matrix spikes, and surrogate percent recoveries as appropriate for the particular analysis protocol. A review of the quality assurance reports attached to the laboratory certificates of analysis indicate that the laboratory QA/QC program results were all within the quality control limits. No comments were made by AGAT in any of the certificate of analysis.

QA/QC samples submitted by Terrapex consisted of the following:

- one blind field duplicate soil sample (labelled as GS11) of soil sample GS10 was submitted for analysis of BTEX, PHC F1 to F4, metals and inorganics;
- one blind field duplicate soil sample (labelled as CS1004) of soil sample CS104 was submitted for analysis of BTEX and PHC F1-F4;
- one blind field duplicate soil sample (labelled as CS1067) of soil sample CS167 was submitted for analysis of BTEX and PHC F1-F4; and,
- five methanol blanks accompanying the soil samples for submissions of April 12, 15, 18, 23 and 25, 2024, were analyzed for BTEX and PHC F1.

Laboratory analytical results for Terrapex's QA/QC samples are provided in Table 1, Table 2, Table 3, Table 4 and Table 5 for the various samples and parameters. Copies of the laboratory certificates of analyses are provided in Attachment E.

Relative percent difference (RPD) for blind duplicate sample results is calculated as follows:

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

The RPDs were compared to an alert criterion of 30% for soil. However, RPDs as high as 50% are considered acceptable for volatile organic compounds in soil (e.g., BTEX and PHC F1).

The RPDs were not calculated where reported concentrations were less than five times the laboratory MDL. The RPD was not able to be calculated for confirmatory soil sample CS104 and GS10 and their respective duplicate pairs CS1004 and GS11 due to the analytical results being less than five times the MDLs for all parameters.

The alert criteria was exceeded for confirmatory soil sample CS167 and its duplicate pair CS1067 for ethylbenzene, xylenes and PHC F1. The elevated RPDs in these soil samples can likely be attributed to the heterogeneity in the soil stratigraphy. The elevated RPD is not expected to significantly affect the interpretation of the results as the soil sample and its duplicate pair both exceeded the Table 2 SCS for at least one parameter analysed.

The analytical results for the methanol blank samples indicated that all parameters were not detected at the laboratory MDL.

Overall, the QA/QC for the project is considered acceptable. The QA/QC results for the project does not indicate any significant concerns with data quality and does not affect the interpretation of the results. The laboratory QA/QC results are provided in the laboratory certificates of analysis in Attachment E.

## **SUMMARY AND CONCLUSIONS**

Terrapex was on Site between April 10 and April 25, 2024, to supervise, direct and document the remedial excavation program. The purpose of the remediation was to remediate all PHC impacted soil present at the Site. The remediation standard for the Site selected as the Table 2 SCS, which is consistent with previous assessment work complete at the Site. The excavation program was completed by under direct contract supervision of the Client, Hawkins Properties. Laboratory services were provided by AGAT Laboratories at their laboratory in Mississauga, Ontario.

Two remedial excavations were excavated at the Site. The final depths and extents of the excavations were determined based on field observations and analytical results, in addition to observations and analytical results from eight test pits excavated as part of the work program. A total of 520.68 MT of PHC-impacted soil was generated from the completion of both excavations. The impacted soil was removed for off-Site disposal as non-hazardous solid waste at the GFL Environmental Inc. landfill located at 1725 Lafleche Road Moose Creek, Ontario.

A total of 245.32 MT of sand backfill with concentrations of BTEX, PHC F1-F4, metals and inorganics that meet the Table 1 SCS was imported to the Site to partially backfill the remedial excavations.

Based on the analytical results and visual observations at the Site, all soil with concentrations of BTEX and/or PHC F1-F4 greater than MECP Table 2 SCS have been removed from the Site. Confirmatory soil samples collected from the eastern wall of the northern excavation (CS167) indicate that PHC impacted soil remains on the municipally owned right-of-way (ROW).

## REFERENCES

*Phase One Environmental Site Assessment, 5646 & 5650 Manotick Main Street Ottawa, Ontario, dated December 16, 2022.*

*Phase Two Environmental Site Assessment, 5646 & 5650 Manotick Main Street, Ottawa, Ontario, dated November 1, 2023.*

*Letter Subject: Site Plan Control Application 5646 and 5650 Manotick Main Street – First Submission Comments, To Jillian Simpson from City of Ottawa, Dated August 31, 2023*

## CLOSURE

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

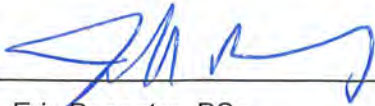
According to the terms of reference, the excavations were expanded laterally and vertically until the field objectives were met, or until further excavation was impractical. The reported information is believed to provide a reasonable representation of the general environmental conditions at the site; 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 Hawkins Properties. 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 Hawkins Properties.



**TERRAPEX ENVIRONMENTAL LTD.**

  
\_\_\_\_\_  
*for* Eric Boonstra, BSc  
Environmental Scientist

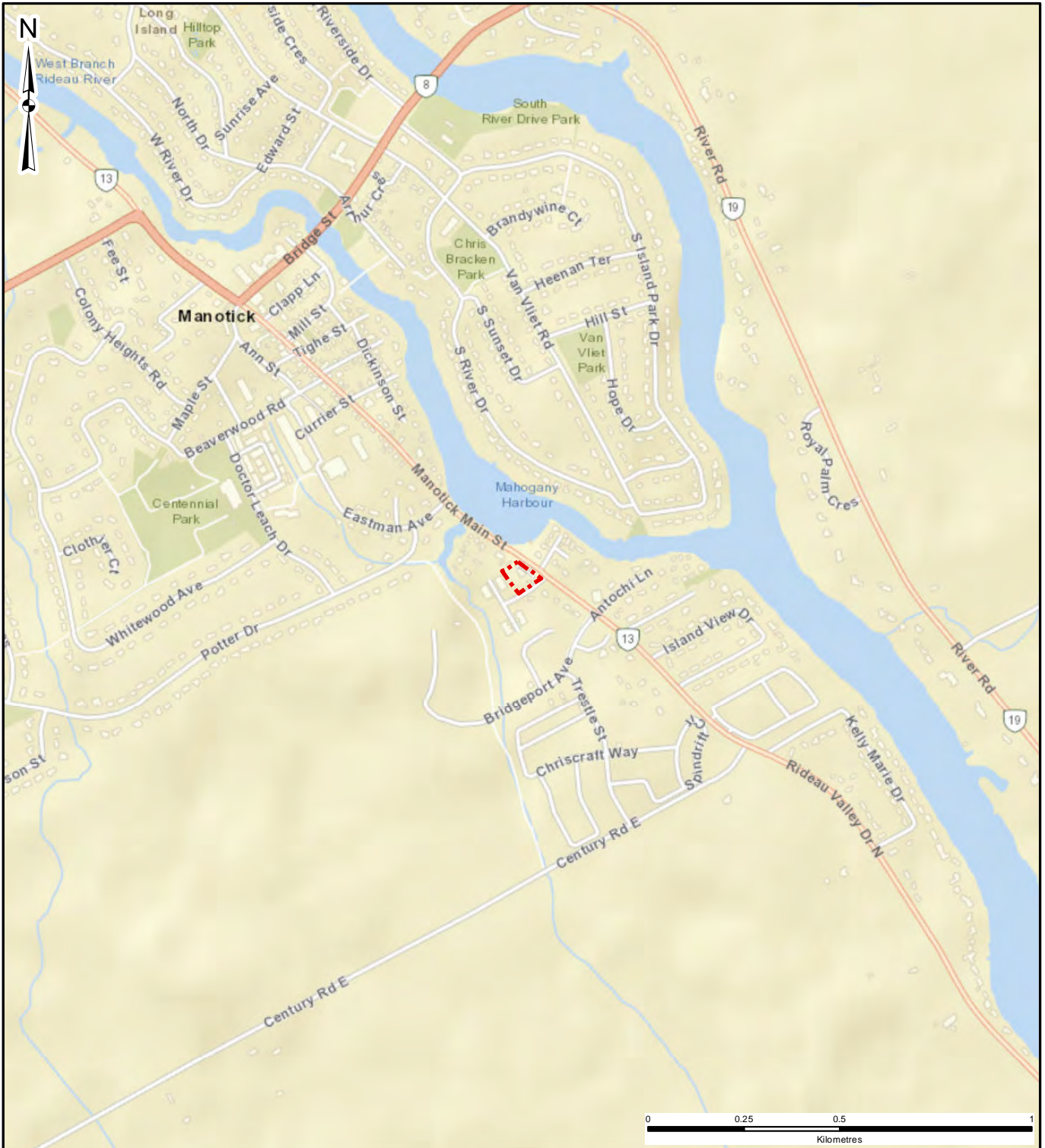
  
\_\_\_\_\_  
Greg Sabourin, PEng  
Project Manager

  
\_\_\_\_\_  
Keith Brown, PEng  
Senior Reviewer



- Attachments:*
- Figures 1, 2, 3, 4, and 5*
  - Tables 1, 2, 3, 4, and 5*
  - Site Photographs*
  - Waste Documentation*
  - Test Pit Logs*
  - Laboratory Certificates of Analyses*


## FIGURES



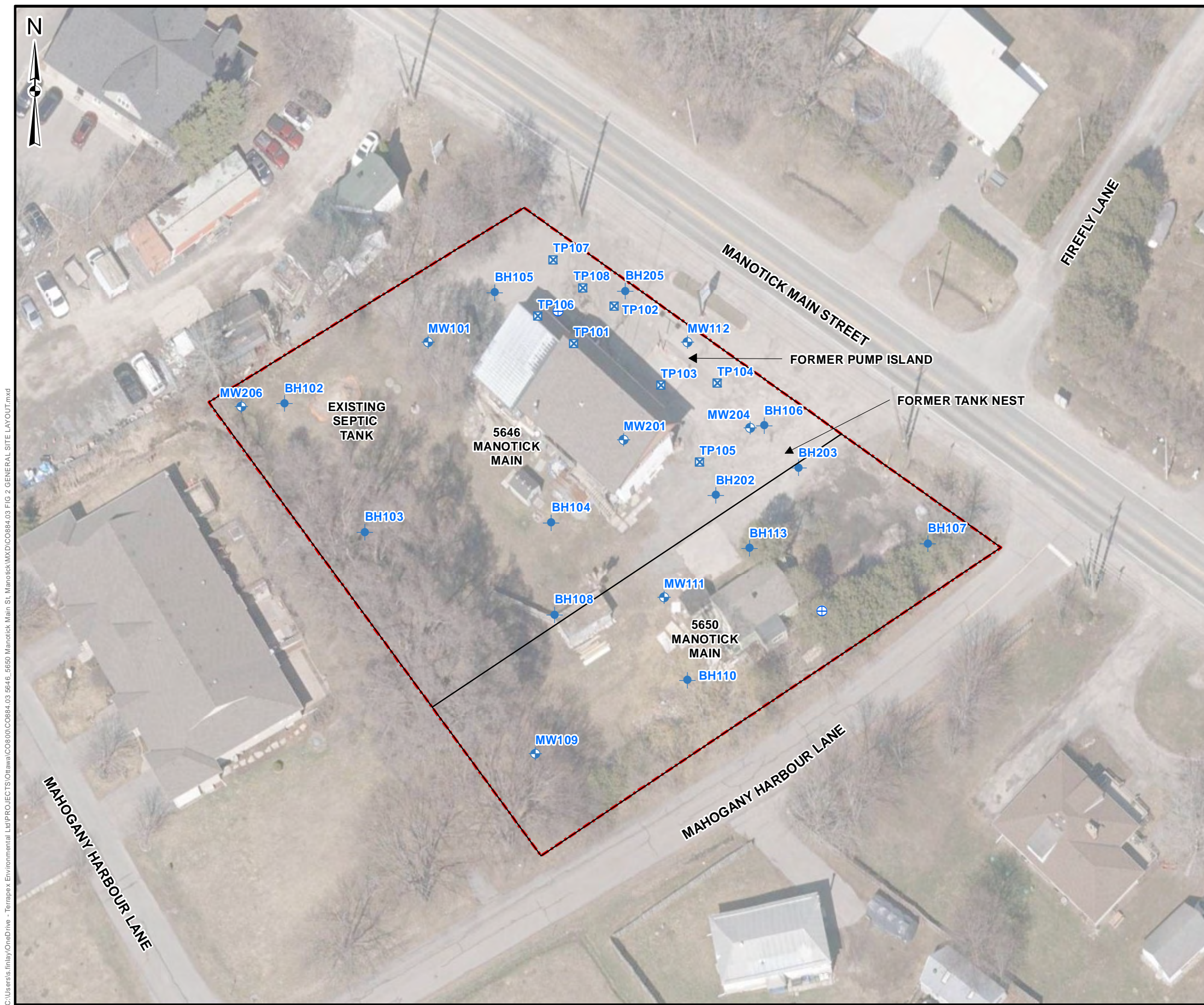
S:\Inlay\_C:\Users\rs.f\myOneDrive - TerraPex Environmental Ltd\PROJECTS\Ottawa\CO884.03 5646\_5650 Manotick Main St. Manotick\MXD\CO884.03 FIG 1 SITE LOCATION.mxd

**LEGEND**

 PROPERTY BOUNDARY

CLIENT: <b>HAWKINS PROPERTIES</b>		
SITE LOCATION: 5646 AND 5650 MANOTICK MAIN STREET MANOTICK, ONTARIO		
 <b>TERRAPEX</b>		
TITLE: <b>SITE LOCATION</b>		
DRAWN BY: JS	PROJECT NO.: CO884.03	CHECKED BY: GS
REVISION: 00	DATE: MAY 2024	<b>FIGURE: 1</b>

DATA SOURCE: ESRI  
MAP PROJECTION: NAD 1983 UTM Zone 18N



**LEGEND**

- PROPERTY BOUNDARY
- PARCEL FABRIC
- ⊕ DRINKING WATER WELL
- BOREHOLE
- ⊕ MONITORING WELL
- ⊠ TEST PIT

0 10 20 30  
Metres

DATA SOURCE: CITY OF OTTAWA  
MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:  
**HAWKINS PROPERTIES**

SITE LOCATION:  
**5646 AND 5650 MANOTICK MAIN STREET  
MANOTICK, ONTARIO**

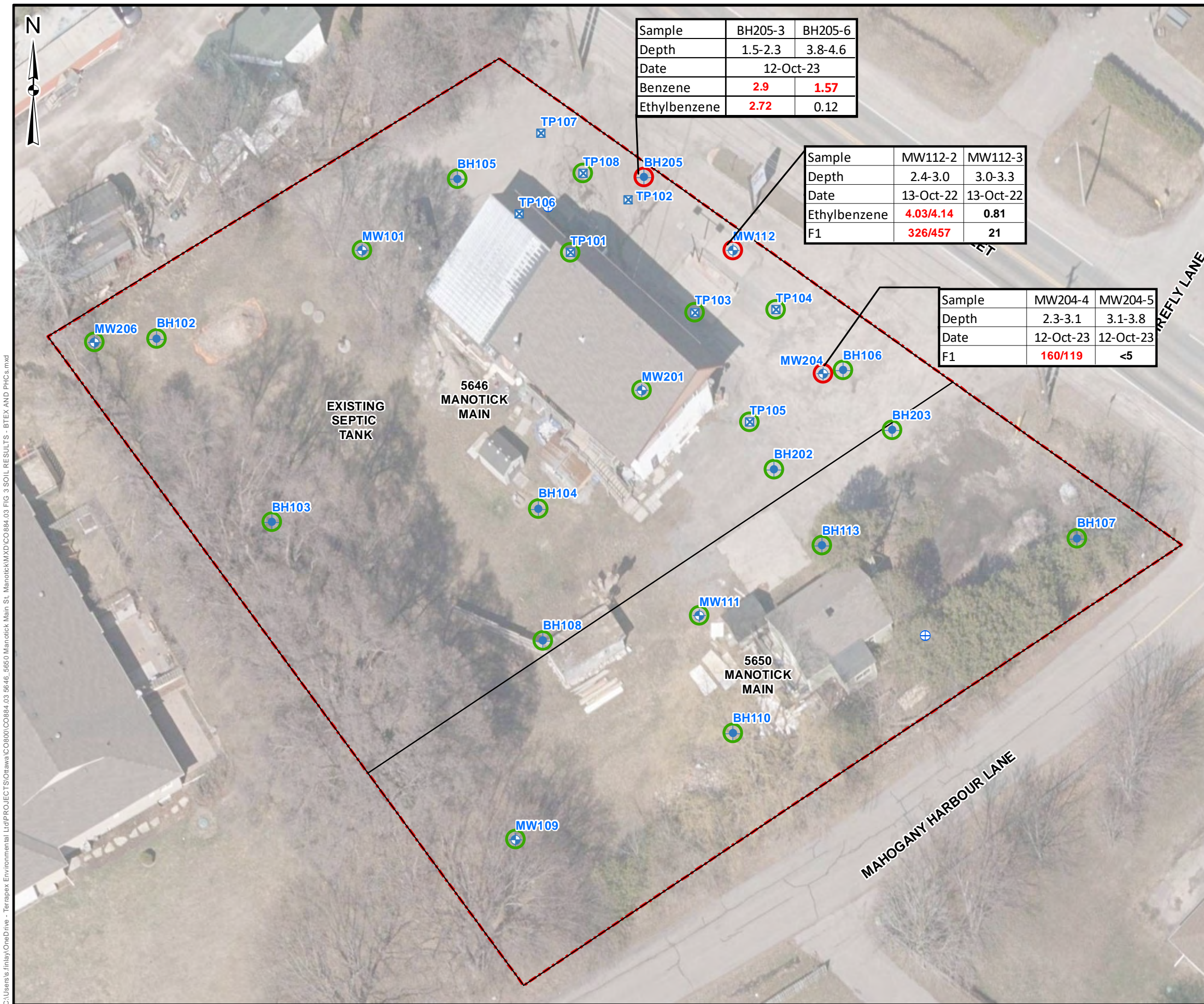


TITLE:  
**GENERAL SITE LAYOUT**

DRAWN BY: <b>JS/SF</b>	PROJECT NO.: <b>CO884.03</b>	CHECKED BY: <b>GS</b>
REVISION: <b>00</b>	DATE: <b>MAY 2024</b>	FIGURE: <b>2</b>

C:\Users\slinlay\OneDrive - Terrapex Environmental Ltd\PROJECTS\Ottawa\CO884.03\5646\_5650 Manotick Main St\_Manotick\MXD\CO884.03 FIG 2 GENERAL SITE LAYOUT.mxd

C:\Users\jfinlay\OneDrive - Terrapex Environmental Ltd\PROJECTS\Ottawa\CO884.03\5646\_5650 Manotick Main St. Manotick\MXD\CO884.03 FIG 3 SOIL RESULTS - BTEX AND PHCS.mxd



Sample	BH205-3	BH205-6
Depth	1.5-2.3	3.8-4.6
Date	12-Oct-23	
Benzene	2.9	1.57
Ethylbenzene	2.72	0.12

Sample	MW112-2	MW112-3
Depth	2.4-3.0	3.0-3.3
Date	13-Oct-22	13-Oct-22
Ethylbenzene	4.03/4.14	0.81
F1	326/457	21

Sample	MW204-4	MW204-5
Depth	2.3-3.1	3.1-3.8
Date	12-Oct-23	12-Oct-23
F1	160/119	<5

**LEGEND**

- PROPERTY BOUNDARY
- PARCEL FABRIC
- ⊕ DRINKING WATER WELL
- ⊙ BOREHOLE
- ⊕ MONITORING WELL
- ⊗ TEST PIT

**ANALYSIS INFORMATION**

- LESS THAN OR EQUAL TO TABLE 2 SCS
- GREATER THAN TABLE 2 SCS

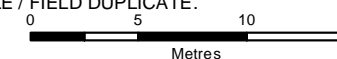
**STANDARD INFORMATION**

SAMPLE	DEPTH	DATE
PARAMETER	RESULT	
Benzene		
Ethylbenzene		
F1		

MECP TABLE 2 SCS
0.4
1.6
65

**VALUE** GREATER THAN SCS  
**VALUE** LESS THAN OR EQUAL TO SCS  
 MECP TABLE 2: FULL DEPTH GENERIC SCS IN A POTABLE GROUND WATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE WITH FINE TO MEDIUM TEXTURED SOIL.

- NOTES**
1. ALL UNITS ARE IN µg/g UNLESS OTHERWISE SPECIFIED
  2. DEPTHS ARE IN METRES BELOW GROUND SURFACE (mbgs)
  3. RESULTS PRESENTED AS # / # REPRESENTS PARENT SAMPLE / FIELD DUPLICATE.



DATA SOURCE: CITY OF OTTAWA  
 MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:  
**HAWKINS PROPERTIES**

SITE LOCATION:  
 5646 AND 5650 MANOTICK MAIN STREET  
 MANOTICK, ONTARIO



TITLE:  
**PRE-REMEDIATION SOIL ANALYTICAL RESULTS - BTEX / PHCS**

DRAWN BY: JS/SF	PROJECT NO.: CO884.03	CHECKED BY: GS
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REVISION: 00	DATE: MAY 2024	FIGURE: <b>3</b>
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Sample	CS167
Depth	2.5
Date	23-Apr-24
Ethylbenzene	1.14/8.71
F1	243/604

**LEGEND**

- PROPERTY BOUNDARY
  - PARCEL FABRIC
  - ⊕ DRINKING WATER WELL
  - BOREHOLE
  - ⊕ MONITORING WELL
  - ⊗ TEST PIT
  - ▲ CONFIRMATORY SOIL SAMPLE
  - NORTHERN EXCAVATION
  - SOUTHERN EXCAVATION
- ANALYSIS INFORMATION**
- LESS THAN OR EQUAL TO TABLE 2 SCS
  - GREATER THAN TABLE 2 SCS

**STANDARD INFORMATION**

SAMPLE	
DEPTH	
DATE	
PARAMETER	RESULT
Ethylbenzene	
F1	

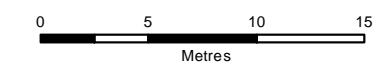
MECP TABLE 2 SCS	
Ethylbenzene	1.6
F1	65

**VALUE** GREATER THAN SCS  
**VALUE** LESS THAN OR EQUAL TO SCS

MECP TABLE 2: FULL DEPTH GENERIC SCS IN A POTABLE GROUND WATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE WITH FINE TO MEDIUM TEXTURED SOIL.

**NOTES**

1. ALL UNITS ARE IN µg/g UNLESS OTHERWISE SPECIFIED
2. DEPTHS ARE IN METRES BELOW GROUND SURFACE (mbgs)
3. RESULTS PRESENTED AS # / # REPRESENTS PARENT SAMPLE / FIELD DUPLICATE.



DATA SOURCE: CITY OF OTTAWA  
MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:  
**HAWKINS PROPERTIES**

SITE LOCATION:  
**5646 AND 5650 MANOTICK MAIN STREET,  
MANOTICK, ONTARIO**

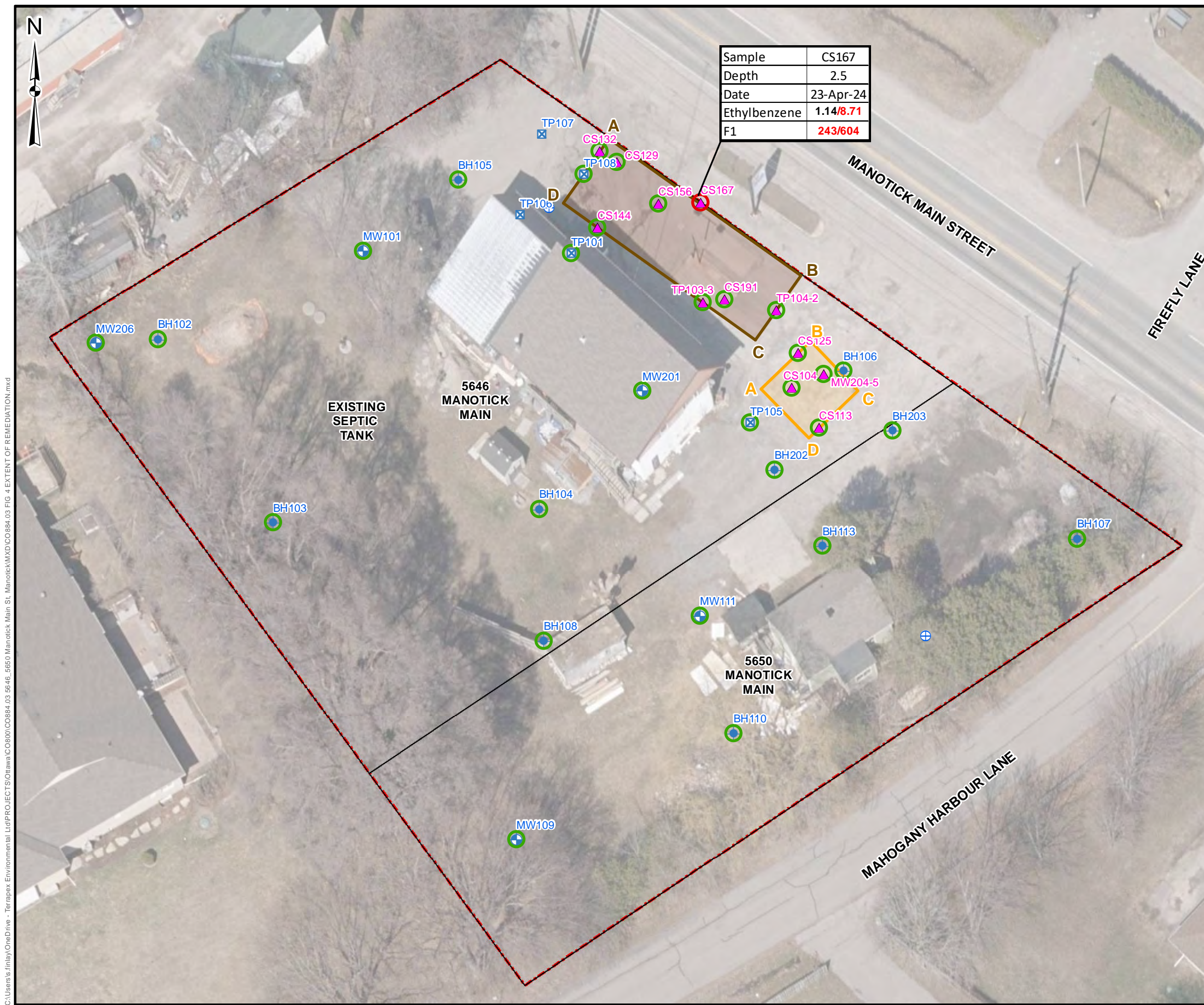


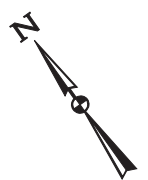
TITLE:  
**EXTENT OF REMEDIATION**

DRAWN BY: JS/SF	PROJECT NO.: CO884.03	CHECKED BY: GS
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REVISION: 00	DATE: MAY 2024	FIGURE: <b>4</b>
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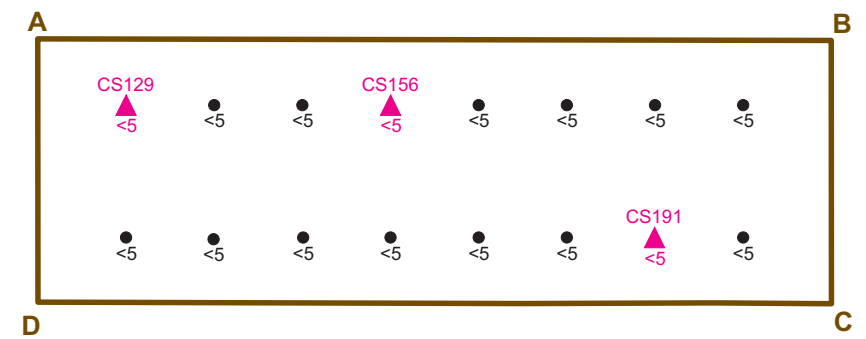
C:\Users\jfinlay\OneDrive - Terrapex Environmental Ltd\PROJECTS\Ottawa\CO884.03\5646\_5650 Manotick Main St. Manotick\MXDCO884.03 FIG 4 EXTENT OF REMEDIATION.mxd



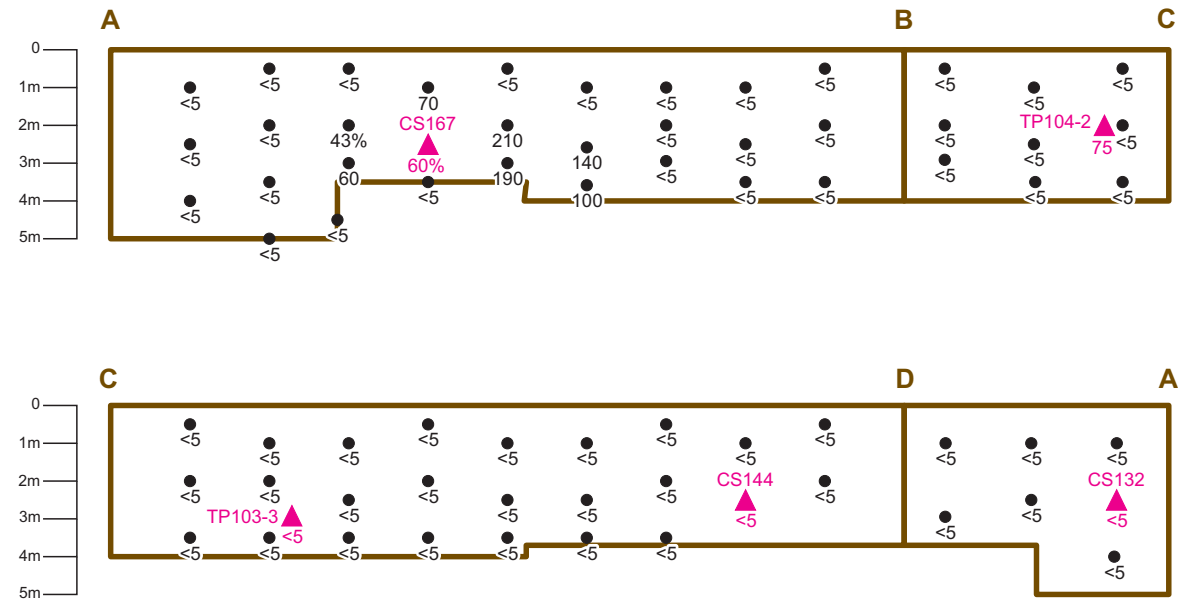


**NORTHERN EXCAVATION**

**PLAN VIEW**



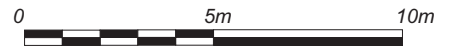
**WALL DIAGRAM**



**LEGEND**

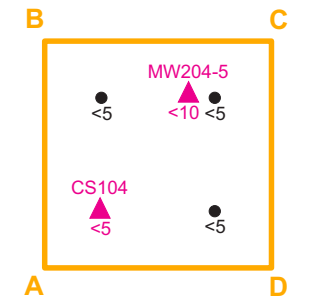
- 50 SOIL VAPOUR (SV) READING (PPM)
- ▲ 5 CONFIRMATORY SOIL SAMPLE AND SV READING

Note: Soil samples BH106-5B and MW204-5 were collected and analysed as part of the Phase II ESAs previously completed in 2022 and 2023 respectively.

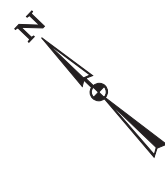
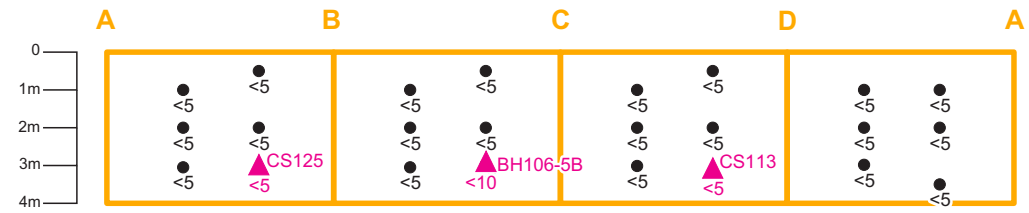


**SOUTHERN EXCAVATION**

**PLAN VIEW**



**WALL DIAGRAM**



CLIENT: HAWKINS PROPERTIES		
SITE LOCATION: 5646 AND 5650 MANOTICK MAIN STREET MANOTICK, ONTARIO		
TITLE: <b>CONFIRMATORY SOIL SAMPLE/ VAPOUR SURVEY</b>		
DRAWN BY: SF	PROJECT NO.: CO884.03	CHECKED BY: GS
REVISION: 00	DATE: MAY 2024	FIGURE: <b>5</b>

## TABLES



**TABLE 1: SOIL ANALYTICAL RESULTS - METALS AND INORGANICS  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

SAMPLE NAME	UNITS	STANDARDS Table 1 Non-Agricultural	GS1	GS2	GS3	GS4	GS5	GS6	GS7	GS8	GS9	GS10	GS11 Duplicate of GS10	RPD
Sampling Date	dd-mmm-yy	-	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	-
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	-
Certificate of Analysis No.	-	-	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	-
<b>METALS</b>														
Barium	ug/g	220	18.2	17.6	16.3	16.6	15.7	15.9	16.9	16.2	17.7	17.1	18.2	-
Beryllium	ug/g	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Boron (Total)	ug/g	36	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Cadmium	ug/g	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Chromium Total	ug/g	70	6	7	7	7	6	7	7	7	9	9	7	-
Cobalt	ug/g	21	3.2	3.4	3.1	3.7	2.9	3	3.1	3.1	3.5	4.1	3.3	-
Copper	ug/g	92	6.7	7.2	6.7	7.2	8.2	6.7	6.8	6.7	7.1	6.9	7.1	-
Lead	ug/g	120	2	2	2	2	2	2	2	2	2	2	2	-
Mercury	ug/g	0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-
Molybdenum	ug/g	2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Nickel	ug/g	82	5	6	5	5	5	5	5	5	6	6	5	-
Silver	ug/g	0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Thallium	ug/g	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Uranium	ug/g	2.5	<0.50	<0.50	<0.50	0.62	<0.50	<0.50	0.54	0.52	0.58	0.66	0.55	-
Vanadium	ug/g	86	14.6	17.8	16.3	18.9	15	16	18.1	20.7	25.5	23.5	16.5	-
Zinc	ug/g	290	11	11	10	11	10	10	10	11	10	11	11	-
<b>HYDRIDE-FORMING METALS</b>														
Antimony	ug/g	1.3	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-
Arsenic	ug/g	18	<1	<1	<1	<1	<1	<1	<1	<1	1	1	<1	-
Selenium	ug/g	1.5	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-

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 1: Full Depth Background SCS

Non-Agricultural Property-Use, Any Soil Texture

- Parameter not analyzed

m bg meters below grade

ppm parts per million by volume

% LEL percent of the lower explosive limit

RPD Relative percent difference

NV No Value; no standard established

NA Not Applicable; no standard established because a standard is not required

**Value** Exceeds standard

Value Detection limit exceeds standard

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

**TABLE 2: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

SAMPLE NAME	UNITS	STANDARDS Table 1 Non- Agricultural	GS1	GS2	GS3	GS4	GS5	GS6	GS7	GS8	GS9	GS10	GS11 Duplicate of GS10	RPD
Sampling Date	dd-mmm-yy	-	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	
Certificate of Analysis No.	-	-	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>														
Benzene	ug/g	0.020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
Toluene	ug/g	0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Ethylbenzene	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
m-Xylene & p-Xylene	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
o-Xylene	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Xylenes (Total)	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
<b>PETROLEUM HYDROCARBONS (PHCs)</b>														
Petroleum Hydrocarbons F1	ug/g	25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Petroleum Hydrocarbons F1-BTEX	ug/g	25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Petroleum Hydrocarbons F2	ug/g	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Petroleum Hydrocarbons F3	ug/g	240	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
Petroleum Hydrocarbons F4	ug/g	120	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-

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 1: Full Depth Background SCS

Non-Agricultural Property-Use, Any Soil Texture

-	Not analyzed
m bg	meters below grade
ppm	parts per million by volume
% LEL	percent of the lower explosive limit
NV	No Value; no standard established
NA	Not Applicable; no standard established because a standard is not required
RPD	Relative percent difference
<b>Value</b>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard
<sup>1</sup>	F1 fraction does not include BTEX

**TABLE 3: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

Sample Name	Units	STANDARDS Table 2 I/C/C fine/medium	TP101-4	TP103-4	TP104-2	TP105-4	TP108-2	Methanol Blank	Methanol Blank
Vapour Reading	see note	-	<5 ppm	<5 ppm	75 ppm	<5 ppm	15 ppm	-	-
Sample Depth	m bg	-	4.0	3.0	2.0	3.0	2.0	-	-
Sampling Date	dd-mmm-yy	-	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	15-Apr-24	12-Apr-24	15-Apr-24
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	17-Apr-24	16-Apr-24	17-Apr-24
Certificate of Analysis No.	-	-	24Z138772	24Z138772	24Z138772	24Z138772	24Z139246	24Z138772	24Z139246
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>									
Benzene	ug/g	0.40	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	9.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<b>PETROLEUM HYDROCARBONS (PHCs)</b>									
Petroleum Hydrocarbons F1 <sup>1</sup>	ug/g	65	<5	<5	22	<5	<5	<5	<5
Petroleum Hydrocarbons F2	ug/g	250	<10	<10	<10	<10	<10	-	-
Petroleum Hydrocarbons F3	ug/g	2,500	<50	<50	<50	<50	<50	-	-
Petroleum Hydrocarbons F4	ug/g	6,600	<50	<50	<50	<50	<50	-	-
Petroleum Hydrocarbons F4G	ug/g	6,600	NA	NA	NA	NA	NA	-	-

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

Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

ppm parts per million by volume

% LEL percent of the lower explosive limit

NV No Value; no standard established

NA Not Applicable; no standard established because a standard is not required

RPD Relative percent difference

**Value** Exceeds standard

Value Detection limit exceeds standard

<sup>1</sup> F1 fraction does not include BTEX

**TABLE 4: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

Sample Name	Units	STANDARDS Table 2 I/C/C fine/medium	CS104	CS1004 DUPLICATE OF CS104	RPD	CS113	CS125	CS129	CS132	CS144	CS156	CS167	CS1067 DUPLICATE OF CS167	RPD
Vapour Reading	see note	-	<5 ppm	-	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	60% LEL	-	-
Sample Depth	m bg	-	4.0	4.0	-	3.0	3.0	5.0	2.5	2.5	3.5	2.5	2.5	-
Sampling Date	dd-mmm-yy	-	18-Apr-24	18-Apr-24	-	18-Apr-24	18-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	-
Analysis Date (on or before)	dd-mmm-yy	-	24-Apr-24	24-Apr-24	-	24-Apr-24	24-Apr-24	24-Apr-24	29-Apr-24	29-Apr-24	25-Apr-24	1-May-24	1-May-24	-
Certificate of Analysis No.	-	-	24Z140682	24Z140682	-	24Z140682	24Z140682	24Z142310	24Z142312	24Z142312	24Z142833	24Z142834	24Z142834	-
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>														
Benzene	ug/g	0.40	<0.02	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
Toluene	ug/g	9.0	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	-
Ethylbenzene	ug/g	1.6	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.14	<b>8.71</b>	154%
Xylenes (Total)	ug/g	30	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.8	27.6	152%
<b>PETROLEUM HYDROCARBONS (PHCs)</b>														
Petroleum Hydrocarbons F1 <sup>1</sup>	ug/g	65	<5	<5	-	<5	<5	<5	<5	<5	<5	<b>243</b>	<b>604</b>	85%
Petroleum Hydrocarbons F2	ug/g	250	<10	<10	-	<10	<10	<10	<10	<10	<10	47	60	-
Petroleum Hydrocarbons F3	ug/g	2,500	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	-
Petroleum Hydrocarbons F4	ug/g	6,600	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	-
Petroleum Hydrocarbons F4G	ug/g	6,600	NA	NA	-	NA	NA	NA	NA	NA	NA	NA	NA	-

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

Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
ppm	parts per million by volume
% LEL	percent of the lower explosive limit
NV	No Value; no standard established
NA	Not Applicable; no standard established because a standard is not required
RPD	Relative percent difference
<b>Value</b>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard
<sup>1</sup>	F1 fraction does not include BTEX

**TABLE 4: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

Sample Name	Units	STANDARDS Table 2 I/C/C fine/medium	CS191	Methanol Blank	Methanol Blank
Vapour Reading	see note	-	<5 ppm	-	-
Sample Depth	m bg	-	4.0	-	-
Sampling Date	dd-mmm-yy	-	24-Apr-24	18-Apr-24	23-Apr-24
Analysis Date (on or before)	dd-mmm-yy	-	25-Apr-24	24-Apr-24	26-Apr-24
Certificate of Analysis No.	-	-	24Z142836	24Z140682	24Z142312
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>					
Benzene	ug/g	0.40	<0.02	<0.02	<0.02
Toluene	ug/g	9.0	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	<0.05	<0.05	<0.05
<b>PETROLEUM HYDROCARBONS (PHCs)</b>					
Petroleum Hydrocarbons F1 <sup>1</sup>	ug/g	65	<5	<5	<5
Petroleum Hydrocarbons F2	ug/g	250	<10	-	-
Petroleum Hydrocarbons F3	ug/g	2,500	<50	-	-
Petroleum Hydrocarbons F4	ug/g	6,600	<50	-	-
Petroleum Hydrocarbons F4G	ug/g	6,600	NA	-	-

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

Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
ppm	parts per million by volume
% LEL	percent of the lower explosive limit
NV	No Value; no standard established
NA	Not Applicable; no standard established because a standard is not required
RPD	Relative percent difference
<b>Value</b>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard
<sup>1</sup>	F1 fraction does not include BTEX

**TABLE 5: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

Sample Name	Units	STANDARDS Table 2 I/C/C fine/medium	SP101	SP103	SP105	SP201	SP203	SP205	Methanol Blank	Methanol Blank
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	-	-
Sampling Date	dd-mmm-yy	-	23-Apr-24	23-Apr-24	23-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	23-Apr-24	25-Apr-24
Analysis Date (on or before)	dd-mmm-yy	-	1-May-24	1-May-24	1-May-24	30-Apr-24	30-Apr-24	30-Apr-24	1-May-24	30-Apr-24
Certificate of Analysis No.	-	-	24Z142834	24Z142834	24Z142834	24Z143377	24Z143377	24Z143377	24Z142834	24Z143377
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>										
Benzene	ug/g	0.40	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	9.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<b>PETROLEUM HYDROCARBONS (PHCs)</b>										
Petroleum Hydrocarbons F1 <sup>1</sup>	ug/g	65	<5	<5	<5	<5	<5	<5	<5	<5
Petroleum Hydrocarbons F2	ug/g	250	<10	<10	<10	<10	<10	<10	-	-
Petroleum Hydrocarbons F3	ug/g	2,500	<50	<50	<50	<50	<50	<50	-	-
Petroleum Hydrocarbons F4	ug/g	6,600	<50	<50	<50	<50	<50	<50	-	-
Petroleum Hydrocarbons F4G	ug/g	6,600	NA	NA	NA	NA	NA	NA	-	-

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  
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
ppm	parts per million by volume
% LEL	percent of the lower explosive limit
NV	No Value; no standard established
NA	Not Applicable; no standard established because a standard is not required
RPD	Relative percent difference
<b>Value</b>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard
<sup>1</sup>	F1 fraction does not include BTEX

**ATTACHMENT A**  
**EXCESS SOIL REGISTRY DOCUMENTATION**



May 30, 2024  
CO884.03

Hawkins Properties (595831 Ontario Inc.)  
1220 Potter Drive  
Ottawa, Ontario  
K4M 1C8

Attention: Jade Hawkins  
General Manager

Re: **Excess Soils**  
**Assessment of Past Uses**  
5646 and 5650 Manotick Main Street, Ottawa, Ontario

Dear Ms. Hawkins,

Further to your request, Terrapex Environmental Ltd. (Terrapex) is pleased to provide this Assessment of Past Uses report, as required for under Ontario Regulation (O.Reg.) 406/19, for removal of contaminated soil from the property located at 5646 and 5650 Manotick Main Street, Ottawa, Ontario (the Site), for disposal at a licensed landfill facility, to facilitate the remediation of the properties.

The *Phase Two Environmental 5646 & 5650 Manotick Main Street, Ottawa Ontario* completed by Terrapex and dated November 1, 2023, indicated that the soil present in the vicinity of the former tank nest and pump islands, present at a depth of approximately 1.5 to 5.0 m bg at the Site do not meet the O.Reg. 153/04 Table 3 Site Condition Standards. The intent is to remediate environmental soil impacts at the site by excavation of impacted soils for off-site disposal at a licensed landfill facility. Soils removed off-site for this purpose will become "Excess Soils" as per O.Reg 406/19.

As per O.Reg.406/19, Section 11(3), as existing site data collected has confirmed the presence of contaminated soils at the site that are likely to become "Excess Soils" under the Regulation, then these past assessment activities and data are deemed to satisfy the requirements for an Assessment of Past Uses Report.

Furthermore, it is the opinion of the Qualified Person that any soils at the site with concentrations of contaminants exceeding the Table 2 Site Condition Standards are unsuitable for re-use at this site, or any other property, and that the only practical remedial option is off-site disposal at a licensed landfill facility. As such, in accordance with Section B, Subsection 2 (6) of the Rules for Soil Management and Excess Soil Quality Standards, the sampling and analysis requirements set out in Section B will not be followed.



## **CLOSURE**

The work described herein was conducted in accordance with the terms of reference for this project, agreed upon by Hawkins Properties and Terrapex Environmental Ltd. Terrapex Environmental Ltd. has exercised due care, diligence, and judgement in the performance of this assessment; however, studies of this nature have inherent limitations. This report is intended to provide only a general assessment of substances of concern that may be present at the site. By necessity, the findings and observations regarding actual or potential presence of such substances are based solely on the extent of observations and information gathered during the assessment, and subsequent investigations of differing scope may reveal conflicting results.

This report has been prepared for the sole use of Hawkins Properties. Terrapex Environmental Ltd. 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 Hawkins Properties.

Sincerely,

**TERRAPEX ENVIRONMENTAL LTD.**

Greg Sabourin, P.Eng.  
Project Manager  
Qualified Person



May 30, 2024  
CO884.03

Hawkins Properties (595831 Ontario Inc.)  
1220 Potter Drive  
Ottawa, Ontario  
K4M 1C8

Attention: Jade Hawkins  
General Manager

Re: **Excess Soils  
Destination Assessment Report**  
5646 and 5650 Manotick Main Street, Ottawa, Ontario

Dear Ms. Hawkins,

Further to your request, Terrapex Environmental Ltd. (Terrapex) is pleased to provide this Destination Assessment Report, as required for under Ontario Regulation (O.Reg.) 406/19, for removal of contaminated soil from the properties located at 5646 and 5650 Manotick Main Street, Ottawa, Ontario (the Site), for disposal at a licensed landfill facility, to facilitate the remediation of the properties.

Prior assessment activities at the Site have indicated the presence of contaminated soils with concentrations of petroleum hydrocarbon-related parameters exceeding the Ontario Regulation (O.Reg.) 153/04 Table 3 Site Condition Standards. The intent is to dispose of all impacted soil excavated during the Site upgrade work and transport it off-site for disposal at a licensed landfill facility.

It is the opinion of the Qualified Person that base on available results and field observations all soils excavated at the Site can be inferred to have concentrations of contaminants exceeding the Table 3 Site Condition Standards, and similarly exceeding the Table 2 Site Condition Standards, are unsuitable for re-use at this site, or any other property, and that the only practical option is off-site disposal at a licensed landfill facility. No other Excess Soils are expected to be generated at the Site during the remediation.

Estimated Volume of Excess Soil: 1800 m<sup>3</sup>

Contaminated Excess Soils will be removed off-site for disposal at:

Company Name: GFL  
Street: 17125 Lafleche Rd.  
City: Moose Creek  
Province: ON  
Postal Code: K0A 1M0

Governing Instrument: Environmental Compliance Approval NUMBER 8197-6NYJXP

Contingent Disposal Site: None

Processing of Excess Soils Prior to Removal: None

Approximate Date of Soil Movement: April and May 2024

Excess Soil Expected to Meet Table 2.1: None

Fill Management Plan: Not required/developed

## **CLOSURE**

The work described herein was conducted in accordance with the terms of reference for this project, agreed upon by Hawkins Properties and Terrapex Environmental Ltd.

Terrapex Environmental Ltd. has exercised due care, diligence, and judgement in the performance of this assessment; however, studies of this nature have inherent limitations. This report is intended to provide only a general assessment of substances of concern that may be present within the building at the site. By necessity, the findings and observations regarding actual or potential presence of such substances are based solely on the extent of observations and information gathered during the assessment, and subsequent investigations of differing scope may reveal conflicting results.

This report has been prepared for the sole use of Suncor. Terrapex Environmental Ltd. 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 Suncor.

Sincerely,

**TERRAPEX ENVIRONMENTAL LTD.**

Greg Sabourin, P.Eng..  
Project Manager

## Notice Details

Company Name	<b>Terrapex</b>
Notice ID	<b>N00001330</b>
Filing Type	<b>Project Area Notice</b>
Submission Status	<b>In Progress</b>
Notice last updated by	<b>Greg Sabourin on Apr 18, 2024 12:25 PM</b>

## Pre-Screening Questions

Review the notice filing requirements for project areas to ensure you are required to submit a notice before you begin your submission. For more information, visit our Excess Soil [webpage](#). If you voluntarily file a project area notice, you will be required to pay the applicable fees and your notice will be publicly available.  
Do you wish to proceed?

**Yes**

## Contact Details

Contact Name	<b>Robert Gourlay</b>
Contact Type	<b>Operator</b>
Company Name	<b>Robert Gourlay Equipment</b>
Email	<b>bobgourlay@sympatico.ca</b>
Business Phone Number	<b>6138228722</b>
Address	<b>6431 Bank Street, Ottawa, Ontario, K0A 2P0</b>

---

Contact Name	<b>Domenic LaDuca</b>
Contact Type	<b>Project Leader</b>
Company Name	<b>Hawkins Properties</b>

Email **mladuca@hawkinsproperties.org**  
Business Phone Number **6135396440**  
Address **650a Eagleson Road, Kanata, Ontario, K2M1h4**

---

Contact Name **Gregory Sabourin**  
Contact Type **Authorized Person**  
Company Name **Terrapex Environmental Inc.**  
Email **g.sabourin@terrapex.com**  
Business Phone Number **6135587571**  
Address **20 Gurdwara ON, Ottawa, Ontario, K2E 8B3**

---

Contact Name **Robert Gourlay**  
Contact Type **Responsible for Transportation**  
Company Name **Robert Gourlay Equipment**  
Email **bobgourlay@sympatico.ca**  
Business Phone Number **6138228722**  
Address **6431 Bank Street, Ottawa, Ontario, K0A2P0**

---

## Project Details

Project Type **Soil remediation**  
Project Name **MM24/25**  
Description of the Project **Remedial Excavation of petroleum impacted soil at a former retail fuel outlet.**  
Description of the Location of the Project Area **Former retail fuel outlet at 5650 Manotick Main Street, Ottawa, Ontario**

---

## Property Locations

Property Type	<b>Non-linear Property</b>
Primary Property	<input checked="" type="checkbox"/>
Municipality	<b>Ottawa, City of</b>
Property Description	<b>Former retail fuel outlet located at the southern side of Manotick Main Street</b>
Latitude	<b>45.220121</b>
Longitude	<b>-75.676855</b>
Legal Description of the Property	<b>Part of Lot 4, Concession A North Gower (aka Concession Broken Front)</b>

---

## Qualified Person retained to prepare or oversee the preparation of documents

Was a Qualified Person retained to prepare or oversee the preparation of documents required under the regulation? **Yes**

Contact Name	<b>Gregory Sabourin</b>
Company Name	<b>Terrapex Environmental Ltd.</b>
Email	<b>g.sabourin@terrapex.com</b>
Business Phone Number	<b>6135587571</b>
Address	<b>20 Gurdwara Road, Ottawa, Ontario, K2E 8B3</b>

---

## Peer Review or Certification Process

Was a peer review or certification process undertaken for this project? **No**

---

## Soil Details

### Applicable Excess Soil Quality Standards

Table	Type of Property Use	Estimated Amount of Excess Soil (m3)
Does not meet a standard	Not Applicable	<b>1500</b>
	Total Estimated Amount of Excess Soil (m3)	<b>1500.00</b>

### List of Substances

Use of Substance	Category	Name of Substance
------------------	----------	-------------------

### Destination Sites

Site Type	<b>Landfill or Dump</b>
Site Name	<b>GFL Moose Creek Landfill</b>
Location	<b>17125 LaFleche Road, Moose Creek, Ontario, KOC1W0, Ontario KOC1W0 Canada</b>
Community	<b>North Stormont, Township of</b>
Latitude	<b>45.30693</b>
Longitude	<b>-74.995858</b>
Estimated Amount of Excess Soil (m3)	<b>1500</b>

**ATTACHMENT B**  
**SITE PHOTOGRAPHS**



**Client:** 595831 Ontario Inc.**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON**Project No:** CO884.03**Photo No:** 1**Date:** April 15, 2024**Viewing Direction:** southwest**Description:**

View of test pit TP108.

**Photo No:** 2**Date:** April 15, 2024**Viewing Direction:** west**Description:**

View of test pit TP108.



**Client:** 595831 Ontario Inc.**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON**Project No:** CO884.03**Photo No:** 3**Date:** April 18, 2024**Viewing Direction:** northwest**Description:**

View of the area of the southern excavation.

**Photo No:** 4**Date:** April 18, 2024**Viewing Direction:** southeast**Description:**

View of the area of the southern excavation.



**Client:** 595831 Ontario Inc.

**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON

**Project No:** CO884.03

**Photo No:** 5

**Date:** April 23, 2024

**Viewing Direction:** northwest

**Description:**

View of the clean stockpile SP200.



**Photo No:** 6

**Date:** April 18, 2024

**Viewing Direction:** northwest

**Description:**

View of the clean stockpile SP100.



**Client:** 595831 Ontario Inc.**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON**Project No:** CO884.03**Photo No:** 7**Date:** April 18, 2024**Viewing Direction:** southeast**Description:**

View of stockpiled contaminated soil.

**Photo No:** 8**Date:** April 18, 2024**Viewing Direction:** west**Description:**

View of the final dimension of the southern excavation.



**Client:** 595831 Ontario Inc.

**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON

**Project No:** CO884.03

**Photo No:** 9

**Date:** April 24, 2024

**Viewing Direction:**  
east

**Description:**

View of the central portion of the northern excavation and the removal of MW112.


**Photo No:** 10

**Date:** April 23, 2024

**Viewing Direction:**  
south

**Description:**

View of the northern excavation along the eastern property line (east wall).



**Client:** 595831 Ontario Inc.**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON**Project No:** CO884.03**Photo No:** 11**Date:** April 24, 2024**Viewing Direction:**  
southwest**Description:**

View of the shipping of contaminated soil.



**ATTACHMENT C**  
**WASTE DOCUMENTATION**

## Moose Creek Weigh Bills

Ticket Number	Date (entered Moose Creek)	Qt. (kg)	
1	611412	23-Apr-24	31950
2	611459	24-Apr-24	27610
3	611449	24-Apr-24	36140
4	611465	24-Apr-24	45610
5	611471	24-Apr-24	26730
6	611474	24-Apr-24	14680
7	611517	24-Apr-24	24080
8	611525	24-Apr-24	21010
9	611532	24-Apr-24	19960
10	611539	24-Apr-24	19030
11	611550	24-Apr-24	34780
12	611587	24-Apr-24	18550
13	611589	24-Apr-24	12020
14	611579	24-Apr-24	23770
15	611605	25-Apr-24	21210
16	611645	25-Apr-24	27650
17	611655	25-Apr-24	15690
18	611662	25-Apr-24	26410
19	611669	25-Apr-24	27400
20	611930	25-Apr-24	46400
			520680
			<b>520.68</b>





TICKET#: 611412

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 23/04/2024 8:20 am  
EXIT: 23/04/2024 8:20 am

VEHICLE #: PA27014  
CONTAINER:  
LICENSE:  
REFERENCE: GFL MANUAL #29831

GROSS 51600 kg Manual  
TARE 19650 kg Manual  
NET 31950 kg

Qty Unit Description  
31.95 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611412

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 23/04/2024 8:20 am  
EXIT: 23/04/2024 8:20 am

VEHICLE: PA27014  
CONTAINER:  
LICENSE:  
REFERENCE: GFL MANUAL #29831

GROSS 51600 kg k Manual  
TARE 19650 kg Manual  
NET 31950 kg

QTY Unit Description  
31.95 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611459

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:27 am  
EXIT: 24/04/2024 10:51 am

VEHICLE #: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 48730 kg Scale In  
TARE 21120 kg Scale Out  
NET 27610 kg

Qty Unit Description  
27.61 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611459

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:27 am  
EXIT: 24/04/2024 10:51 am

VEHICLE: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 48730 kg k Scale In  
TARE 21120 kg Scale Out  
NET 27610 kg

QTY Unit Description  
27.61 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611449

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:10 am  
EXIT: 24/04/2024 10:31 am

VEHICLE #: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 57070 kg Scale In  
TARE 20930 kg Scale Out  
NET 36140 kg

Qty Unit Description  
36.14 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611449

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:10 am  
EXIT: 24/04/2024 10:31 am

VEHICLE: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 57070 kg k Scale In  
TARE 20930 kg Scale Out  
NET 36140 kg

QTY Unit Description  
36.14 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611465

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:30 am  
EXIT: 24/04/2024 11:12 am

VEHICLE #: PA34310  
CONTAINER:  
LICENSE: PA34310  
REFERENCE:

GROSS 65630 kg Scale In  
TARE 20020 kg Scale Out  
NET 45610 kg

Qty Unit Description  
45.61 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611465

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:30 am  
EXIT: 24/04/2024 11:12 am

VEHICLE: PA34310  
CONTAINER:  
LICENSE: PA34310  
REFERENCE:

GROSS 65630 kg k Scale In  
TARE 20020 kg Scale Out  
NET 45610 kg

QTY Unit Description  
45.61 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611471

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:50 am  
EXIT: 24/04/2024 11:18 am

VEHICLE #: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 46690 kg Scale In  
TARE 19960 kg Scale Out  
NET 26730 kg

Qty Unit Description  
26.73 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611471

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:50 am  
EXIT: 24/04/2024 11:18 am

VEHICLE: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 46690 kg k Scale In  
TARE 19960 kg Scale Out  
NET 26730 kg

QTY Unit Description  
26.73 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611474

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:56 am  
EXIT: 24/04/2024 11:23 am

VEHICLE #: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 29600 kg Scale In  
TARE 14920 kg Scale Out  
NET 14680 kg

Qty Unit Description  
14.68 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611474

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:56 am  
EXIT: 24/04/2024 11:23 am

VEHICLE: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 29600 kg k Scale In  
TARE 14920 kg Scale Out  
NET 14680 kg

QTY Unit Description  
14.68 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611517

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 12:58 pm  
EXIT: 24/04/2024 1:23 pm

VEHICLE #: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 45180 kg Scale In  
TARE 21100 kg Scale Out  
NET 24080 kg

Qty Unit Description  
24.08 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611517

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 12:58 pm  
EXIT: 24/04/2024 1:23 pm

VEHICLE: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 45180 kg k Scale In  
TARE 21100 kg Scale Out  
NET 24080 kg

QTY Unit Description  
24.08 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611525

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 1:24 pm  
EXIT: 24/04/2024 1:42 pm

VEHICLE #: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 42120 kg Scale In  
TARE 21110 kg Scale Out  
NET 21010 kg

Qty Unit Description  
21.01 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611525

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 1:24 pm  
EXIT: 24/04/2024 1:42 pm

VEHICLE: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 42120 kg k Scale In  
TARE 21110 kg Scale Out  
NET 21010 kg

QTY Unit Description  
21.01 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:





TICKET#: 611532

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 1:38 pm  
EXIT: 24/04/2024 2:03 pm

VEHICLE #: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 39890 kg Scale In  
TARE 19930 kg Scale Out  
NET 19960 kg

Qty Unit Description  
19.96 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611532

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 1:38 pm  
EXIT: 24/04/2024 2:03 pm

VEHICLE: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 39890 kg k Scale In  
TARE 19930 kg Scale Out  
NET 19960 kg

QTY Unit Description  
19.96 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611539

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 2:11 pm  
EXIT: 24/04/2024 2:23 pm

VEHICLE #: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 34100 kg Scale In  
TARE 15070 kg Scale Out  
NET 19030 kg

Qty Unit Description  
19.03 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611539

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 2:11 pm  
EXIT: 24/04/2024 2:23 pm

VEHICLE: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 34100 kg k Scale In  
TARE 15070 kg Scale Out  
NET 19030 kg

QTY Unit Description  
19.03 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611550

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 2:30 pm  
EXIT: 24/04/2024 2:57 pm

VEHICLE #: PA34810  
CONTAINER:  
LICENSE: PA34810  
REFERENCE:

GROSS 54760 kg Scale In  
TARE 19980 kg Scale Out  
NET 34780 kg

Qty Unit Description  
34.78 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611550

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 2:30 pm  
EXIT: 24/04/2024 2:57 pm

VEHICLE: PA34810  
CONTAINER:  
LICENSE: PA34810  
REFERENCE:

GROSS 54760 kg k Scale In  
TARE 19980 kg Scale Out  
NET 34780 kg

QTY Unit Description  
34.78 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611587

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 4:12 pm  
EXIT: 24/04/2024 4:32 pm

VEHICLE #: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 38430 kg Scale In  
TARE 19880 kg Scale Out  
NET 18550 kg

Qty Unit Description  
18.55 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611587

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 4:12 pm  
EXIT: 24/04/2024 4:32 pm

VEHICLE: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 38430 kg k Scale In  
TARE 19880 kg Scale Out  
NET 18550 kg

QTY Unit Description  
18.55 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611589

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 4:33 pm  
EXIT: 24/04/2024 4:45 pm

VEHICLE #: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 27060 kg Scale In  
TARE 15040 kg Scale Out  
NET 12020 kg

Qty Unit Description  
12.02 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611589

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 4:33 pm  
EXIT: 24/04/2024 4:45 pm

VEHICLE: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 27060 kg k Scale In  
TARE 15040 kg Scale Out  
NET 12020 kg

QTY Unit Description  
12.02 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611579

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 3:38 pm  
EXIT: 24/04/2024 4:04 pm

VEHICLE #: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 44610 kg Scale In  
TARE 20840 kg Scale Out  
NET 23770 kg

Qty Unit Description  
23.77 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611579

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 3:38 pm  
EXIT: 24/04/2024 4:04 pm

VEHICLE: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 44610 kg k Scale In  
TARE 20840 kg Scale Out  
NET 23770 kg

QTY Unit Description  
23.77 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611605

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 7:51 am  
EXIT: 25/04/2024 8:10 am

VEHICLE #: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE: MM24

GROSS 42460 kg Scale In  
TARE 21250 kg Scale Out  
NET 21210 kg

Qty Unit Description  
21.21 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611605

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 7:51 am  
EXIT: 25/04/2024 8:10 am

VEHICLE: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE: MM24

GROSS 42460 kg k Scale In  
TARE 21250 kg Scale Out  
NET 21210 kg

QTY Unit Description  
21.21 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611645

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 9:39 am  
EXIT: 25/04/2024 9:59 am

VEHICLE #: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 48490 kg Scale In  
TARE 20840 kg Scale Out  
NET 27650 kg

Qty Unit Description  
27.65 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611645

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 9:39 am  
EXIT: 25/04/2024 9:59 am

VEHICLE: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 48490 kg k Scale In  
TARE 20840 kg Scale Out  
NET 27650 kg

QTY Unit Description  
27.65 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:





TICKET#: 611655

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 10:31 am  
EXIT: 25/04/2024 10:43 am

VEHICLE #: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 30930 kg Scale In  
TARE 15240 kg Scale Out  
NET 15690 kg

Qty Unit Description  
15.69 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611655

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 10:31 am  
EXIT: 25/04/2024 10:43 am

VEHICLE: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 30930 kg k Scale In  
TARE 15240 kg Scale Out  
NET 15690 kg

QTY Unit Description  
15.69 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611662

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 10:45 am  
EXIT: 25/04/2024 11:07 am

VEHICLE #: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 47590 kg Scale In  
TARE 21180 kg Scale Out  
NET 26410 kg

Qty Unit Description  
26.41 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611662

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 10:45 am  
EXIT: 25/04/2024 11:07 am

VEHICLE: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 47590 kg k Scale In  
TARE 21180 kg Scale Out  
NET 26410 kg

QTY Unit Description  
26.41 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611669

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 11:08 am  
EXIT: 25/04/2024 11:29 am

VEHICLE #: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 47340 kg Scale In  
TARE 19940 kg Scale Out  
NET 27400 kg

Qty Unit Description  
27.40 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611669

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 11:08 am  
EXIT: 25/04/2024 11:29 am

VEHICLE: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 47340 kg k Scale In  
TARE 19940 kg Scale Out  
NET 27400 kg

QTY Unit Description  
27.40 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611930

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 3:09 pm  
EXIT: 25/04/2024 3:09 pm

VEHICLE #: PA34310  
CONTAINER:  
LICENSE: PA34310  
REFERENCE: GFL MANUAL #29834

GROSS 66370 kg Manual  
TARE 19970 kg Manual  
NET 46400 kg

Qty Unit Description  
46.40 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611930

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 3:09 pm  
EXIT: 25/04/2024 3:09 pm

VEHICLE: PA34310  
CONTAINER:  
LICENSE: PA34310  
REFERENCE: GFL MANUAL #29834

GROSS 66370 kg k Manual  
TARE 19970 kg Manual  
NET 46400 kg

QTY Unit Description  
46.40 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:

**ATTACHMENT D**  
**TEST PIT LOGS**

**TP101**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 - 4.0	<b>SILTY CLAY TO CLAYEY SILT</b> Trace sand Brown, moist	None	<5 ppm	TP101-1	1.0	
		None	<5 ppm	TP102-2	2.0	
3.0	Grey	None	<5 ppm	TP101-3	3.0	
		None	<5 ppm	TP101-4	4.0	BTEX, PHCs
4.0	END OF TEST PIT					

**TP102**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 - 4.0	<b>SILTY CLAY TO CLAYEY SILT</b> Grey, moist	Slight	220 ppm	TP102-1	1.0	
		Moderate	510 ppm	TP102-2	2.0	
		Moderate	310 ppm	TP102-3	3.0	
4.0	Brown	Slight	410 ppm	TP102-4	4.0	
		None	<5 ppm	TP102-5	5.0	
		None	<5 ppm	TP102-6	5.5	
5.5	END OF TEST PIT					

**TP103**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	None	<5 ppm	TP103-1	0.5	
0.5 - 4.0	<b>SILTY CLAY TO CLAYEY SILT</b> Grey, moist	None	<5 ppm	TP103-2	1.0	
		None	<5 ppm	TP103-3	2.0	
		Slight	<5 ppm	TP103-4	3.0	BTEX, PHCs
		None	<5 ppm	TP103-5	3.5	
		None	<5 ppm	TP103-6	4.0	
4.0	END OF TEST PIT					

**TP104**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 – 3.0	<b>SILTY CLAY TO CLAYEY SILT</b> Trace sand Grey, moist	None	<5 ppm	TP104-1	1.0	
		None	75 ppm	TP104-2	2.0	BTEX, PHCs
3.0	Wet	None	50 ppm	TP104-3	3.0	
		None	<5 ppm	TP104-4	4.0	
4.0	END OF TEST PIT					

**TP105**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 – 3.0	<b>SILTY CLAY TO CLAYEY SILT</b> Brown, moist	None	<5 ppm	TP105-1	1.0	
		None	<5 ppm	TP105-2	2.0	
2.5	Grey, trace sand	None	<5 ppm	TP105-3	2.5	
		None	<5 ppm	TP105-4	3.0	BTEX, PHCs
3.0	END OF TEST PIT					

**TP106**

Date: 15-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 – 5.0	<b>SILTY CLAY TO CLAYEY SILT</b> Trace sand Brown, moist	None	<5 ppm	TP106-1	1.0	
		None	<5 ppm	TP106-2	2.0	
		None	<5 ppm	TP106-3	3.0	
		None	<5 ppm	TP106-4	4.0	
		None	<5 ppm	TP106-5	5.0	
5.0	END OF TEST PIT					

**TP107**

Date: 15-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 - 5.0	<b>SILTY CLAY TO CLAYEY SILT</b> Grey, moist	None	<5 ppm	TP107-1	1.0	
		None	<5 ppm	TP107-2	2.0	
		None	25 ppm	TP107-3	3.0	
		None	<5 ppm	TP107-4	4.0	
		None	<5 ppm	TP107-5	5.0	
5.0	END OF TEST PIT					

**TP108**

Date: 15-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 - 5.0	<b>SILTY CLAY TO CLAYEY SILT</b> Trace sand Brown, moist	None	<5 ppm	TP108-1	1.0	
		None	15 ppm	TP108-2	2.0	BTEX, PHCs
		None	<5 ppm	TP108-3	3.0	
		None	<5 ppm	TP108-4	4.0	
		None	<5 ppm	TP108-5	5.0	
5.0	END OF TEST PIT					



**ATTACHMENT E**  
**LABORATORY CERTIFICATES OF ANALYSIS**

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142310  
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist  
DATE REPORTED: Apr 24, 2024  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142310

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-24

SAMPLE DESCRIPTION: CS129  
 SAMPLE TYPE: Soil  
 DATE SAMPLED: 2024-04-23  
 10:00  
 5814724

Parameter	Unit	G / S	RDL	5814724
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	250	10	<10
F3 (C16 to C34)	µg/g	2500	50	<50
F4 (C34 to C50)	µg/g	6600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA
Moisture Content	%		0.1	28.9
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		81
Terphenyl	%	60-140		91

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 24Z142310

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-24

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

5814724 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z142310  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 24, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5809334		<0.02	<0.02	NA	< 0.02	100%	60%	140%	112%	60%	140%	90%	60%	140%
Toluene	5809334		<0.05	<0.05	NA	< 0.05	80%	60%	140%	99%	60%	140%	88%	60%	140%
Ethylbenzene	5809334		<0.05	<0.05	NA	< 0.05	88%	60%	140%	109%	60%	140%	88%	60%	140%
m & p-Xylene	5809334		<0.05	<0.05	NA	< 0.05	106%	60%	140%	98%	60%	140%	93%	60%	140%
o-Xylene	5809334		<0.05	<0.05	NA	< 0.05	108%	60%	140%	107%	60%	140%	96%	60%	140%
F1 (C6 to C10)	5809334		<5	<5	NA	< 5	103%	60%	140%	106%	60%	140%	93%	60%	140%
F2 (C10 to C16)	5807322		< 10	< 10	NA	< 10	106%	60%	140%	116%	60%	140%	121%	60%	140%
F3 (C16 to C34)	5807322		< 50	< 50	NA	< 50	104%	60%	140%	124%	60%	140%	115%	60%	140%
F4 (C34 to C50)	5807322		< 50	< 50	NA	< 50	66%	60%	140%	82%	60%	140%	106%	60%	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: \_\_\_\_\_





## Time Markers

AGAT WORK ORDER: 24Z142310

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5814724	CS129	Soil	23-APR-2024	23-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	24-APR-2024	24-APR-2024	VB
Toluene	24-APR-2024	24-APR-2024	VB
Ethylbenzene	24-APR-2024	24-APR-2024	VB
m & p-Xylene	24-APR-2024	24-APR-2024	VB
o-Xylene	24-APR-2024	24-APR-2024	VB
Xylenes (Total)	24-APR-2024	24-APR-2024	SYS
F1 (C6 to C10)	24-APR-2024	24-APR-2024	VB
F1 (C6 to C10) minus BTEX	24-APR-2024	24-APR-2024	SYS
Toluene-d8	24-APR-2024	24-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	SS
F3 (C16 to C34)	24-APR-2024	24-APR-2024	SS
F4 (C34 to C50)	24-APR-2024	24-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	24-APR-2024	24-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	SS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142310

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Have feedback?  
Scan here for a quick survey!



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

Laboratory Use Only **242142312**

Work Order #: **242142310**

Cooler Quantity: **one - 100se100**  
Arrival Temperatures: **4.0 | 3.9 | 3.8**  
Depot Temperatures: **4.0 | 4.1 | 4.2**  
Custody Seal Intact:  Yes  No  N/A  
Notes: **bagged up**

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to: \_\_\_\_\_  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
*Please note: If quotation number is not provided, client will be billed full price for analysis.*

**Invoice Information:** Bill To Same: Yes  No   
Company: Terrapex  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm  
Table 2 Indicate One  Ind/Com  Res/Park  Agriculture  
Soil Texture (Check One)  Coarse  Fine  Regulation 558  CCME  
Region \_\_\_\_\_  
Prov. Water Quality Objectives (PWQO)  Other \_\_\_\_\_  
Indicate One

### Is this submission for a Record of Site Condition (RSC)?

Yes  No

### Report Guideline on Certificate of Analysis

Yes  No

### Legal Sample

### Sample Matrix Legend

**GW** Ground Water **SD** Sediment  
**O** Oil **SW** Surface Water  
**P** Paint **R** Rock/Shale  
**S** Soil

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	0. Reg 153		0. Reg 406		0. Reg 558		Potentially Hazardous or High Concentration (Y/N)
							Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	BTEX, F1-F4 PHCS	VOC	PAHs	PCBs, Aroclors <input type="checkbox"/>	
1. <b>CS132</b>	<b>Apr 23/24</b>	<b>10:30 AM</b>	<b>2</b>	<b>S</b>	<b>Reg TAT</b>	<b>2220</b>							
2. <b>CS129</b>	<b>Apr 23/24</b>	<b>10:00 AM</b>	<b>2</b>	<b>S</b>	<b>1-Day TAT</b>	<b>2220</b>							
3. <b>methanol Blank</b>	<b>Apr 23/24</b>	<b>13:00 PM</b>	<b>2</b>	<b>-</b>	<b>Reg TAT</b>	<b>2220</b>							
4. <b>CS144</b>	<b>Apr 23/24</b>	<b>11:00 AM</b>	<b>2</b>	<b>S</b>	<b>Reg TAT</b>	<b>2220</b>							
5.													
6.													
7.													
8.													
9.													
10.													
11.													

Samples Relinquished By (Print Name and Sign): <u>A. Harris</u>	Date: <u>23/4/24</u> Time: <u>2:20</u>	Samples Received By (Print Name and Sign): <u>C. Griffiths</u>	Date: <u>Apr 23/24</u> Time: <u>14h40</u>
Samples Relinquished By (Print Name and Sign): <u>G. to P. Boonstra</u>	Date: <u>04/23/24</u> Time: <u>15h00</u>	Samples Received By (Print Name and Sign): <u>P. Boonstra</u>	Date: <u>Apr 24</u> Time: <u>8:50 AM</u>



CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142312  
TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager  
DATE REPORTED: Apr 30, 2024  
PAGES (INCLUDING COVER): 9  
VERSION\*: 1

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

\*Notes

Disclaimer:

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- 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.
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- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-30

Parameter	Unit	SAMPLE DESCRIPTION:		CS132	CS144
		G / S	RDL	5814759	5814765
Benzene	µg/g	0.4	0.02	<0.02	<0.02
Toluene	µg/g	9	0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA
Moisture Content	%		0.1	32.6	21.7
Surrogate	Unit	Acceptable Limits			
Toluene-d8	% Recovery	60-140		96	92
Terphenyl	%	60-140		70	74

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-30

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

5814759-5814765 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*

# Certificate of Analysis

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-30

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-23  
13:00

Parameter	Unit	G / S	RDL	5814764
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5814764 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z142312  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 30, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5816966		<0.02	<0.02	NA	< 0.02	82%	60%	140%	89%	60%	140%	87%	60%	140%
Toluene	5816966		<0.05	<0.05	NA	< 0.05	93%	60%	140%	105%	60%	140%	105%	60%	140%
Ethylbenzene	5816966		<0.05	<0.05	NA	< 0.05	106%	60%	140%	88%	60%	140%	82%	60%	140%
m & p-Xylene	5816966		<0.05	<0.05	NA	< 0.05	98%	60%	140%	89%	60%	140%	84%	60%	140%
o-Xylene	5816966		<0.05	<0.05	NA	< 0.05	103%	60%	140%	88%	60%	140%	84%	60%	140%
F1 (C6 to C10)	5816966		<5	<5	NA	< 5	96%	60%	140%	96%	60%	140%	98%	60%	140%
F2 (C10 to C16)	5822848		< 10	< 10	NA	< 10	111%	60%	140%	87%	60%	140%	91%	60%	140%
F3 (C16 to C34)	5822848		< 50	< 50	NA	< 50	110%	60%	140%	112%	60%	140%	117%	60%	140%
F4 (C34 to C50)	5822848		< 50	< 50	NA	< 50	85%	60%	140%	78%	60%	140%	99%	60%	140%
O. Reg. 153(511) - PHCs F1/BTEX (MeOH)															
Benzene	5816966		<0.02	<0.02	NA	< 0.02	82%	60%	140%	89%	60%	140%	87%	60%	140%
Toluene	5816966		<0.05	<0.05	NA	< 0.05	93%	60%	140%	105%	60%	140%	105%	60%	140%
Ethylbenzene	5816966		<0.05	<0.05	NA	< 0.05	106%	60%	140%	88%	60%	140%	82%	60%	140%
m & p-Xylene	5816966		<0.05	<0.05	NA	< 0.05	98%	60%	140%	89%	60%	140%	84%	60%	140%
o-Xylene	5816966		<0.05	<0.05	NA	< 0.05	103%	60%	140%	88%	60%	140%	84%	60%	140%
F1 (C6 to C10)	5816966		<5	<5	NA	< 5	96%	60%	140%	96%	60%	140%	98%	60%	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: R. Chakraborty



## Time Markers

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5814759	CS132	Soil	23-APR-2024	23-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	29-APR-2024	29-APR-2024	SS
F3 (C16 to C34)	29-APR-2024	29-APR-2024	SS
F4 (C34 to C50)	29-APR-2024	29-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	26-APR-2024	26-APR-2024	PD
Terphenyl	29-APR-2024	29-APR-2024	SS

5814764	Methanol Blank	MeOH	23-APR-2024	23-APR-2024
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O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB

5814765	CS144	Soil	23-APR-2024	23-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB



## Time Markers

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5814765	CS144	Soil	23-APR-2024	23-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	29-APR-2024	29-APR-2024	SS
F3 (C16 to C34)	29-APR-2024	29-APR-2024	SS
F4 (C34 to C50)	29-APR-2024	29-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	26-APR-2024	26-APR-2024	PD
Terphenyl	29-APR-2024	29-APR-2024	SS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID



Have feedback?  
Scan here for a quick survey!



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

Laboratory Use Only **242142312**

Work Order #: **242142310**

Cooler Quantity: one - 100L ice  
Arrival Temperatures: 4.0 13.9 13.8  
Depot Temperatures: 4.0 14.1 14.2  
Custody Seal Intact:  Yes  No  N/A  
Notes: bagged in

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to:  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
Please note: if quotation number is not provided, client will be billed full price for analysis.

**Invoice Information:**  
Company: Terrapex Bill To Same: Yes  No   
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

**Regulatory Requirements:**  
(Please check all applicable boxes)

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm

Table Indicate One  
 Ind/Com  Ind/Com  
 Res/Park  Res/Park  
 Agriculture  Agriculture

Soil Texture (Check One)  
 Coarse  Regulation 558  Other  
 Fine  CCME

Region: \_\_\_\_\_

Indicate One

Is this submission for a Record of Site Condition (RSC)?  Yes  No

Report Guideline on Certificate of Analysis  Yes  No

**Turnaround Time (TAT) Required:**

**Regular TAT**  5 to 7 Business Days See below

**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 CSR

**Legal Sample**

**Sample Matrix Legend**  
GW Ground Water SD Sediment  
O Oil SW Surface Water  
P Paint R Rock/Shale  
S Soil

Field Filtered - Metals, Hg, CrVI, DOC	0, Reg 153	0, Reg 406	0, Reg 558	Potentially Hazardous or High Concentration (Y/N)
Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	Regulation 406 SPLP Rainwater Leach mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> OC	
	BTEX, F1-F4 PHCs	EC, SAR	Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> MnI, <input type="checkbox"/> VOCs <input type="checkbox"/> ABNS <input type="checkbox"/> BQEP <input type="checkbox"/> PCBs	
	VOC	PCBs: Aroclors <input type="checkbox"/>	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	
	PAHs			

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Metals & Inorganics	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors	Regulation 406 Characterization Package	EC, SAR	Regulation 406 SPLP Rainwater Leach	Landfill Disposal Characterization TCLP	Corrosivity: Moisture Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. <u>CS132</u>	<u>Apr 23/24</u>	<u>10:30 AM</u>	<u>2</u>	<u>S</u>	<u>Reg TAT</u>	<u>2</u>		<u>X</u>									
2. <u>CS129</u>	<u>15/1</u>	<u>10:00 AM</u>	<u>2</u>	<u>S</u>	<u>1-Day TAT</u>	<u>2</u>		<u>X</u>									
3. <u>met/ground Blank</u>	<u>15/1</u>	<u>13:00 AM</u>	<u>2</u>	<u>-</u>	<u>Reg TAT</u>	<u>2</u>											
4. <u>CS144</u>	<u>15/1</u>	<u>11:00 AM</u>	<u>2</u>	<u>S</u>	<u>Reg TAT</u>	<u>2</u>		<u>X</u>									
5.		AM PM															
6.		AM PM															
7.		AM PM															
8.		AM PM															
9.		AM PM															
10.		AM PM															
11.		AM PM															

Samples Relinquished By (Print Name and Sign): <u>Ali Havis</u>	Date: <u>23/4/24</u> Time: <u>2:20</u>	Samples Received By (Print Name and Sign): <u>C. Griffiths</u>	Date: <u>Apr 23/24</u> Time: <u>14h40</u>
Samples Relinquished By (Print Name and Sign): <u>Ali Havis</u>	Date: <u>24/23/24</u> Time: <u>1:50</u>	Samples Received By (Print Name and Sign): <u>Ali Havis</u>	Date: <u>Nov 24</u> Time: <u>8:50</u>

Page 1 of 1

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142833  
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist  
DATE REPORTED: Apr 25, 2024  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142833

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-04-25

SAMPLE DESCRIPTION: CS156  
 SAMPLE TYPE: Soil  
 DATE SAMPLED: 2024-04-23  
 14:00  
 5817862

Parameter	Unit	G / S	RDL	5817862
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	250	10	<10
F3 (C16 to C34)	µg/g	2500	50	<50
F4 (C34 to C50)	µg/g	6600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA
Moisture Content	%		0.1	15.8
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		78
Terphenyl	%	60-140		96

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 24Z142833

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-04-25

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

5817862 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z142833  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: Eric Boonstra

### Trace Organics Analysis

RPT Date: Apr 25, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5812087		<0.02	<0.02	NA	< 0.02	82%	60%	140%	109%	60%	140%	91%	60%	140%
Toluene	5812087		<0.05	<0.05	NA	< 0.05	86%	60%	140%	84%	60%	140%	93%	60%	140%
Ethylbenzene	5812087		<0.05	<0.05	NA	< 0.05	90%	60%	140%	110%	60%	140%	104%	60%	140%
m & p-Xylene	5812087		<0.05	<0.05	NA	< 0.05	95%	60%	140%	99%	60%	140%	92%	60%	140%
o-Xylene	5812087		<0.05	<0.05	NA	< 0.05	94%	60%	140%	104%	60%	140%	93%	60%	140%
F1 (C6 to C10)	5812087		<5	<5	NA	< 5	94%	60%	140%	91%	60%	140%	93%	60%	140%
F2 (C10 to C16)	5800315		< 10	< 10	NA	< 10	118%	60%	140%	103%	60%	140%	119%	60%	140%
F3 (C16 to C34)	5800315		< 50	< 50	NA	< 50	114%	60%	140%	126%	60%	140%	125%	60%	140%
F4 (C34 to C50)	5800315		< 50	< 50	NA	< 50	66%	60%	140%	112%	60%	140%	95%	60%	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: \_\_\_\_\_





## Time Markers

AGAT WORK ORDER: 24Z142833

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5817862	CS156	Soil	23-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	25-APR-2024	25-APR-2024	VB
Toluene	25-APR-2024	25-APR-2024	VB
Ethylbenzene	25-APR-2024	25-APR-2024	VB
m & p-Xylene	25-APR-2024	25-APR-2024	VB
o-Xylene	25-APR-2024	25-APR-2024	VB
Xylenes (Total)	25-APR-2024	25-APR-2024	SYS
F1 (C6 to C10)	25-APR-2024	25-APR-2024	VB
F1 (C6 to C10) minus BTEX	25-APR-2024	25-APR-2024	SYS
Toluene-d8	25-APR-2024	25-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	SS
F3 (C16 to C34)	24-APR-2024	24-APR-2024	SS
F4 (C34 to C50)	24-APR-2024	24-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	24-APR-2024	24-APR-2024	SS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142833

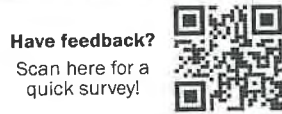
PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID



Have feedback?  
Scan here for a quick survey!

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

Laboratory Use Only 242142834

Work Order #: 242142833

Cooler Quantity: one - bagged ice

Arrival Temperatures: 5.4 16.0 6.1  
2-111-111-5

Custody Seal Intact:  Yes  No  N/A

Notes:

## 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 Limited  
Contact: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8R3  
Phone: 613-745-6471 Fax:  
Reports to be sent to: g.sabourin@terrapex.com  
1. Email:  
2. Email:

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  
 Ind./Com  Sewer Use  
 Res./Park  Sanitary  Storm  
 Agriculture  Regulation 558  Prov. Water Quality Objectives (PWQO)  
 Coarse  CCME  Other  
 Fine  Indicate One

Is this submission for a Record of Site Condition?

Yes  No

Report Guideline on Certificate of Analysis

Yes  No

### Project Information:

Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: Eric Boonstra  
AGAT Quote #: 17116440659 - 2024 SO PO:  
Please note: if quotation number is not provided, client will be billed full price for analysis.

### Invoice Information:

Bill To Same: Yes  No

Company:  
Contact:  
Address:  
Email:

### Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	PCBs: Aroclors	
								Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	Landfill Disposal Characterization TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> Aroclors <input type="checkbox"/> BialP <input type="checkbox"/> PCBs	
								BTEX, F1-F4 PHCs	Regulation 406 SPLP Rainwater Leach SPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs	
								VOC	Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	
								PAHs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	
								PCBs		
1. CS156	Apr 23	14:00 AM	2	Soil	1-Day TAT	-		X		
2. CS1067	Apr 23	14:00 AM	2	Soil	Reg TAT	-		X		
3. CS167	Apr 23	14:00 AM	2	Soil	Reg TAT	-		X		
4. SP101	Apr 23	14:50 AM	2	Soil	Reg TAT	-		X		
5. SP103	Apr 23	13:00 AM	2	Soil	Reg TAT	-		X		
6. SP105	Apr 23	15:15 AM	2	Soil	Reg TAT	-		X		
7. Methanol Blank	-	16:00 AM	1	←	Reg TAT	-				X
8.		AM								
9.		PM								
10.		PM								
11.		PM								

Samples Relinquished By (Print Name and Sign) Greg Sabourin	Date Apr 21/2024	Time	Samples Received By (Print Name and Sign) C. Gushkin	Date 04/24/24	Time 14:15
Samples Relinquished By (Print Name and Sign) C. to Duro	Date 04/24/24	Time 15:00	Samples Received By (Print Name and Sign) Duro	Date Apr 28	Time 8:24:01
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

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



CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142836  
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer  
DATE REPORTED: Apr 25, 2024  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142836

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-04-25

SAMPLE DESCRIPTION: CS191  
 SAMPLE TYPE: Soil  
 DATE SAMPLED: 2024-04-24  
 14:00  
 5817851

Parameter	Unit	G / S	RDL	5817851
Benzene	µg/g		0.02	<0.02
Toluene	µg/g		0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5
F2 (C10 to C16)	µg/g		10	<10
F3 (C16 to C34)	µg/g		50	<50
F4 (C34 to C50)	µg/g		50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA
Moisture Content	%		0.1	31.0
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		84
Terphenyl	%	60-140		72

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 24Z142836

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-04-25

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5817851

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

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street


AGAT WORK ORDER: 24Z142836  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: Eric Boonstra

### Trace Organics Analysis

RPT Date: Apr 25, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5814558		<0.02	<0.02	NA	< 0.02	101%	60%	140%	88%	60%	140%	79%	60%	140%
Toluene	5814558		<0.05	<0.05	NA	< 0.05	116%	60%	140%	106%	60%	140%	106%	60%	140%
Ethylbenzene	5814558		<0.05	<0.05	NA	< 0.05	106%	60%	140%	97%	60%	140%	87%	60%	140%
m & p-Xylene	5814558		<0.05	<0.05	NA	< 0.05	95%	60%	140%	98%	60%	140%	88%	60%	140%
o-Xylene	5814558		<0.05	<0.05	NA	< 0.05	92%	60%	140%	100%	60%	140%	91%	60%	140%
F1 (C6 to C10)	5814558		<5	<5	NA	< 5	95%	60%	140%	98%	60%	140%	90%	60%	140%
F2 (C10 to C16)	5812041		< 10	< 10	NA	< 10	114%	60%	140%	76%	60%	140%	101%	60%	140%
F3 (C16 to C34)	5812041		< 50	< 50	NA	< 50	116%	60%	140%	122%	60%	140%	118%	60%	140%
F4 (C34 to C50)	5812041		< 50	< 50	NA	< 50	71%	60%	140%	92%	60%	140%	77%	60%	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: \_\_\_\_\_





## Time Markers

AGAT WORK ORDER: 24Z142836

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5817851	CS191	Soil	24-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	25-APR-2024	25-APR-2024	VB
Toluene	25-APR-2024	25-APR-2024	VB
Ethylbenzene	25-APR-2024	25-APR-2024	VB
m & p-Xylene	25-APR-2024	25-APR-2024	VB
o-Xylene	25-APR-2024	25-APR-2024	VB
Xylenes (Total)	25-APR-2024	25-APR-2024	SYS
F1 (C6 to C10)	25-APR-2024	25-APR-2024	VB
F1 (C6 to C10) minus BTEX	25-APR-2024	25-APR-2024	SYS
Toluene-d8	25-APR-2024	25-APR-2024	VB
F2 (C10 to C16)	25-APR-2024	25-APR-2024	CA
F3 (C16 to C34)	25-APR-2024	25-APR-2024	CA
F4 (C34 to C50)	25-APR-2024	25-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	25-APR-2024	25-APR-2024	PD
Terphenyl	25-APR-2024	25-APR-2024	CA

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142836

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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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 Limited  
Contact: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8R3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to: g.sabourin@terrapex.com  
1. Email: \_\_\_\_\_  
2. Email: \_\_\_\_\_

### Project Information:

Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: Eric Boonstra  
AGAT Quote #: 17116440659 - 2024 SO PO: \_\_\_\_\_  
Please note: If quotation number is not provided, client will be billed full price for analysis

### Invoice Information:

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: \_\_\_\_\_  
Bill To Same: Yes  No

### Regulatory Requirements:

(Please check all applicable boxes)

- Regulation 153/04  Regulation 406  
 Ind/Com  Res/Park  Agriculture  
 Sewer Use  Sanitary  Storm  
 Regulation 558  CCME  
 Coarse  Fine  
 Other  
 Prov. Water Quality Objectives (PWQO)  
 Region \_\_\_\_\_  
 Indicate One

Is this submission for a Record of Site Condition?

Yes  No

Report Guideline on Certificate of Analysis

Yes  No

### Sample Matrix Legend

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

### Laboratory Use Only

Work Order #: 242142836  
Cooler Quantity: One - loose ice  
Arrival Temperatures: 4.3 | 11.6 | 11.9  
2.1 | 1.1 | 1.5  
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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	O. Reg 153	O. Reg 406	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	Landfill Disposal Characterization TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> AENS <input type="checkbox"/> Bi/Pl <input type="checkbox"/> PCBs	
								Metals - <input type="checkbox"/> CrVI <input type="checkbox"/> Hg <input type="checkbox"/> HWSB	Regulation 406 SPLP Rainwater Leach	
								BTEX, F1-F4 PHCS	SPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs	
								VOC	Regulation 406 Characterization Package	
								PAHs	pH, ICP/MS Metals, BTEX, F1-F4	
								PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	
								PCBs: Aroclors <input type="checkbox"/>		
1. CS191	Apr 24-24	1:30 PM	2	Soil	1-Day TAT	-				
2.		AM								
3.		PM								
4.		AM								
5.		PM								
6.		AM								
7.		PM								
8.		AM								
9.		PM								
10.		AM								
11.		PM								

Samples Relinquished By (Print Name and Sign) SRCE	Date 24/4/24	Time 14:30	Samples Received By (Print Name and Sign) C. Guffin	Date 04/24/24	Time 14:55
Samples Relinquished By (Print Name and Sign) C. TO Puro	Date 04/24/24	Time 15:00	Samples Received By (Print Name and Sign) T. K...	Date 04/25	Time 8:45 AM
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z140682  
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist  
DATE REPORTED: Apr 25, 2024  
PAGES (INCLUDING COVER): 10  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.





# Certificate of Analysis

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-18

DATE REPORTED: 2024-04-25

Parameter	Unit	SAMPLE DESCRIPTION:		CS104	CS1004	CS113	CS125
		G / S	RDL	Soil	Soil	Soil	Soil
DATE SAMPLED:		2024-04-18	2024-04-18	2024-04-18	2024-04-18	2024-04-18	2024-04-18
		09:30	09:30	10:00	10:00	10:20	10:20
		5806207	5806208	5806209	5806210		
Benzene	µg/g	0.4	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	9	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA	NA
Moisture Content	%		0.1	25.8	26.6	9.7	23.6
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	60-140		102	96	112	105
Terphenyl	%	60-140		82	86	83	79

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-18

DATE REPORTED: 2024-04-25

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

5806207-5806210 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

# Certificate of Analysis

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

 5835 COOPERS AVENUE  
 MISSISSAUGA, ONTARIO  
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 TEL (905)712-5100  
 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-18

DATE REPORTED: 2024-04-25

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

 DATE SAMPLED: 2024-04-18  
 10:30

Parameter	Unit	G / S	RDL	5806212
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		107

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5806212

A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z140682  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 25, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5809651		<0.02	<0.02	NA	< 0.02	108%	60%	140%	103%	60%	140%	102%	60%	140%
Toluene	5809651		<0.05	<0.05	NA	< 0.05	103%	60%	140%	109%	60%	140%	106%	60%	140%
Ethylbenzene	5809651		<0.05	<0.05	NA	< 0.05	102%	60%	140%	88%	60%	140%	108%	60%	140%
m & p-Xylene	5809651		<0.05	<0.05	NA	< 0.05	110%	60%	140%	105%	60%	140%	109%	60%	140%
o-Xylene	5809651		<0.05	<0.05	NA	< 0.05	98%	60%	140%	105%	60%	140%	102%	60%	140%
F1 (C6 to C10)	5809651		<5	<5	NA	< 5	95%	60%	140%	107%	60%	140%	89%	60%	140%
F2 (C10 to C16)	5809304		<10	<10	NA	< 10	98%	60%	140%	104%	60%	140%	99%	60%	140%
F3 (C16 to C34)	5809304		77	95	NA	< 50	103%	60%	140%	108%	60%	140%	111%	60%	140%
F4 (C34 to C50)	5809304		55	74	NA	< 50	93%	60%	140%	100%	60%	140%	102%	60%	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: \_\_\_\_\_





## Time Markers

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

5835 COOPERS AVENUE  
 MISSISSAUGA, ONTARIO  
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 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5806207	CS104	Soil	18-APR-2024	18-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	CA
F3 (C16 to C34)	24-APR-2024	24-APR-2024	CA
F4 (C34 to C50)	24-APR-2024	24-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	23-APR-2024	23-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	CA

5806208	CS1004	Soil	18-APR-2024	18-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	CA
F3 (C16 to C34)	24-APR-2024	24-APR-2024	CA
F4 (C34 to C50)	24-APR-2024	24-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	23-APR-2024	23-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	CA

5806209	CS113	Soil	18-APR-2024	18-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5806209	CS113	Soil	18-APR-2024	18-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	CA
F3 (C16 to C34)	24-APR-2024	24-APR-2024	CA
F4 (C34 to C50)	24-APR-2024	24-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	23-APR-2024	23-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	CA

5806210	CS125	Soil	18-APR-2024	18-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	CA
F3 (C16 to C34)	24-APR-2024	24-APR-2024	CA
F4 (C34 to C50)	24-APR-2024	24-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	23-APR-2024	23-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	CA

5806212	Methanol Blank	MeOH	18-APR-2024	18-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5806212	Methanol Blank	MeOH	18-APR-2024	18-APR-2024

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID



Have feedback?  
Scan here for a quick survey!



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

**Laboratory Use Only**

Work Order #: 247240682

Cooler Quantity: one - loose ice

Arrival Temperatures: 3.1 | 3.0 | 2.4

Depot Temperatures: 3.3 | 3.2 | 3.0

Custody Seal Intact:  Yes  No  N/A

Notes: loose ice

## 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: Greg Sabourin

Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3

Phone: 613-745-6471 Fax: \_\_\_\_\_

Reports to be sent to:  
1. Email: g.sabourin@terrapex.com

2. Email: \_\_\_\_\_

**Project Information:**

Project: CO884.03

Site Location: 5650 Manotick Main Street

Sampled By: E. Boonstra

AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_

Please note: if quotation number is not provided, client will be billed full price for analysis.

**Invoice Information:**

Company: Terrapex

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Email: accounts.payable@terrapex.com

Bill To Same: Yes  No

**Regulatory Requirements:**  
(Please check all applicable boxes)

Regulation 153/04  Regulation 406

Sewer Use  
 Sanitary  Storm

Table - Indicate One  
 Ind/Com  
 Res/Park  
 Agriculture

Table - Indicate One  
 Ind/Com  
 Res/Park  
 Agriculture

Soil Texture (Check One)  
 Coarse  
 Fine

Regulation 558  
 CCME

Region: \_\_\_\_\_

Prov. Water Quality Objectives (PWQO)  
 Other

Indicate One

Is this submission for a Record of Site Condition (RSC)?  
 Yes  No

Report Guideline on Certificate of Analysis  
 Yes  No

**Legal Sample**

**Sample Matrix Legend**

GW Ground Water SD Sediment  
O Oil SW Surface Water  
P Paint R Rock/Shale  
S Soil

**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 CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	0. Reg 558	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	Regulation 406 Characterization Package	Landfill Disposal Characterization TCLP	
								Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	pH, Metals, BTEX, F1-F4	TOLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> PCBs	
								BTEX, F1-F4, PHCs	EC, SAR	Regulation 406 SPLP Rainwater Leach	
								VOC	Regulation 406 SP/PP Rainwater Leach	TOC	
								PAHs	mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> PCBs	Moisture	
								PCBs: Aroclors <input type="checkbox"/>	Regulation 406 SP/PP Rainwater Leach	Moisture <input type="checkbox"/> Sulphide	
1. CS104	Apr 18/24	9:30 AM	2	S		2					
2. CS1004	↓	9:30 AM	2	S		2					
3. CS113	↓	10:00 AM	2	S		2					
4. CS125	↓	10:20 AM	2	S		2					
5. methanol Blank	↓	10:30 AM	1	-		2					
6.		AM									
7.		PM									
8.		AM									
9.		PM									
10.		AM									
11.		PM									

Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>Apr 18/24</u>	Time: <u>14:30</u>	Samples Received By (Print Name and Sign): <u>C. Gauthier</u>	Date: <u>Apr 18/24</u>	Time: <u>14:55</u>
Samples Relinquished By (Print Name and Sign): <u>C. Gauthier</u>	Date: <u>Apr 18/24</u>	Time: <u>15:00</u>	Samples Received By (Print Name and Sign): <u>T. Hank</u>	Date: <u>Apr 19</u>	Time: <u>9:10 AM</u>

Page 1 of 1

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142834  
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer  
DATE REPORTED: May 01, 2024  
PAGES (INCLUDING COVER): 11  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

# Certificate of Analysis

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-05-01

Parameter	Unit	SAMPLE DESCRIPTION:						
		G / S	RDL	CS1067	CS167	SP101	SP103	SP105
				Soil	Soil	Soil	Soil	Soil
				2024-04-23	2024-04-23	2024-04-23	2024-04-23	2024-04-23
				14:00	14:00	14:50	15:00	15:15
				5818497	5818498	5818499	5818500	5818501
Benzene	µg/g	0.4	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	9	0.05	0.28	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	8.71	1.14	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	26.2	3.60	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	1.43	0.20	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	27.6	3.80	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	641	248	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	604	243	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	60	47	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA	NA	NA
Moisture Content	%		0.1	23.4	20.8	18.6	18.1	19.0
Surrogate	Unit	Acceptable Limits						
Toluene-d8	% Recovery	60-140	117	115	122	116	107	
Terphenyl	%	60-140	87	93	77	80	78	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

5835 COOPERS AVENUE  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1Y2  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-05-01

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

5818497-5818501 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

# Certificate of Analysis

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

5835 COOPERS AVENUE  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1Y2  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-05-01

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-23  
16:00

Parameter	Unit	G / S	RDL	5818503
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		104

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5818503 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





**Exceedance Summary**

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

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: Greg Sabourin

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
5818497	CS1067	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	Ethylbenzene	µg/g	1.6	8.71
5818497	CS1067	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F1 (C6 to C10)	µg/g	65	641
5818497	CS1067	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F1 (C6 to C10) minus BTEX	µg/g	65	604
5818498	CS167	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F1 (C6 to C10)	µg/g	65	248
5818498	CS167	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F1 (C6 to C10) minus BTEX	µg/g	65	243

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z142834  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: Eric Boonstra

### Trace Organics Analysis

RPT Date: May 01, 2024			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) - PHCs F1 - F4 (Soil)

Benzene	5818497	5818497	<0.02	<0.02	NA	< 0.02	90%	60%	140%	95%	60%	140%	71%	60%	140%
Toluene	5818497	5818497	0.28	0.34	19.4%	< 0.05	100%	60%	140%	109%	60%	140%	111%	60%	140%
Ethylbenzene	5818497	5818497	8.71	9.72	11.0%	< 0.05	88%	60%	140%	84%	60%	140%	78%	60%	140%
m & p-Xylene	5818497	5818497	26.2	28.9	9.8%	< 0.05	89%	60%	140%	85%	60%	140%	96%	60%	140%
o-Xylene	5818497	5818497	1.43	1.59	10.6%	< 0.05	90%	60%	140%	87%	60%	140%	99%	60%	140%
F1 (C6 to C10)	5818497	5818497	641	701	8.9%	< 5	100%	60%	140%	92%	60%	140%	89%	60%	140%
F2 (C10 to C16)	5823469		<10	<10	NA	< 10	110%	60%	140%	96%	60%	140%	103%	60%	140%
F3 (C16 to C34)	5823469		<50	<50	NA	< 50	114%	60%	140%	110%	60%	140%	118%	60%	140%
F4 (C34 to C50)	5823469		<50	<50	NA	< 50	91%	60%	140%	96%	60%	140%	92%	60%	140%

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

Benzene	5818498	5818498	<0.02	<0.02	NA	< 0.02	90%	60%	140%	95%	60%	140%	71%	60%	140%
Toluene	5818498	5818498	<0.05	<0.05	NA	< 0.05	100%	60%	140%	109%	60%	140%	111%	60%	140%
Ethylbenzene	5818498	5818498	1.14	1.06	7.3%	< 0.05	88%	60%	140%	84%	60%	140%	78%	60%	140%
m & p-Xylene	5818498	5818498	3.60	3.43	4.8%	< 0.05	89%	60%	140%	85%	60%	140%	96%	60%	140%
o-Xylene	5818498	5818498	0.20	0.18	NA	< 0.05	90%	60%	140%	87%	60%	140%	99%	60%	140%
F1 (C6 to C10)	5818498	5818498	248	297	18.0%	< 5	100%	60%	140%	92%	60%	140%	89%	60%	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: \_\_\_\_\_

*Jinkal Patel*



## Time Markers

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5818497	CS1067	Soil	23-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818498	CS167	Soil	23-APR-2024	24-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818499	SP101	Soil	23-APR-2024	24-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

5835 COOPERS AVENUE  
 MISSISSAUGA, ONTARIO  
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 TEL (905)712-5100  
 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5818499	SP101	Soil	23-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818500	SP103	Soil	23-APR-2024	24-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818501	SP105	Soil	23-APR-2024	24-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5818501	SP105	Soil	23-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818503	Methanol Blank	MeOH	23-APR-2024	24-APR-2024
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O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID

Have feedback?  
Scan here for a quick survey!



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

Laboratory Use Only **242142834**

Work Order #: **242142833**

Cooler Quantity: **one - bagged ice**

Arrival Temperatures: **5.4 | 6.0 | 6.1 | 2.1 | 1.1 | 1.5**

Custody Seal Intact:  Yes  No  N/A

Notes:

## 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 Limited  
Contact: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8R3  
Phone: 613-745-6471 Fax:  
Reports to be sent to: g.sabourin@terrapex.com  
1. Email:  
2. Email:

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm  
Table 2 Indicate One  Region  
 Ind./Com  
 Res./Park  Regulation 558  Prov. Water Quality Objectives (PWQO)  
 Agriculture  Other  
Soil Texture (Check One)  CCME  Other  
 Coarse  Fine Indicate One

Is this submission for a Record of Site Condition?

Yes  No

Report Guideline on Certificate of Analysis

Yes  No

### Project Information:

Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: Eric Boonstra  
AGAT Quote #: 17116440659 - 2024 SO PO:  
*Please note: If quotation number is not provided, client will be billed full price for analysis.*

### Invoice Information:

Bill To Same: Yes  No

Company:  
Contact:  
Address:  
Email:

### Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	0. Reg 558	0. Reg 406	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	PCBs	PCBs: Aroclors <input type="checkbox"/>	
								BTEX, F1-F4 PHCs	Regulation 406 SPL P Rainwater Leach	Regulation 406 Characterization Package	Regulation 406 Characterization Package	
								VOC	TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> Biop <input type="checkbox"/> PCBs	Regulation 406 SPL P Rainwater Leach	Regulation 406 Characterization Package	
								PAHs	SPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs	Regulation 406 Characterization Package	Regulation 406 Characterization Package	
								PCBs	PH, ICPMS Metals, BTEX, F1-F4	Regulation 406 Characterization Package	Regulation 406 Characterization Package	
								Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide		Regulation 406 Characterization Package	Regulation 406 Characterization Package	
1. CS156	APR 23	14:00 AM	2	Soil	1-Day TAT	-		X				
2. CS1067	APR 23	14:00 AM	2	Soil	Reg TAT	-		X				
3. CS167	APR 23	14:00 AM	2	Soil	Reg TAT	-		X				
4. SP101	APR 23	14:50 AM	2	Soil	Reg TAT	-		X				
5. SP103	APR 23	15:00 AM	2	Soil	Reg TAT	-		X				
6. SP105	APR 23	15:15 AM	2	Soil	Reg TAT	-		X				
7. Methanol Blank	-	16:00 AM	1	-	Reg TAT	-					X	
8.		AM										
9.		PM										
10.		PM										
11.		AM										

Samples Relinquished By (Print Name and Sign) <i>Greg Sabourin</i>	Date APR 21/2024	Time	Samples Received By (Print Name and Sign) <i>C. C. [Signature]</i>	Date 04/21/24	Time 14:15
Samples Relinquished By (Print Name and Sign) <i>C. C. [Signature]</i>	Date 04/24/24	Time 15:00	Samples Received By (Print Name and Sign) <i>[Signature]</i>	Date Apr 25	Time 8:40
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z143377  
TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager  
DATE REPORTED: May 01, 2024  
PAGES (INCLUDING COVER): 9  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
SAMPLED BY: EB

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

DATE RECEIVED: 2024-04-25

DATE REPORTED: 2024-05-01

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	SP201	SP203	SP205
				Soil	Soil	Soil
				2024-04-25	2024-04-25	2024-04-25
				10:00	10:10	10:20
				5821262	5821265	5821266
Benzene	µg/g	0.4	0.02	<0.02	<0.02	<0.02
Toluene	µg/g	9	0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA
Moisture Content	%		0.1	7.4	8.2	13.6
Surrogate	Unit	Acceptable Limits				
Toluene-d8	% Recovery	60-140		87	89	87
Terphenyl	%	60-140		91	107	100

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: EB

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

DATE RECEIVED: 2024-04-25

DATE REPORTED: 2024-05-01

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

5821262-5821266 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: EB

### O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-25

DATE REPORTED: 2024-05-01

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-25  
 10:30

Parameter	Unit	G / S	RDL	5821267
Benzene	µg/g		0.02	<0.02
Toluene	µg/g		0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5821267 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.  
 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.  
 C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
 The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*



## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: EB

### Trace Organics Analysis

RPT Date: May 01, 2024

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5823708		<0.02	<0.02	NA	< 0.02	103%	60%	140%	94%	60%	140%	72%	60%	140%
Toluene	5823708		<0.05	<0.05	NA	< 0.05	94%	60%	140%	103%	60%	140%	100%	60%	140%
Ethylbenzene	5823708		<0.05	<0.05	NA	< 0.05	81%	60%	140%	109%	60%	140%	74%	60%	140%
m & p-Xylene	5823708		<0.05	<0.05	NA	< 0.05	90%	60%	140%	94%	60%	140%	79%	60%	140%
o-Xylene	5823708		<0.05	<0.05	NA	< 0.05	89%	60%	140%	96%	60%	140%	81%	60%	140%
F1 (C6 to C10)	5823708		<5	<5	NA	< 5	98%	60%	140%	92%	60%	140%	96%	60%	140%
F2 (C10 to C16)	5821262	5821262	< 10	< 10	NA	< 10	126%	60%	140%	83%	60%	140%	114%	60%	140%
F3 (C16 to C34)	5821262	5821262	< 50	< 50	NA	< 50	120%	60%	140%	114%	60%	140%	117%	60%	140%
F4 (C34 to C50)	5821262	5821262	< 50	< 50	NA	< 50	73%	60%	140%	70%	60%	140%	95%	60%	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: R. Chakraborty



## Time Markers

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5821262	SP201	Soil	25-APR-2024	25-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-APR-2024	29-APR-2024	VB
Toluene	29-APR-2024	29-APR-2024	VB
Ethylbenzene	29-APR-2024	29-APR-2024	VB
m & p-Xylene	29-APR-2024	29-APR-2024	VB
o-Xylene	29-APR-2024	29-APR-2024	VB
Xylenes (Total)	29-APR-2024	29-APR-2024	SYS
F1 (C6 to C10)	29-APR-2024	29-APR-2024	VB
F1 (C6 to C10) minus BTEX	29-APR-2024	29-APR-2024	SYS
Toluene-d8	29-APR-2024	29-APR-2024	VB
F2 (C10 to C16)	30-APR-2024	30-APR-2024	SS
F3 (C16 to C34)	30-APR-2024	30-APR-2024	SS
F4 (C34 to C50)	30-APR-2024	30-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	30-APR-2024	30-APR-2024	SS

5821265	SP203	Soil	25-APR-2024	25-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-APR-2024	29-APR-2024	VB
Toluene	29-APR-2024	29-APR-2024	VB
Ethylbenzene	29-APR-2024	29-APR-2024	VB
m & p-Xylene	29-APR-2024	29-APR-2024	VB
o-Xylene	29-APR-2024	29-APR-2024	VB
Xylenes (Total)	29-APR-2024	29-APR-2024	SYS
F1 (C6 to C10)	29-APR-2024	29-APR-2024	VB
F1 (C6 to C10) minus BTEX	29-APR-2024	29-APR-2024	SYS
Toluene-d8	29-APR-2024	29-APR-2024	VB
F2 (C10 to C16)	30-APR-2024	30-APR-2024	SS
F3 (C16 to C34)	30-APR-2024	30-APR-2024	SS
F4 (C34 to C50)	30-APR-2024	30-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	30-APR-2024	30-APR-2024	SS

5821266	SP205	Soil	25-APR-2024	25-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5821266	SP205	Soil	25-APR-2024	25-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-APR-2024	29-APR-2024	VB
Toluene	29-APR-2024	29-APR-2024	VB
Ethylbenzene	29-APR-2024	29-APR-2024	VB
m & p-Xylene	29-APR-2024	29-APR-2024	VB
o-Xylene	29-APR-2024	29-APR-2024	VB
Xylenes (Total)	29-APR-2024	29-APR-2024	SYS
F1 (C6 to C10)	29-APR-2024	29-APR-2024	VB
F1 (C6 to C10) minus BTEX	29-APR-2024	29-APR-2024	SYS
Toluene-d8	29-APR-2024	29-APR-2024	VB
F2 (C10 to C16)	30-APR-2024	30-APR-2024	SS
F3 (C16 to C34)	30-APR-2024	30-APR-2024	SS
F4 (C34 to C50)	30-APR-2024	30-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	30-APR-2024	30-APR-2024	SS

5821267	Methanol Blank	MeOH	25-APR-2024	25-APR-2024
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O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-APR-2024	29-APR-2024	VB
Toluene	29-APR-2024	29-APR-2024	VB
Ethylbenzene	29-APR-2024	29-APR-2024	VB
m & p-Xylene	29-APR-2024	29-APR-2024	VB
o-Xylene	29-APR-2024	29-APR-2024	VB
Xylenes (Total)	29-APR-2024	29-APR-2024	SYS
F1 (C6 to C10)	29-APR-2024	29-APR-2024	VB
F1 (C6 to C10) minus BTEX	29-APR-2024	29-APR-2024	SYS
Toluene-d8	29-APR-2024	29-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z143377  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID

Have feedback?  
Scan here for a quick survey!



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www.agatlabs.com

### Laboratory Use Only

Work Order #: 242143377  
Cooler Quantity: one - bagged in  
Arrival Temperatures: 4.0 C.P. 4.3  
Depot Temperatures: 2.3 2.5 2.8  
Custody Seal Intact:  Yes  No  N/A  
Notes: bagged in

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Rd  
Ottawa, ON K2E 8B3  
Phone: 613-745-6771 Fax: \_\_\_\_\_  
Reports to be sent to:  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  
Table 2 Indicate One  Ind/Com  
 Ind/Com  Res/Park  
 Res/Park  Agriculture  
 Agriculture  
Soil Texture (Check One)  Coarse  Regulation 558  
 Fine  CCME  
 Sewer Use  
 Sanitary  Storm  
Region \_\_\_\_\_  
 Prov. Water Quality Objectives (PWQO)  
 Other  
Indicate One \_\_\_\_\_

### Project Information:

Project: C0884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: ES  
AGAT Quote #: 17116440659-202450 PO: \_\_\_\_\_  
Please note: If quotation number is not provided, client will be billed full price for analysis.

### Is this submission for a Record of Site Condition (RSC)?

Yes  No

### Report Guideline on Certificate of Analysis

Yes  No

### 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):

EOD May 1, 2024

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

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

### Invoice Information:

Bill To Same: Yes  No

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: \_\_\_\_\_

### Legal Sample

### Sample Matrix Legend

**GW** Ground Water **SD** Sediment  
**O** Oil **SW** Surface Water  
**P** Paint **R** Rock/Shale  
**S** Soil

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	Field Filtered - Metals, Hg, CrVI, DOC																	
							Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors <input type="checkbox"/>	Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> OC	Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> M&T <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> B&P <input type="checkbox"/> PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	Potentially Hazardous or High Concentration (Y/N)						
1. <u>SP201</u>	<u>Apr 25/24</u>	<u>10:00 AM</u>	<u>2</u>	<u>S</u>		<u>N</u>																		
2. <u>SP203</u>	<u>↓</u>	<u>10:10 AM</u>	<u>2</u>	<u>S</u>		<u>N</u>																		
3. <u>SP205</u>	<u>↓</u>	<u>10:20 AM</u>	<u>2</u>	<u>S</u>		<u>N</u>																		
4. <u>Methanol Blank</u>	<u>↓</u>	<u>10:30 AM</u>	<u>1</u>	<u>-</u>		<u>N</u>																		
5.		AM																						
6.		PM																						
7.		PM																						
8.		PM																						
9.		PM																						
10.		PM																						
11.		PM																						

Samples Relinquished By (Print Name and Sign): <u>Eric Robinson</u>	Date: <u>Apr 25/24</u>	Time: <u>14:45</u>	Samples Received By (Print Name and Sign): <u>C. G. to Puno</u>	Date: <u>04/25/24</u>	Time: <u>15:00</u>
Samples Relinquished By (Print Name and Sign): <u>C. G. to Puno</u>	Date: <u>04/25/24</u>	Time: <u>15:00</u>	Samples Received By (Print Name and Sign): <u>Terrapex</u>	Date: <u>Apr 26</u>	Time: <u>8:40am</u>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z138772  
TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager  
DATE REPORTED: Apr 16, 2024  
PAGES (INCLUDING COVER): 10  
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 is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



# Certificate of Analysis

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-12

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:		TP101-4	TP103-4	TP104-2	TP105-4
		G / S	RDL	Soil	Soil	Soil	Soil
DATE SAMPLED:		2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12
		08:00	08:00	08:00	08:00	08:00	08:00
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	22	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	22	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA
Moisture Content	%		0.1	29.0	33.3	22.2	27.4
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	60-140		81.2	82.8	78	102
Terphenyl	%	60-140		113	118	95	87

Certified By:

*R. Chakraborty*

# Certificate of Analysis

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-12

DATE REPORTED: 2024-04-16

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

5796142-5796147 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-12

DATE REPORTED: 2024-04-16

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

 DATE SAMPLED: 2024-04-12  
 11:00

Parameter	Unit	G / S	RDL	5796148
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		78.8

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

5796148 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.  
 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.  
 C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
 The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z138772  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 16, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5796146	5796146	<0.02	<0.02	NA	< 0.02	71%	60%	140%	77%	60%	140%	74%	60%	140%
Toluene	5796146	5796146	<0.05	<0.05	NA	< 0.05	74%	60%	140%	91%	60%	140%	80%	60%	140%
Ethylbenzene	5796146	5796146	<0.05	<0.05	NA	< 0.05	96%	60%	140%	73%	60%	140%	93%	60%	140%
m & p-Xylene	5796146	5796146	<0.05	<0.05	NA	< 0.05	93%	60%	140%	91%	60%	140%	92%	60%	140%
o-Xylene	5796146	5796146	<0.05	<0.05	NA	< 0.05	96%	60%	140%	105%	60%	140%	99%	60%	140%
F1 (C6 to C10)	5796146	5796146	22	19	NA	< 5	92%	60%	140%	91%	60%	140%	92%	60%	140%
F2 (C10 to C16)	5789274		333	342	2.7%	< 10	115%	60%	140%	95%	60%	140%	115%	60%	140%
F3 (C16 to C34)	5789274		< 50	< 50	NA	< 50	116%	60%	140%	118%	60%	140%	104%	60%	140%
F4 (C34 to C50)	5789274		< 50	< 50	NA	< 50	71%	60%	140%	81%	60%	140%	76%	60%	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: R. Chakraborty



## Time Markers

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5796142	TP101-4	Soil	12-APR-2024	12-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	15-APR-2024	15-APR-2024	SS
F3 (C16 to C34)	15-APR-2024	15-APR-2024	SS
F4 (C34 to C50)	15-APR-2024	15-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	15-APR-2024	15-APR-2024	PD
Terphenyl	15-APR-2024	15-APR-2024	SS

5796145	TP103-4	Soil	12-APR-2024	12-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	15-APR-2024	15-APR-2024	SS
F3 (C16 to C34)	15-APR-2024	15-APR-2024	SS
F4 (C34 to C50)	15-APR-2024	15-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	15-APR-2024	15-APR-2024	PD
Terphenyl	15-APR-2024	15-APR-2024	SS

5796146	TP104-2	Soil	12-APR-2024	12-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5796146	TP104-2	Soil	12-APR-2024	12-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	15-APR-2024	15-APR-2024	SS
F3 (C16 to C34)	15-APR-2024	15-APR-2024	SS
F4 (C34 to C50)	15-APR-2024	15-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	15-APR-2024	15-APR-2024	PD
Terphenyl	15-APR-2024	15-APR-2024	SS

5796147	TP105-4	Soil	12-APR-2024	12-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	15-APR-2024	15-APR-2024	SS
F3 (C16 to C34)	15-APR-2024	15-APR-2024	SS
F4 (C34 to C50)	15-APR-2024	15-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	15-APR-2024	15-APR-2024	PD
Terphenyl	15-APR-2024	15-APR-2024	SS

5796148	Methanol Blank	MeOH	12-APR-2024	12-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5796148	Methanol Blank	MeOH	12-APR-2024	12-APR-2024

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID

Have feedback?  
Scan here for a quick survey!



**RUSH!**

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

### Laboratory Use Only

Work Order #: 247138772

Cooler Quantity: one - loose ice  
Arrival Temperatures: 5.5 5.7 5.6  
Depot Temperatures: 3.6 2.9 3.3  
Custody Seal Intact:  Yes  No  N/A  
Notes: bagged ice

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to: \_\_\_\_\_  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
Please note: If quotation number is not provided, client will be billed full price for analysis.

**Invoice Information:** Bill To Same: Yes  No   
Company: Terrapex  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  
Table 2 Indicate One  
 Ind/Com  Res/Park  Agriculture  
Soil Texture (Check One)  
 Coarse  Fine  
 Regulation 558  CCME  
 Sewer Use  Sanitary  Storm  
 Prov. Water Quality Objectives (PWQO)  
 Other  
Indicate One

### Is this submission for a Record of Site Condition (RSC)?

Yes  No

### Report Guideline on Certificate of Analysis

Yes  No

### Legal Sample

### Sample Matrix Legend

**GW** Ground Water **SD** Sediment  
**O** Oil **SW** Surface Water  
**P** Paint **R** Rock/Shale  
**S** Soil

### 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 CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	0. Reg 558	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	Regulation 406 Characterization Package	Regulation 406 SPLIT Rainwater Leach	
								Metals - CrVI, Hg, HWSB	pH, Metals, BTEX, F1-F4	mSPLP: Metals, VOCs, SVOCs, OC	
								BTEX, F1-F4, PHCS	EC, SAR	Landfill Disposal Characterization TCLP	
								VOC	PCBs: Aroclors	TCLP: MM&VOCs, ABENS, Bleep, PCBs	
								PAHS	Corrosivity: Moisture, Sulphide		
1. TP101-4	Apr 12/24	8:00 AM	2	S		2					
<del>2. TP102-2</del>	<del>Apr 12/24</del>	<del>8:30 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
<del>3. TP102-2</del>	<del>Apr 12/24</del>	<del>8:30 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
<del>4. TP102-5</del>	<del>Apr 12/24</del>	<del>8:45 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
5. TP103-4	Apr 12/24	9:00 AM	2	S		2					
6. TP104-2	Apr 12/24	9:30 AM	2	S		2					
<del>7. TP104-4</del>	<del>Apr 12/24</del>	<del>9:40 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
8. TP105-4	Apr 12/24	10:00 AM	2	S		2					
<del>9. TP105-4</del>	<del>Apr 12/24</del>	<del>10:00 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
10. methanol Blank	Apr 12/24	11:00 AM	1	-		2					X
11.											

Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>Apr 12/24</u>	Time: <u>13:45</u>	Samples Received By (Print Name and Sign): <u>C. Guillet</u>	Date: <u>04/12/24</u>	Time: <u>13:55</u>
Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>04/12/24</u>	Time: <u>13:00</u>	Samples Received By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>4/13/24</u>	Time: <u>11:20 am</u>
Samples Relinquished By (Print Name and Sign): _____	Date: _____	Time: _____	Samples Received By (Print Name and Sign): _____	Date: _____	Time: _____

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z139246  
TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager  
DATE REPORTED: Apr 17, 2024  
PAGES (INCLUDING COVER): 8  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.





## Certificate of Analysis

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-17

SAMPLE DESCRIPTION: TP108-2  
 SAMPLE TYPE: Soil  
 DATE SAMPLED: 2024-04-15  
 10:00  
 5798318

Parameter	Unit	G / S	RDL	5798318
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	150	10	<10
F3 (C16 to C34)	µg/g	1300	50	<50
F4 (C34 to C50)	µg/g	5600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA
Moisture Content	%		0.1	31.2
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		121
Terphenyl	%	60-140		87

Certified By:

*R. Chakraborty*



# Certificate of Analysis

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-17

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

5798318 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

R. Chakraborty

# Certificate of Analysis

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

 5835 COOPERS AVENUE  
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 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-17

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-15

11:00

5798319

Parameter	Unit	G / S	RDL	5798319
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		101

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

5798319 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.  
 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.  
 C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
 The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z139246  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 17, 2024			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) - PHCs F1/BTEX (MeOH)															
Benzene	5798049		<0.02	<0.02	NA	< 0.02	94%	60%	140%	84%	60%	140%	98%	60%	140%
Toluene	5798049		<0.05	<0.05	NA	< 0.05	90%	60%	140%	80%	60%	140%	100%	60%	140%
Ethylbenzene	5798049		<0.05	<0.05	NA	< 0.05	82%	60%	140%	73%	60%	140%	99%	60%	140%
m & p-Xylene	5798049		<0.05	<0.05	NA	< 0.05	91%	60%	140%	90%	60%	140%	99%	60%	140%
o-Xylene	5798049		<0.05	<0.05	NA	< 0.05	93%	60%	140%	81%	60%	140%	102%	60%	140%
F1 (C6 to C10)	5798049		<5	<5	NA	< 5	96%	60%	140%	95%	60%	140%	96%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5798049		<0.02	<0.02	NA	< 0.02	94%	60%	140%	84%	60%	140%	98%	60%	140%
Toluene	5798049		<0.05	<0.05	NA	< 0.05	90%	60%	140%	80%	60%	140%	100%	60%	140%
Ethylbenzene	5798049		<0.05	<0.05	NA	< 0.05	82%	60%	140%	73%	60%	140%	99%	60%	140%
m & p-Xylene	5798049		<0.05	<0.05	NA	< 0.05	91%	60%	140%	90%	60%	140%	99%	60%	140%
o-Xylene	5798049		<0.05	<0.05	NA	< 0.05	93%	60%	140%	81%	60%	140%	102%	60%	140%
F1 (C6 to C10)	5798049		<5	<5	NA	< 5	96%	60%	140%	95%	60%	140%	96%	60%	140%
F2 (C10 to C16)	5793471		< 10	< 10	NA	< 10	120%	60%	140%	98%	60%	140%	83%	60%	140%
F3 (C16 to C34)	5793471		< 50	< 50	NA	< 50	124%	60%	140%	116%	60%	140%	115%	60%	140%
F4 (C34 to C50)	5793471		< 50	< 50	NA	< 50	68%	60%	140%	115%	60%	140%	63%	60%	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: R. Chakraborty



## Time Markers

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798318	TP108-2	Soil	15-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	17-APR-2024	17-APR-2024	SS
F3 (C16 to C34)	17-APR-2024	17-APR-2024	SS
F4 (C34 to C50)	17-APR-2024	17-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	PD
Terphenyl	17-APR-2024	17-APR-2024	SS

5798319	Methanol Blank	MeOH	15-APR-2024	15-APR-2024
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**O. Reg. 153(511) - PHCs F1/BTEX (MeOH)**

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID



**RUSH!**

## 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: Greg Sabourin  
 Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
 Phone: 613-745-6471 Fax: \_\_\_\_\_  
 Reports to be sent to:  
 1. Email: g.sabourin@terrapex.com  
 2. Email: \_\_\_\_\_

**Regulatory Requirements:**  
*(Please check all applicable boxes)*

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm  
 Table 2 *Indicate One* Table *Indicate One*  
 Ind/Com  Ind/Com *Region*  
 Res/Park  Res/Park  
 Agriculture  Agriculture  
 Soil Texture *(Check One)*  Regulation 558  Other  
 Coarse  CCME *Indicate One*  
 Fine

**Project Information:**  
 Project: CO884.03  
 Site Location: 5650 Manotick Main Street  
 Sampled By: E. Boonstra  
 AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
*Please note: if quotation number is not provided, client will be billed full price for analysis*

**Is this submission for a Record of Site Condition (RSC)?**

Yes  No

**Report Guideline on Certificate of Analysis**

Yes  No

**Invoice Information:** Bill To Same: Yes  No   
 Company: Terrapex  
 Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Email: accounts.payable@terrapex.com

**Legal Sample**

**Sample Matrix Legend**

- GW** Ground Water **SD** Sediment
- O** Oil **SW** Surface Water
- P** Paint **R** Rock/Shale
- S** Soil

**Laboratory Use Only**

Work Order #: 247139246  
 Cooler Quantity: one - large ice  
 Arrival Temperatures: 6.6 | 6.9 | 6.8  
 Depot Temperatures: 2-1 | 2-4 | 2-3  
 Custody Seal Intact:  Yes  No  N/A  
 Notes: bagged in

**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 CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	0. Reg 558	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	Regulation 406 Characterization Package	Regulation 406 SPLP Rainwater Leach mSPLP	
1. <u>TP108-2</u>	<u>Apr 15/24</u>	<u>10:00 AM</u>	<u>2</u>	<u>S</u>		<u>N</u>		<input checked="" type="checkbox"/>			
2. <u>methanol Blank</u>	<u>Apr 15/24</u>	<u>11:00 AM</u>	<u>1</u>	<u>S</u>		<u>N</u>					
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											
11.											

Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>Apr 15/24</u> Time: <u>14:00</u>	Samples Received By (Print Name and Sign): <u>Chris...</u>	Date: <u>04/15/24</u> Time: <u>3:58</u>
Samples Relinquished By (Print Name and Sign): <u>Chris...</u>	Date: <u>04/15/24</u> Time: <u>1:50</u>	Samples Received By (Print Name and Sign): <u>J.R.</u>	Date: <u>Apr 16</u> Time: <u>8:25 AM</u>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471

ATTENTION TO: Greg Sabourin

PROJECT: CO884.03

AGAT WORK ORDER: 24Z139245

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Apr 16, 2024

PAGES (INCLUDING COVER): 26

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 is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



# Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:		GS1	GS2	GS3	GS4	GS5	GS6	GS7	GS8
		G / S	RDL	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		2024-04-12 14:00	2024-04-12 14:05	2024-04-12 14:10	2024-04-12 14:15	2024-04-12 14:20	2024-04-12 14:25	2024-04-12 14:30	2024-04-12 14:35		
		5798272	5798274	5798275	5798276	5798277	5798278	5798279	5798280		
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	<1	<1	<1	<1	<1	<1	<1	<1
Barium	µg/g	390	2.0	18.2	17.6	16.3	16.6	15.7	15.9	16.9	16.2
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5	<5	<5	<5	<5	<5
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	6	7	7	7	6	7	7	7
Cobalt	µg/g	22	0.8	3.2	3.4	3.1	3.7	2.9	3.0	3.1	3.1
Copper	µg/g	180	1.0	6.7	7.2	6.7	7.2	8.2	6.7	6.8	6.7
Lead	µg/g	120	1	2	2	2	2	2	2	2	2
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	5	6	5	5	5	5	5	5
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	<0.50	<0.50	<0.50	0.62	<0.50	<0.50	0.54	0.52
Vanadium	µg/g	86	2.0	14.6	17.8	16.3	18.9	15.0	16.0	18.1	20.7
Zinc	µg/g	340	5	11	11	10	11	10	10	10	11

Certified By:



# Certificate of Analysis

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PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	GS9	GS10	GS11
				Soil	Soil	Soil
				2024-04-12	2024-04-12	2024-04-12
				14:40	14:50	14:50
				5798281	5798282	5798283
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	1	1	<1
Barium	µg/g	390	2.0	17.7	17.1	18.2
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	9	9	7
Cobalt	µg/g	22	0.8	3.5	4.1	3.3
Copper	µg/g	180	1.0	7.1	6.9	7.1
Lead	µg/g	120	1	2	2	2
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	6	6	5
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.58	0.66	0.55
Vanadium	µg/g	86	2.0	25.5	23.5	16.5
Zinc	µg/g	340	5	10	11	11

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

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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 MISSISSAUGA, ONTARIO  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

O. Reg. 153(511) - ORPs (Soil)											
DATE RECEIVED: 2024-04-15						DATE REPORTED: 2024-04-16					
		SAMPLE DESCRIPTION:		GS1	GS2	GS3	GS4	GS5	GS6	GS7	GS8
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-04-12 14:00	2024-04-12 14:05	2024-04-12 14:10	2024-04-12 14:15	2024-04-12 14:20	2024-04-12 14:25	2024-04-12 14:30	2024-04-12 14:35
Parameter	Unit	G / S	RDL	5798272	5798274	5798275	5798276	5798277	5798278	5798279	5798280
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
		SAMPLE DESCRIPTION:		GS9	GS10	GS11					
		SAMPLE TYPE:		Soil	Soil	Soil					
		DATE SAMPLED:		2024-04-12 14:40	2024-04-12 14:50	2024-04-12 14:50					
Parameter	Unit	G / S	RDL	5798281	5798282	5798283					
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10					

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

Certified By:



# Certificate of Analysis

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PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:								
		G / S	RDL	GS1	GS2	GS3	GS4	GS5	GS6	GS7
				Soil	Soil	Soil	Soil	Soil	Soil	Soil
				2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12
				14:00	14:05	14:10	14:15	14:20	14:25	14:30
				5798272	5798274	5798275	5798276	5798277	5798278	5798279
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	14.6	13.9	1.8	6.9	6.1	8.7	5.6
Surrogate	Unit	Acceptable Limits								
Toluene-d8	% Recovery	60-140		112	89	105	81	102	98	108
Terphenyl	%	60-140		82	95	91	97	80	78	80

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

 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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:		GS8	GS9	GS10	GS11
		G / S	RDL	Soil	Soil	Soil	Soil
DATE SAMPLED:		2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12
		14:35	14:40	14:50	14:50	14:50	14:50
		5798280	5798281	5798282	5798283	5798282	5798283
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA
Moisture Content	%		0.1	7.8	7.3	32.0	8.1
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	60-140		112	83.2	79.5	69.8
Terphenyl	%	60-140		81	86	74	89

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1Y2  
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

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

5798272-5798283 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z139245  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

Soil Analysis															
RPT Date: Apr 16, 2024			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) - ORPs (Soil)															
Mercury	5796461		<0.10	<0.10	NA	< 0.10	113%	70%	130%	100%	80%	120%	105%	70%	130%

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

O. Reg. 153(511) - Metals (Including Hydrides) (Soil)															
Antimony	5796461		<0.8	<0.8	NA	< 0.8	135%	70%	130%	105%	80%	120%	94%	70%	130%
Arsenic	5796461		3	3	NA	< 1	122%	70%	130%	105%	80%	120%	107%	70%	130%
Barium	5796461		46.0	41.2	11.0%	< 2.0	100%	70%	130%	96%	80%	120%	93%	70%	130%
Beryllium	5796461		<0.5	<0.5	NA	< 0.5	88%	70%	130%	111%	80%	120%	103%	70%	130%
Boron	5796461		6	11	NA	< 5	75%	70%	130%	100%	80%	120%	84%	70%	130%
Cadmium	5796461		<0.5	<0.5	NA	< 0.5	99%	70%	130%	104%	80%	120%	108%	70%	130%
Chromium	5796461		16	17	NA	< 5	112%	70%	130%	117%	80%	120%	113%	70%	130%
Cobalt	5796461		6.0	5.7	5.1%	< 0.8	115%	70%	130%	111%	80%	120%	109%	70%	130%
Copper	5796461		13.1	12.3	6.3%	< 1.0	99%	70%	130%	112%	80%	120%	98%	70%	130%
Lead	5796461		9	11	20.0%	< 1	108%	70%	130%	104%	80%	120%	102%	70%	130%
Molybdenum	5796461		<0.5	<0.5	NA	< 0.5	115%	70%	130%	105%	80%	120%	110%	70%	130%
Nickel	5796461		14	13	7.4%	< 1	113%	70%	130%	108%	80%	120%	100%	70%	130%
Selenium	5796461		<0.8	<0.8	NA	< 0.8	96%	70%	130%	103%	80%	120%	102%	70%	130%
Silver	5796461		<0.5	<0.5	NA	< 0.5	112%	70%	130%	106%	80%	120%	101%	70%	130%
Thallium	5796461		<0.5	<0.5	NA	< 0.5	110%	70%	130%	101%	80%	120%	102%	70%	130%
Uranium	5796461		<0.50	<0.50	NA	< 0.50	120%	70%	130%	102%	80%	120%	112%	70%	130%
Vanadium	5796461		26.1	26.4	1.1%	< 2.0	125%	70%	130%	116%	80%	120%	112%	70%	130%
Zinc	5796461		47	51	8.2%	< 5	108%	70%	130%	113%	80%	120%	110%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z139245  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 16, 2024			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) - PHCs F1 - F4 (Soil)																
Benzene	5798283	5798283	<0.02	<0.02	NA	< 0.02	93%	60%	140%	94%	60%	140%	86%	60%	140%	
Toluene	5798283	5798283	<0.05	<0.05	NA	< 0.05	89%	60%	140%	87%	60%	140%	93%	60%	140%	
Ethylbenzene	5798283	5798283	<0.05	<0.05	NA	< 0.05	102%	60%	140%	98%	60%	140%	99%	60%	140%	
m & p-Xylene	5798283	5798283	<0.05	<0.05	NA	< 0.05	102%	60%	140%	96%	60%	140%	90%	60%	140%	
o-Xylene	5798283	5798283	<0.05	<0.05	NA	< 0.05	102%	60%	140%	98%	60%	140%	93%	60%	140%	
F1 (C6 to C10)	5798283	5798283	<5	<5	NA	< 5	93%	60%	140%	94%	60%	140%	91%	60%	140%	
F2 (C10 to C16)	5787521		< 10	< 10	NA	< 10	98%	60%	140%	108%	60%	140%	115%	60%	140%	
F3 (C16 to C34)	5787521		1050	775	30.1%	< 50	102%	60%	140%	110%	60%	140%	120%	60%	140%	
F4 (C34 to C50)	5787521		349	272	24.8%	< 50	65%	60%	140%	115%	60%	140%	125%	60%	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).

O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
F2 (C10 to C16)	5789165		< 10	< 10	NA	< 10	120%	60%	140%	98%	60%	140%	83%	60%	140%
F3 (C16 to C34)	5789165		< 50	< 50	NA	< 50	124%	60%	140%	116%	60%	140%	115%	60%	140%
F4 (C34 to C50)	5789165		< 50	< 50	NA	< 50	68%	60%	140%	115%	60%	140%	63%	60%	140%

Certified By: \_\_\_\_\_





## QC Exceedance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03

AGAT WORK ORDER: 24Z139245  
 ATTENTION TO: Greg Sabourin

RPT Date: Apr 16, 2024		REFERENCE MATERIAL		METHOD BLANK SPIKE			MATRIX SPIKE			
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper

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

	135%	70%	130%	105%	80%	120%	94%	70%	130%
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Comments: NA Signifies Not Applicable.  
 Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798272	GS1	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798272	GS1	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	16-APR-2024	16-APR-2024	SS

5798274	GS2	Soil	12-APR-2024	15-APR-2024
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O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS

# Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798274	GS2	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798275	GS3	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798275	GS3	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798276	GS4	Soil	12-APR-2024	15-APR-2024
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O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
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## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798276	GS4	Soil	12-APR-2024	15-APR-2024

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798277	GS5	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE

# Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798277	GS5	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798278	GS6	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798278	GS6	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798279	GS7	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE





## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798279	GS7	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798280	GS8	Soil	12-APR-2024	15-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798280	GS8	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798280	GS8	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	16-APR-2024	16-APR-2024	SS

5798281	GS9	Soil	12-APR-2024	15-APR-2024
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O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798281	GS9	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
<b>Gravimetric Heavy Hydrocarbons</b>			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798282	GS10	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798282	GS10	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798283	GS11	Soil	12-APR-2024	15-APR-2024
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O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
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## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798283	GS11	Soil	12-APR-2024	15-APR-2024

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z139245  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID



Have feedback?  
Scan here for a quick survey!



5835 Coopers Avenue  
Mississauga, Ontario L4Z 1Y2  
Ph: 905.712.5100 Fax: 905.712.5122  
web@earth.agatabs.com

### Laboratory Use Only

Work Order #: 242139245

Cooler Quantity: one - loose ice

Arrival Temperatures: 6.6 6.9 6.8

Spot Temperatures: 2.1 2.4 2.3

Custody Seal Intact:  Yes  No  N/A

Notes: bagged in

## 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: Greg Sabourin  
 Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
 Phone: 613-745-6471 Fax: \_\_\_\_\_  
 Reports to be sent to:  
 1. Email: g.sabourin@terrapex.com  
 2. Email: \_\_\_\_\_

**Project Information:**  
 Project: CO884.03  
 Site Location: 5650 Manotick Main Street  
 Sampled By: E. Boonstra  
 AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
*Please note: if quotation number is not provided, client will be billed full price for analysis.*

**Invoice Information:** Bill To Same: Yes  No   
 Company: Terrapex  
 Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Email: accounts.payable@terrapex.com

**Regulatory Requirements:**  
*(Please check all applicable boxes)*

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm

Table 2 Indicate One  
 Ind/Com  Ind/Com  
 Res/Park  Res/Park  
 Agriculture  Agriculture

Soil Texture (Check One)  
 Coarse  Regulation 558  
 Fine  CCME

Region: \_\_\_\_\_  
 Prov. Water Quality Objectives (PWQO)  
 Other

Indicate One

Is this submission for a Record of Site Condition (RSC)?  Yes  No

Report Guideline on Certificate of Analysis  Yes  No

Legal Sample

**Sample Matrix Legend**

GW Ground Water SD Sediment  
 O Oil SW Surface Water  
 P Paint R Rock/Shale  
 S Soil

**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 CSR

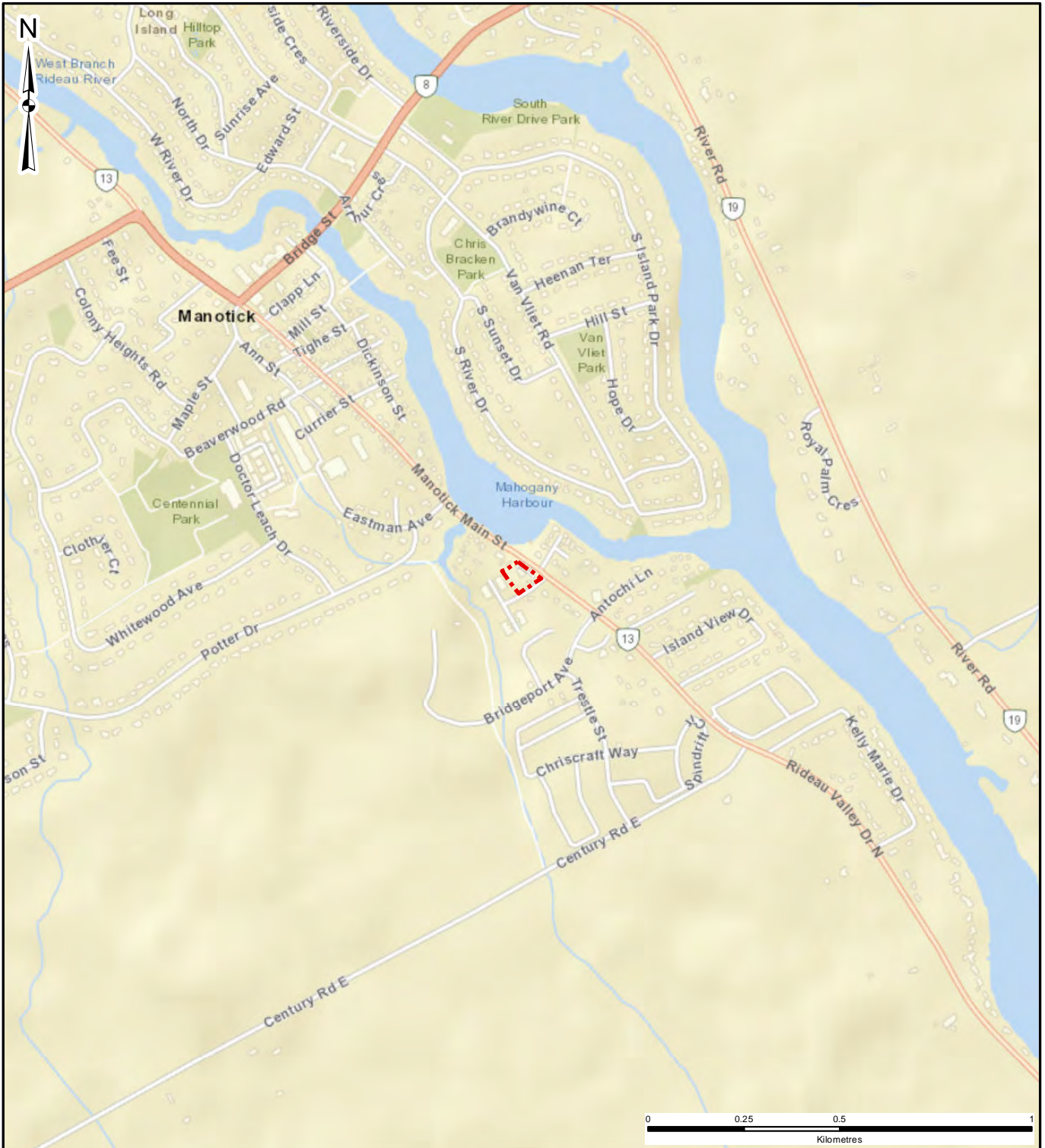
Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	0. Reg 153		0. Reg 406		0. Reg 558		Potentially Hazardous or High Concentration (Y/N)
							Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4 EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> OC	Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> M&M <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> BbP <input type="checkbox"/> PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	
1. <u>GS1</u>	<u>Apr 15/24</u>	<u>14:00</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
2. <u>GS2</u>		<u>14:05</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
3. <u>GS3</u>		<u>14:10</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
4. <u>GS4</u>		<u>14:15</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
5. <u>GS5</u>		<u>14:20</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
6. <u>GS6</u>		<u>14:25</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
7. <u>GS7</u>		<u>14:30</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
8. <u>GS8</u>		<u>14:35</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
9. <u>GS9</u>		<u>14:40</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
10. <u>GS10</u>		<u>14:50</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
11. <u>GS11</u>		<u>14:50</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					

Samples Relinquished By (Print Name and Sign): Eric Boonstra Date: Apr 15/24 Time: 14:00 Samples Received By (Print Name and Sign): C. C. ... Date: 04/15/24 Time: 13h58

Samples Relinquished By (Print Name and Sign): Chito ... Date: 04/15/24 Time: 15h00 Samples Received By (Print Name and Sign): TAT Date: Apr 16 Time: 8:25 AM

Page 1 of 1


## FIGURES



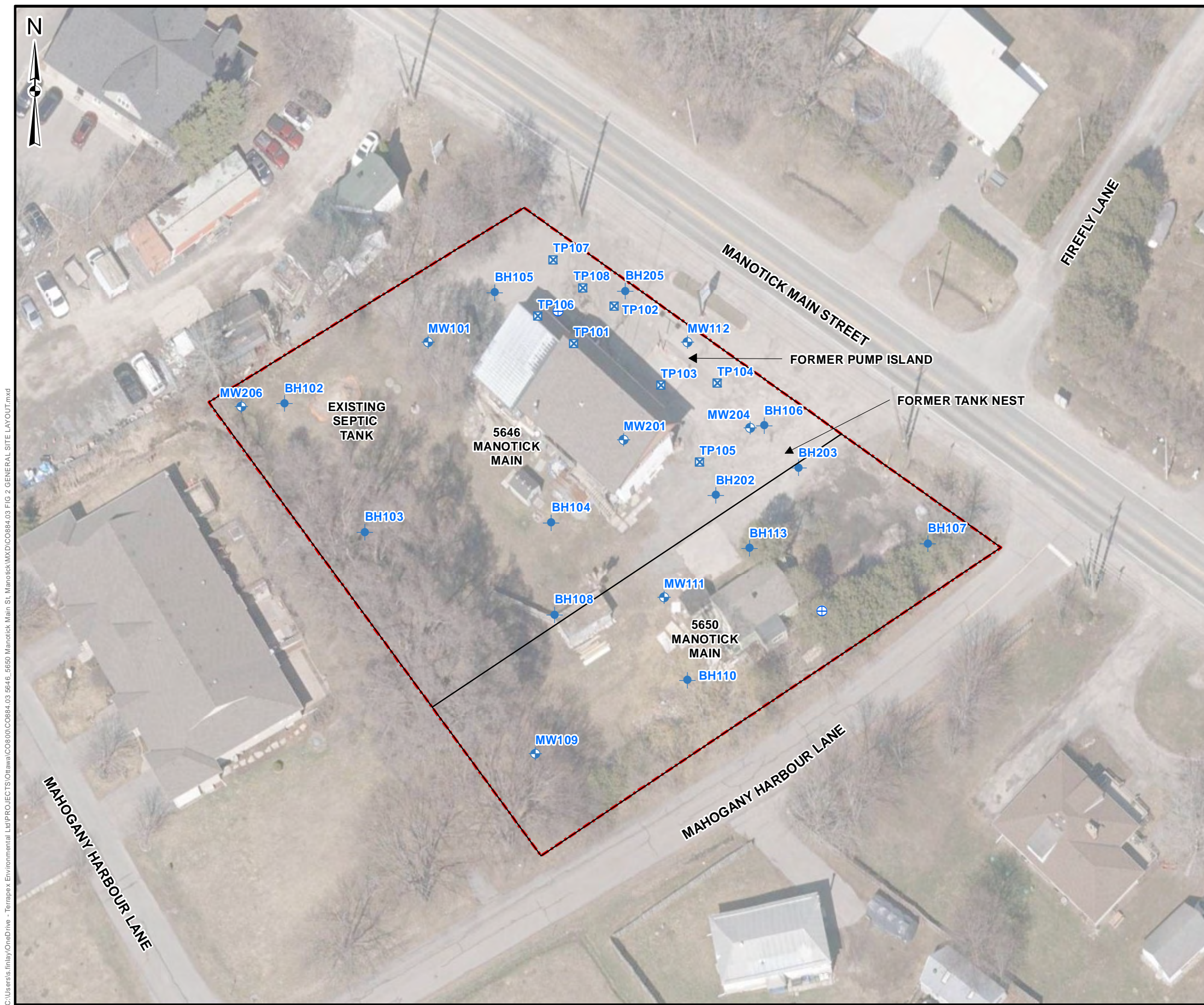
S:\Inlay\_C:\Users\rs.f\myOneDrive - TerraPex Environmental Ltd\PROJECTS\Ottawa\CO884.03 5646\_5650 Manotick Main St. Manotick\MXD\CO884.03 FIG 1 SITE LOCATION.mxd

**LEGEND**

 PROPERTY BOUNDARY

CLIENT: <b>HAWKINS PROPERTIES</b>		
SITE LOCATION: 5646 AND 5650 MANOTICK MAIN STREET MANOTICK, ONTARIO		
		
TITLE: <b>SITE LOCATION</b>		
DRAWN BY: JS	PROJECT NO.: CO884.03	CHECKED BY: GS
REVISION: 00	DATE: MAY 2024	<b>FIGURE: 1</b>

DATA SOURCE: ESRI  
MAP PROJECTION: NAD 1983 UTM Zone 18N



**LEGEND**

- PROPERTY BOUNDARY
- PARCEL FABRIC
- ⊕ DRINKING WATER WELL
- BOREHOLE
- ⊕ MONITORING WELL
- ⊠ TEST PIT

0 10 20 30  
Metres

DATA SOURCE: CITY OF OTTAWA  
MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:  
**HAWKINS PROPERTIES**

SITE LOCATION:  
**5646 AND 5650 MANOTICK MAIN STREET  
MANOTICK, ONTARIO**

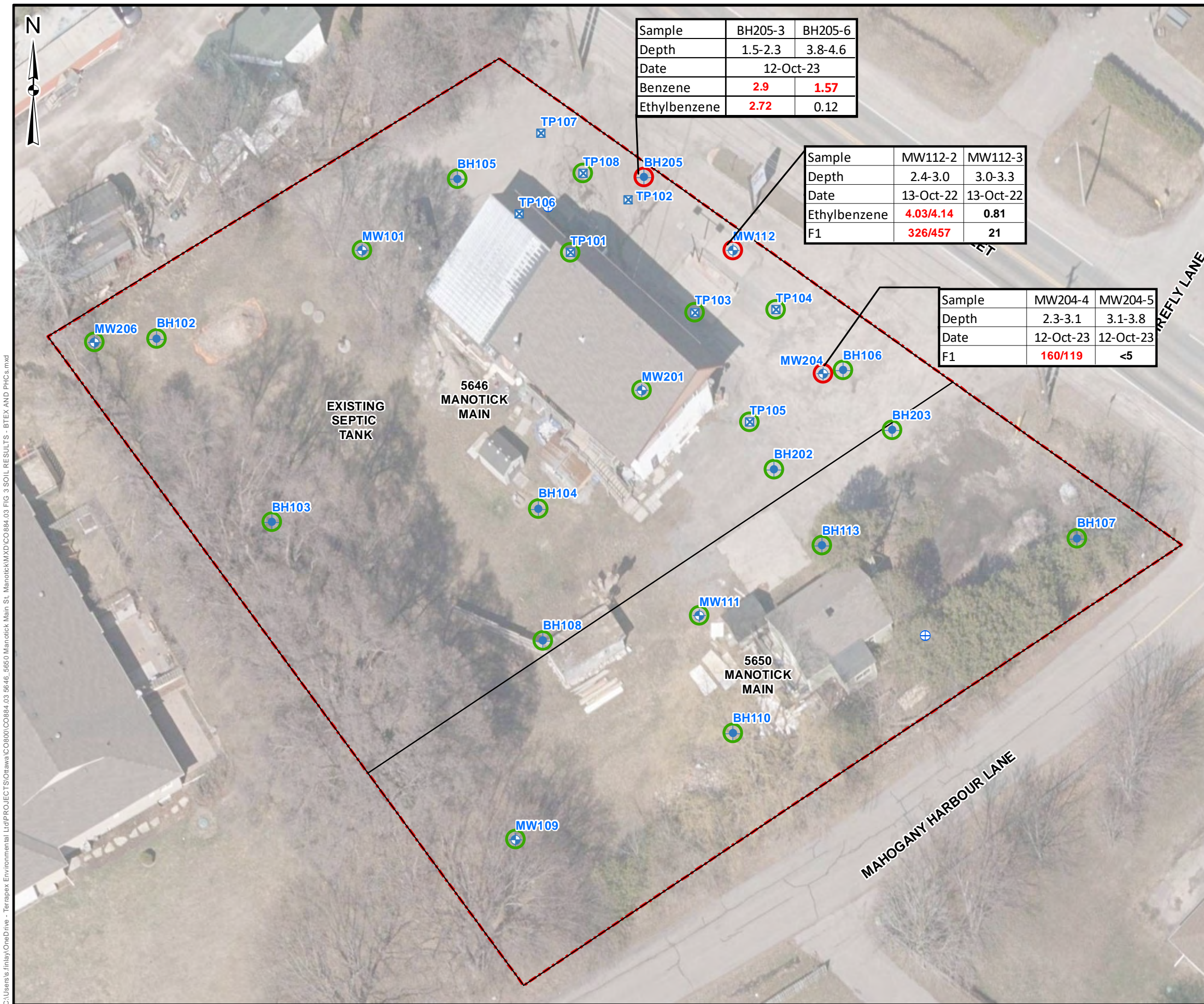


TITLE:  
**GENERAL SITE LAYOUT**

DRAWN BY: <b>JS/SF</b>	PROJECT NO.: <b>CO884.03</b>	CHECKED BY: <b>GS</b>
REVISION: <b>00</b>	DATE: <b>MAY 2024</b>	FIGURE: <b>2</b>

C:\Users\slinlay\OneDrive - Terrapex Environmental Ltd\PROJECTS\Ottawa\CO884.03\5646\_5650 Manotick Main St\_Manotick\MXD\CO884.03 FIG 2 GENERAL SITE LAYOUT.mxd

C:\Users\jfinlay\OneDrive - Terrapex Environmental Ltd\PROJECTS\Ottawa\CO884.03\5646\_5650 Manotick Main St. Manotick\MXD\CO884.03 FIG 3 SOIL RESULTS - BTEX AND PHCS.mxd



Sample	BH205-3	BH205-6
Depth	1.5-2.3	3.8-4.6
Date	12-Oct-23	
Benzene	2.9	1.57
Ethylbenzene	2.72	0.12

Sample	MW112-2	MW112-3
Depth	2.4-3.0	3.0-3.3
Date	13-Oct-22	13-Oct-22
Ethylbenzene	4.03/4.14	0.81
F1	326/457	21

Sample	MW204-4	MW204-5
Depth	2.3-3.1	3.1-3.8
Date	12-Oct-23	12-Oct-23
F1	160/119	<5

**LEGEND**

- PROPERTY BOUNDARY
- PARCEL FABRIC
- ⊕ DRINKING WATER WELL
- ⊕ BOREHOLE
- ⊕ MONITORING WELL
- ⊗ TEST PIT

**ANALYSIS INFORMATION**

- LESS THAN OR EQUAL TO TABLE 2 SCS
- GREATER THAN TABLE 2 SCS

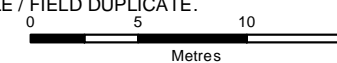
**STANDARD INFORMATION**

SAMPLE	DEPTH	DATE
PARAMETER	RESULT	MECP TABLE 2 SCS
Benzene		0.4
Ethylbenzene		1.6
F1		65

MECP TABLE 2 SCS
0.4
1.6
65

**VALUE** GREATER THAN SCS  
**VALUE** LESS THAN OR EQUAL TO SCS  
 MECP TABLE 2: FULL DEPTH GENERIC SCS IN A POTABLE GROUND WATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE WITH FINE TO MEDIUM TEXTURED SOIL.

- NOTES**
1. ALL UNITS ARE IN µg/g UNLESS OTHERWISE SPECIFIED
  2. DEPTHS ARE IN METRES BELOW GROUND SURFACE (mbgs)
  3. RESULTS PRESENTED AS # / # REPRESENTS PARENT SAMPLE / FIELD DUPLICATE.



DATA SOURCE: CITY OF OTTAWA  
 MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:  
**HAWKINS PROPERTIES**

SITE LOCATION:  
 5646 AND 5650 MANOTICK MAIN STREET  
 MANOTICK, ONTARIO



TITLE:  
**PRE-REMEDIATION SOIL ANALYTICAL RESULTS - BTEX / PHCS**

DRAWN BY: JS/SF	PROJECT NO.: CO884.03	CHECKED BY: GS
--------------------	--------------------------	-------------------

REVISION: 00	DATE: MAY 2024	FIGURE: <b>3</b>
-----------------	-------------------	---------------------

Sample	CS167
Depth	2.5
Date	23-Apr-24
Ethylbenzene	1.14/8.71
F1	243/604

**LEGEND**

- PROPERTY BOUNDARY
  - PARCEL FABRIC
  - ⊕ DRINKING WATER WELL
  - BOREHOLE
  - ⊕ MONITORING WELL
  - ⊗ TEST PIT
  - ▲ CONFIRMATORY SOIL SAMPLE
  - NORTHERN EXCAVATION
  - SOUTHERN EXCAVATION
- ANALYSIS INFORMATION**
- LESS THAN OR EQUAL TO TABLE 2 SCS
  - GREATER THAN TABLE 3 SCS

**STANDARD INFORMATION**

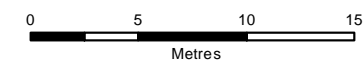
SAMPLE		MECPTABLE 2 SCS
DEPTH	RESULT	
DATE		
PARAMETER	RESULT	
Ethylbenzene		1.6
F1		65

**VALUE** GREATER THAN SCS  
**VALUE** LESS THAN OR EQUAL TO SCS

MECPTABLE 2: FULL DEPTH GENERIC SCS IN A POTABLE GROUND WATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE WITH FINE TO MEDIUM TEXTURED SOIL.

**NOTES**

1. ALL UNITS ARE IN µg/g UNLESS OTHERWISE SPECIFIED
2. DEPTHS ARE IN METRES BELOW GROUND SURFACE (mbgs)
3. RESULTS PRESENTED AS # / # REPRESENTS PARENT SAMPLE / FIELD DUPLICATE.



DATA SOURCE: CITY OF OTTAWA  
MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:

HAWKINS PROPERTIES

SITE LOCATION:

5646 AND 5650 MANOTICK MAIN STREET,  
MANOTICK, ONTARIO

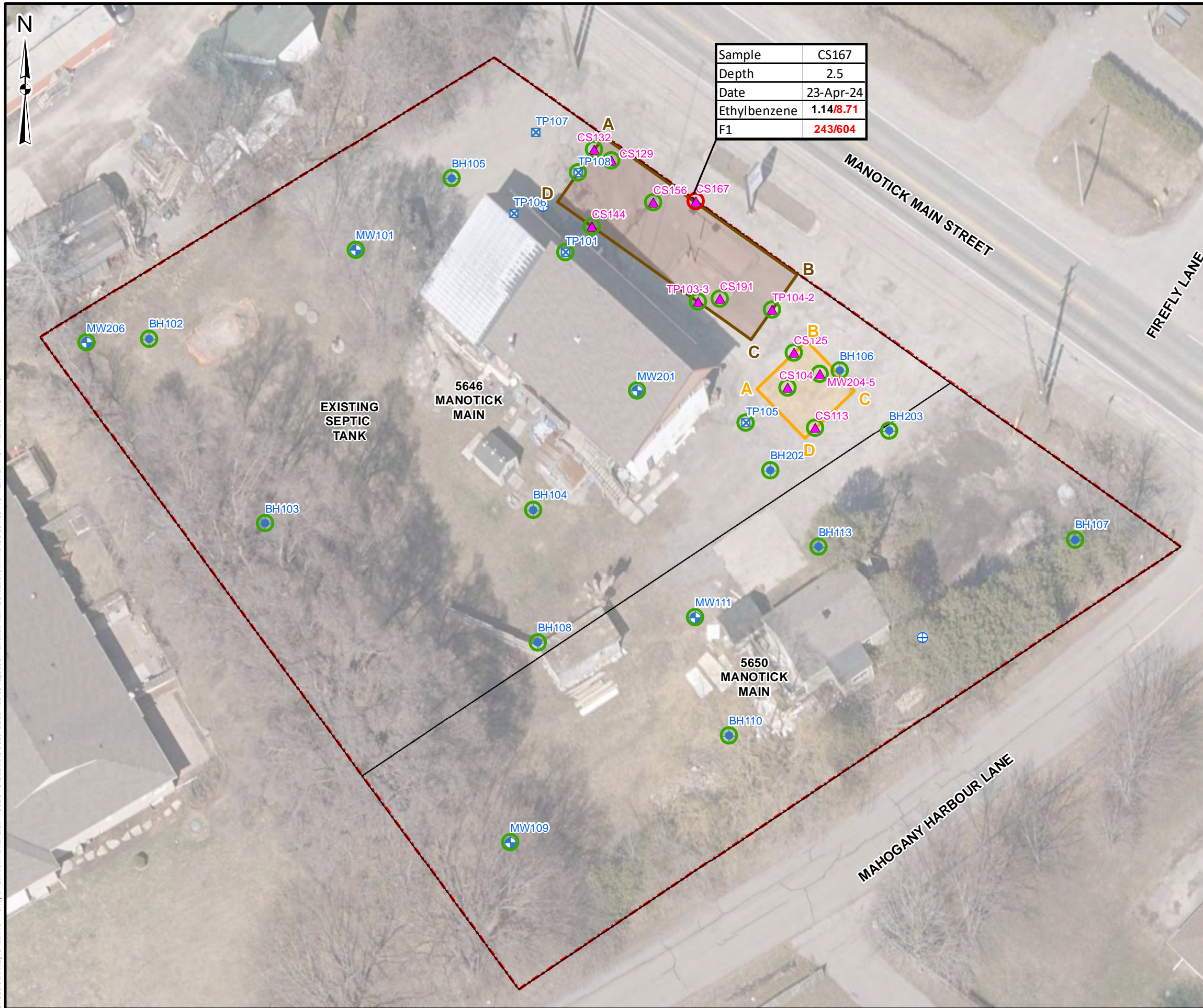


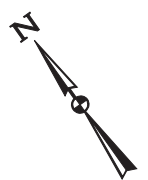
TITLE:

EXTENT OF REMEDIATION

DRAWN BY: JS/SF	PROJECT NO.: CO884.03	CHECKED BY: GS
REVISION: 00	DATE: MAY 2024	FIGURE: <b>4</b>

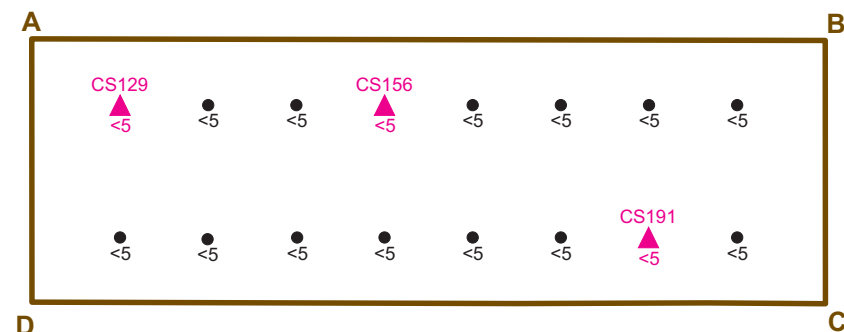
C:\Users\jfinlay\OneDrive - Terrapex Environmental Ltd\PROJECTS\Ottawa\CO884.03\5646\_5650 Manotick Main St. Manotick\MXD\CO884.03 FIG 4 EXTENT OF REMEDIATION.mxd



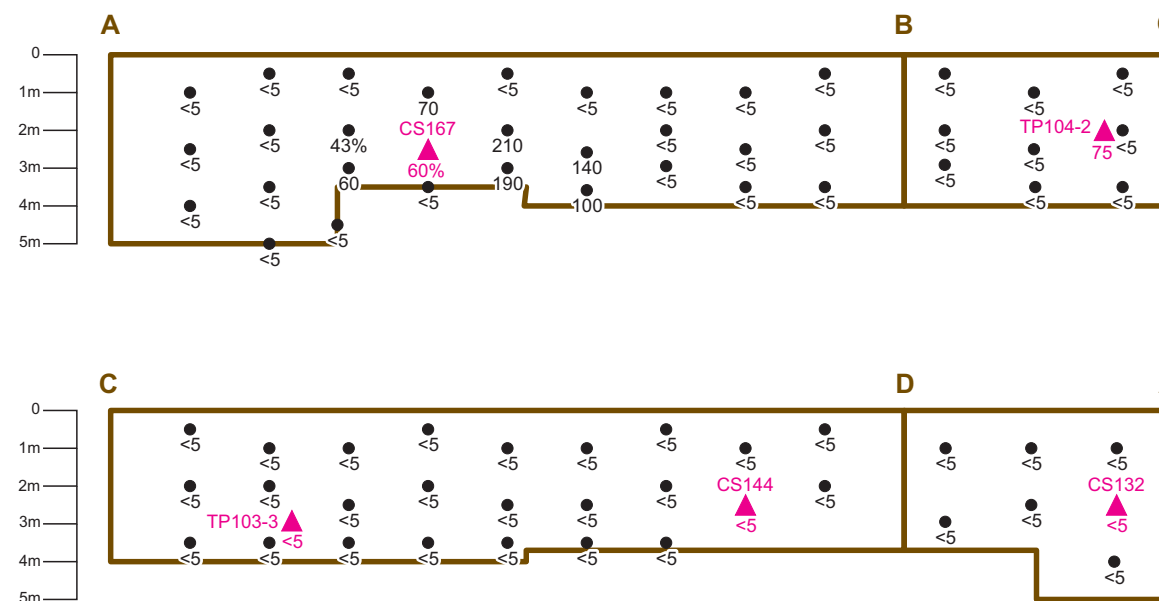


### NORTHERN EXCAVATION

PLAN VIEW



WALL DIAGRAM



### LEGEND

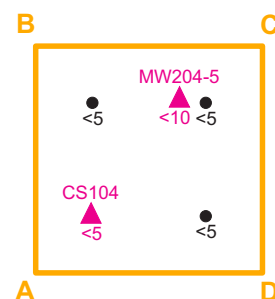
- 50 SOIL VAPOUR (SV) READING (PPM)
- ▲ 5 CONFIRMATORY SOIL SAMPLE AND SV READING

Note: Soil samples BH106-5B and MW204-5 were collected and analysed as part of the Phase II ESAs previously completed in 2022 and 2023 respectively.

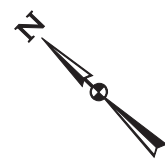
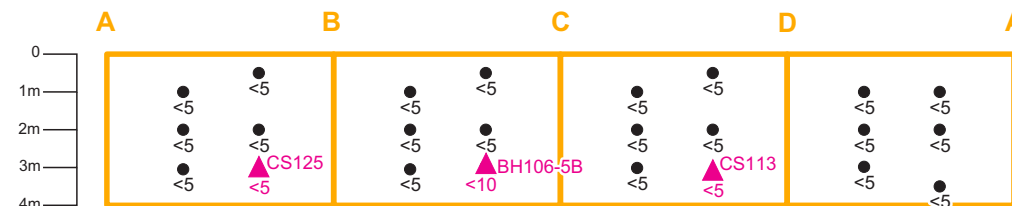


### SOUTHERN EXCAVATION

PLAN VIEW



WALL DIAGRAM



CLIENT: HAWKINS PROPERTIES		
SITE LOCATION: 5646 AND 5650 MANOTICK MAIN STREET MANOTICK, ONTARIO		
TITLE: <b>CONFIRMATORY SOIL SAMPLE/ VAPOUR SURVEY</b>		
DRAWN BY: SF	PROJECT NO.: CO884.03	CHECKED BY: GS
REVISION: 00	DATE: MAY 2024	FIGURE: <b>5</b>

## TABLES



**TABLE 1: SOIL ANALYTICAL RESULTS - METALS AND INORGANICS  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

SAMPLE NAME	UNITS	STANDARDS Table 1 Non-Agricultural	GS1	GS2	GS3	GS4	GS5	GS6	GS7	GS8	GS9	GS10	GS11 Duplicate of GS10	RPD
Sampling Date	dd-mmm-yy	-	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	-
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	-
Certificate of Analysis No.	-	-	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	-
<b>METALS</b>														
Barium	ug/g	220	18.2	17.6	16.3	16.6	15.7	15.9	16.9	16.2	17.7	17.1	18.2	-
Beryllium	ug/g	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Boron (Total)	ug/g	36	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Cadmium	ug/g	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Chromium Total	ug/g	70	6	7	7	7	6	7	7	7	9	9	7	-
Cobalt	ug/g	21	3.2	3.4	3.1	3.7	2.9	3	3.1	3.1	3.5	4.1	3.3	-
Copper	ug/g	92	6.7	7.2	6.7	7.2	8.2	6.7	6.8	6.7	7.1	6.9	7.1	-
Lead	ug/g	120	2	2	2	2	2	2	2	2	2	2	2	-
Mercury	ug/g	0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-
Molybdenum	ug/g	2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Nickel	ug/g	82	5	6	5	5	5	5	5	5	6	6	5	-
Silver	ug/g	0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Thallium	ug/g	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Uranium	ug/g	2.5	<0.50	<0.50	<0.50	0.62	<0.50	<0.50	0.54	0.52	0.58	0.66	0.55	-
Vanadium	ug/g	86	14.6	17.8	16.3	18.9	15	16	18.1	20.7	25.5	23.5	16.5	-
Zinc	ug/g	290	11	11	10	11	10	10	10	11	10	11	11	-
<b>HYDRIDE-FORMING METALS</b>														
Antimony	ug/g	1.3	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-
Arsenic	ug/g	18	<1	<1	<1	<1	<1	<1	<1	<1	1	1	<1	-
Selenium	ug/g	1.5	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-

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 1: Full Depth Background SCS

Non-Agricultural Property-Use, Any Soil Texture

- Parameter not analyzed

m bg meters below grade

ppm parts per million by volume

% LEL percent of the lower explosive limit

RPD Relative percent difference

NV No Value; no standard established

NA Not Applicable; no standard established because a standard is not required

**Value** Exceeds standard

Value Detection limit exceeds standard

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

**TABLE 2: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

SAMPLE NAME	UNITS	STANDARDS Table 1 Non- Agricultural	GS1	GS2	GS3	GS4	GS5	GS6	GS7	GS8	GS9	GS10	GS11 Duplicate of GS10	RPD
Sampling Date	dd-mmm-yy	-	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	
Certificate of Analysis No.	-	-	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	24Z139245	
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>														
Benzene	ug/g	0.020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
Toluene	ug/g	0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Ethylbenzene	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
m-Xylene & p-Xylene	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
o-Xylene	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Xylenes (Total)	ug/g	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
<b>PETROLEUM HYDROCARBONS (PHCs)</b>														
Petroleum Hydrocarbons F1	ug/g	25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Petroleum Hydrocarbons F1-BTEX	ug/g	25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Petroleum Hydrocarbons F2	ug/g	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Petroleum Hydrocarbons F3	ug/g	240	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
Petroleum Hydrocarbons F4	ug/g	120	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-

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 1: Full Depth Background SCS

Non-Agricultural Property-Use, Any Soil Texture

-	Not analyzed
m bg	meters below grade
ppm	parts per million by volume
% LEL	percent of the lower explosive limit
NV	No Value; no standard established
NA	Not Applicable; no standard established because a standard is not required
RPD	Relative percent difference
<b>Value</b>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard
<sup>1</sup>	F1 fraction does not include BTEX

**TABLE 3: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

Sample Name	Units	STANDARDS Table 2 I/C/C fine/medium	TP101-4	TP103-4	TP104-2	TP105-4	TP108-2	Methanol Blank	Methanol Blank
Vapour Reading	see note	-	<5 ppm	<5 ppm	75 ppm	<5 ppm	15 ppm	-	-
Sample Depth	m bg	-	4.0	3.0	2.0	3.0	2.0	-	-
Sampling Date	dd-mmm-yy	-	12-Apr-24	12-Apr-24	12-Apr-24	12-Apr-24	15-Apr-24	12-Apr-24	15-Apr-24
Analysis Date (on or before)	dd-mmm-yy	-	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	17-Apr-24	16-Apr-24	17-Apr-24
Certificate of Analysis No.	-	-	24Z138772	24Z138772	24Z138772	24Z138772	24Z139246	24Z138772	24Z139246
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>									
Benzene	ug/g	0.40	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	9.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<b>PETROLEUM HYDROCARBONS (PHCs)</b>									
Petroleum Hydrocarbons F1 <sup>1</sup>	ug/g	65	<5	<5	22	<5	<5	<5	<5
Petroleum Hydrocarbons F2	ug/g	250	<10	<10	<10	<10	<10	-	-
Petroleum Hydrocarbons F3	ug/g	2,500	<50	<50	<50	<50	<50	-	-
Petroleum Hydrocarbons F4	ug/g	6,600	<50	<50	<50	<50	<50	-	-
Petroleum Hydrocarbons F4G	ug/g	6,600	NA	NA	NA	NA	NA	-	-

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

Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

ppm parts per million by volume

% LEL percent of the lower explosive limit

NV No Value; no standard established

NA Not Applicable; no standard established because a standard is not required

RPD Relative percent difference

**Value** Exceeds standard

Value Detection limit exceeds standard

<sup>1</sup> F1 fraction does not include BTEX

**TABLE 4: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

Sample Name	Units	STANDARDS Table 2 I/C/C fine/medium	CS104	CS1004 DUPLICATE OF CS104	RPD	CS113	CS125	CS129	CS132	CS144	CS156	CS167	CS1067 DUPLICATE OF CS167	RPD
Vapour Reading	see note	-	<5 ppm	-	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	60% LEL	-	-
Sample Depth	m bg	-	4.0	4.0	-	3.0	3.0	5.0	2.5	2.5	3.5	2.5	2.5	-
Sampling Date	dd-mmm-yy	-	18-Apr-24	18-Apr-24	-	18-Apr-24	18-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	-
Analysis Date (on or before)	dd-mmm-yy	-	24-Apr-24	24-Apr-24	-	24-Apr-24	24-Apr-24	24-Apr-24	29-Apr-24	29-Apr-24	25-Apr-24	1-May-24	1-May-24	-
Certificate of Analysis No.	-	-	24Z140682	24Z140682	-	24Z140682	24Z140682	24Z142310	24Z142312	24Z142312	24Z142833	24Z142834	24Z142834	-
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>														
Benzene	ug/g	0.40	<0.02	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
Toluene	ug/g	9.0	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	-
Ethylbenzene	ug/g	1.6	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.14	<b>8.71</b>	154%
Xylenes (Total)	ug/g	30	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.8	27.6	152%
<b>PETROLEUM HYDROCARBONS (PHCs)</b>														
Petroleum Hydrocarbons F1 <sup>1</sup>	ug/g	65	<5	<5	-	<5	<5	<5	<5	<5	<5	<b>243</b>	<b>604</b>	85%
Petroleum Hydrocarbons F2	ug/g	250	<10	<10	-	<10	<10	<10	<10	<10	<10	47	60	-
Petroleum Hydrocarbons F3	ug/g	2,500	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	-
Petroleum Hydrocarbons F4	ug/g	6,600	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	-
Petroleum Hydrocarbons F4G	ug/g	6,600	NA	NA	-	NA	NA	NA	NA	NA	NA	NA	NA	-

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

Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
ppm	parts per million by volume
% LEL	percent of the lower explosive limit
NV	No Value; no standard established
NA	Not Applicable; no standard established because a standard is not required
RPD	Relative percent difference
<b>Value</b>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard
<sup>1</sup>	F1 fraction does not include BTEX

**TABLE 4: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

Sample Name	Units	STANDARDS Table 2 I/C/C fine/medium	CS191	Methanol Blank	Methanol Blank
Vapour Reading	see note	-	<5 ppm	-	-
Sample Depth	m bg	-	4.0	-	-
Sampling Date	dd-mmm-yy	-	24-Apr-24	18-Apr-24	23-Apr-24
Analysis Date (on or before)	dd-mmm-yy	-	25-Apr-24	24-Apr-24	26-Apr-24
Certificate of Analysis No.	-	-	24Z142836	24Z140682	24Z142312
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>					
Benzene	ug/g	0.40	<0.02	<0.02	<0.02
Toluene	ug/g	9.0	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	<0.05	<0.05	<0.05
<b>PETROLEUM HYDROCARBONS (PHCs)</b>					
Petroleum Hydrocarbons F1 <sup>1</sup>	ug/g	65	<5	<5	<5
Petroleum Hydrocarbons F2	ug/g	250	<10	-	-
Petroleum Hydrocarbons F3	ug/g	2,500	<50	-	-
Petroleum Hydrocarbons F4	ug/g	6,600	<50	-	-
Petroleum Hydrocarbons F4G	ug/g	6,600	NA	-	-

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

Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
ppm	parts per million by volume
% LEL	percent of the lower explosive limit
NV	No Value; no standard established
NA	Not Applicable; no standard established because a standard is not required
RPD	Relative percent difference
<b>Value</b>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard
<sup>1</sup>	F1 fraction does not include BTEX

**TABLE 5: SOIL ANALYTICAL RESULTS - BTEX AND PHCs  
5646 AND 5650 MANOTICK MAIN STREET, MANOTICK, ONTARIO**

Sample Name	Units	STANDARDS Table 2 I/C/C fine/medium	SP101	SP103	SP105	SP201	SP203	SP205	Methanol Blank	Methanol Blank
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	-	-
Sampling Date	dd-mmm-yy	-	23-Apr-24	23-Apr-24	23-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	23-Apr-24	25-Apr-24
Analysis Date (on or before)	dd-mmm-yy	-	1-May-24	1-May-24	1-May-24	30-Apr-24	30-Apr-24	30-Apr-24	1-May-24	30-Apr-24
Certificate of Analysis No.	-	-	24Z142834	24Z142834	24Z142834	24Z143377	24Z143377	24Z143377	24Z142834	24Z143377
<b>BENZENE, TOLUENE, ETHYBENZENE, XYLENES (BTEX)</b>										
Benzene	ug/g	0.40	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	ug/g	9.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<b>PETROLEUM HYDROCARBONS (PHCs)</b>										
Petroleum Hydrocarbons F1 <sup>1</sup>	ug/g	65	<5	<5	<5	<5	<5	<5	<5	<5
Petroleum Hydrocarbons F2	ug/g	250	<10	<10	<10	<10	<10	<10	-	-
Petroleum Hydrocarbons F3	ug/g	2,500	<50	<50	<50	<50	<50	<50	-	-
Petroleum Hydrocarbons F4	ug/g	6,600	<50	<50	<50	<50	<50	<50	-	-
Petroleum Hydrocarbons F4G	ug/g	6,600	NA	NA	NA	NA	NA	NA	-	-

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  
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

-	Not analyzed
m bg	meters below grade
ppm	parts per million by volume
% LEL	percent of the lower explosive limit
NV	No Value; no standard established
NA	Not Applicable; no standard established because a standard is not required
RPD	Relative percent difference
<b>Value</b>	Exceeds standard
<u>Value</u>	Detection limit exceeds standard
<sup>1</sup>	F1 fraction does not include BTEX

**ATTACHMENT A**  
**EXCESS SOIL REGISTRY DOCUMENTATION**



April 5, 2024  
CO884.03

Hawkins Properties (595831 Ontario Inc.)  
1220 Potter Drive  
Ottawa, Ontario  
K4M 1C8

Attention: Jade Hawkins  
General Manager

Re: **Excess Soils  
Assessment of Past Uses**  
5646 and 5650 Manotick Main Street, Ottawa, Ontario

Dear Ms. Hawkins,

Further to your request, Terrapex Environmental Ltd. (Terrapex) is pleased to provide this Assessment of Past Uses report, as required for under Ontario Regulation (O.Reg.) 406/19, for removal of contaminated soil from the property located at 5646 and 5650 Manotick Main Street, Ottawa, Ontario (the Site), for disposal at a licensed landfill facility, to facilitate the remediation of the properties.

The *Phase Two Environmental 5646 & 5650 Manotick Main Street, Ottawa Ontario* completed by Terrapex and dated November 1, 2023, indicated that the soil present in the vicinity of the former tank nest and pump islands, present at a depth of approximately 1.5 to 5.0 m bg at the Site do not meet the O.Reg. 153/04 Table 3 Site Condition Standards. The intent is to remediate environmental soil impacts at the site by excavation of impacted soils for off-site disposal at a licensed landfill facility. Soils removed off-site for this purpose will become "Excess Soils" as per O.Reg 406/19.

As per O.Reg.406/19, Section 11(3), as existing site data collected has confirmed the presence of contaminated soils at the site that are likely to become "Excess Soils" under the Regulation, then these past assessment activities and data are deemed to satisfy the requirements for an Assessment of Past Uses Report.

Furthermore, it is the opinion of the Qualified Person that any soils at the site with concentrations of contaminants exceeding the Table 2 Site Condition Standards are unsuitable for re-use at this site, or any other property, and that the only practical remedial option is off-site disposal at a licensed landfill facility. As such, in accordance with Section B, Subsection 2 (6) of the Rules for Soil Management and Excess Soil Quality Standards, the sampling and analysis requirements set out in Section B will not be followed.



## **CLOSURE**

The work described herein was conducted in accordance with the terms of reference for this project, agreed upon by Hawkins Properties and Terrapex Environmental Ltd. Terrapex Environmental Ltd. has exercised due care, diligence, and judgement in the performance of this assessment; however, studies of this nature have inherent limitations. This report is intended to provide only a general assessment of substances of concern that may be present at the site. By necessity, the findings and observations regarding actual or potential presence of such substances are based solely on the extent of observations and information gathered during the assessment, and subsequent investigations of differing scope may reveal conflicting results.

This report has been prepared for the sole use of Hawkins Properties. Terrapex Environmental Ltd. 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 Hawkins Properties.

Sincerely,

**TERRAPEX ENVIRONMENTAL LTD.**

Greg Sabourin, P.Eng.  
Project Manager  
Qualified Person



April 5, 2024  
CO884.03

Hawkins Properties (595831 Ontario Inc.)  
1220 Potter Drive  
Ottawa, Ontario  
K4M 1C8

Attention: Jade Hawkins  
General Manager

Re: **Excess Soils  
Destination Assessment Report**  
5646 and 5650 Manotick Main Street, Ottawa, Ontario

Dear Ms. Hawkins,

Further to your request, Terrapex Environmental Ltd. (Terrapex) is pleased to provide this Destination Assessment Report, as required for under Ontario Regulation (O.Reg.) 406/19, for removal of contaminated soil from the properties located at 5646 and 5650 Manotick Main Street, Ottawa, Ontario (the Site), for disposal at a licensed landfill facility, to facilitate the remediation of the properties.

Prior assessment activities at the Site have indicated the presence of contaminated soils with concentrations of petroleum hydrocarbon-related parameters exceeding the Ontario Regulation (O.Reg.) 153/04 Table 3 Site Condition Standards. The intent is to dispose of all impacted soil excavated during the Site upgrade work and transport it off-site for disposal at a licensed landfill facility.

It is the opinion of the Qualified Person that base on available results and field observations all soils excavated at the Site can be inferred to have concentrations of contaminants exceeding the Table 3 Site Condition Standards, and similarly exceeding the Table 2 Site Condition Standards, are unsuitable for re-use at this site, or any other property, and that the only practical option is off-site disposal at a licensed landfill facility. No other Excess Soils are expected to be generated at the Site during the remediation.

Estimated Volume of Excess Soil: 900 m<sup>3</sup>

Contaminated Excess Soils will be removed off-site for disposal at:

Company Name: GFL  
Street: 17125 Lafleche Rd.  
City: Moose Creek  
Province: ON  
Postal Code: K0A 1M0

Governing Instrument: Environmental Compliance Approval NUMBER 8197-6NYJXP

Contingent Disposal Site: None

Processing of Excess Soils Prior to Removal: None

Approximate Date of Soil Movement: April and May 2024

Excess Soil Expected to Meet Table 2.1: None

Fill Management Plan: Not required/developed

## **CLOSURE**

The work described herein was conducted in accordance with the terms of reference for this project, agreed upon by Hawkins Properties and Terrapex Environmental Ltd.

Terrapex Environmental Ltd. has exercised due care, diligence, and judgement in the performance of this assessment; however, studies of this nature have inherent limitations. This report is intended to provide only a general assessment of substances of concern that may be present within the building at the site. By necessity, the findings and observations regarding actual or potential presence of such substances are based solely on the extent of observations and information gathered during the assessment, and subsequent investigations of differing scope may reveal conflicting results.

This report has been prepared for the sole use of Suncor. Terrapex Environmental Ltd. 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 Suncor.

Sincerely,

**TERRAPEX ENVIRONMENTAL LTD.**

Greg Sabourin, P.Eng..  
Project Manager

## Notice Details

Company Name	<b>Terrapex</b>
Notice ID	<b>N00001330</b>
Filing Type	<b>Project Area Notice</b>
Submission Status	<b>In Progress</b>
Notice last updated by	<b>Greg Sabourin on Apr 18, 2024 12:25 PM</b>

## Pre-Screening Questions

Review the notice filing requirements for project areas to ensure you are required to submit a notice before you begin your submission. For more information, visit our Excess Soil [webpage](#). If you voluntarily file a project area notice, you will be required to pay the applicable fees and your notice will be publicly available.  
Do you wish to proceed?

**Yes**

## Contact Details

Contact Name	<b>Robert Gourlay</b>
Contact Type	<b>Operator</b>
Company Name	<b>Robert Gourlay Equipment</b>
Email	<b>bobgourlay@sympatico.ca</b>
Business Phone Number	<b>6138228722</b>
Address	<b>6431 Bank Street, Ottawa, Ontario, K0A 2P0</b>

---

Contact Name	<b>Domenic LaDuca</b>
Contact Type	<b>Project Leader</b>
Company Name	<b>Hawkins Properties</b>

Email **mladuca@hawkinsproperties.org**  
Business Phone Number **6135396440**  
Address **650a Eagleson Road, Kanata, Ontario, K2M1h4**

---

Contact Name **Gregory Sabourin**  
Contact Type **Authorized Person**  
Company Name **Terrapex Environmental Inc.**  
Email **g.sabourin@terrapex.com**  
Business Phone Number **6135587571**  
Address **20 Gurdwara ON, Ottawa, Ontario, K2E 8B3**

---

Contact Name **Robert Gourlay**  
Contact Type **Responsible for Transportation**  
Company Name **Robert Gourlay Equipment**  
Email **bobgourlay@sympatico.ca**  
Business Phone Number **6138228722**  
Address **6431 Bank Street, Ottawa, Ontario, K0A2P0**

---

## Project Details

Project Type **Soil remediation**  
Project Name **MM24/25**  
Description of the Project **Remedial Excavation of petroleum impacted soil at a former retail fuel outlet.**  
Description of the Location of the Project Area **Former retail fuel outlet at 5650 Manotick Main Street, Ottawa, Ontario**

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## Property Locations

Property Type	<b>Non-linear Property</b>
Primary Property	<input checked="" type="checkbox"/>
Municipality	<b>Ottawa, City of</b>
Property Description	<b>Former retail fuel outlet located at the southern side of Manotick Main Street</b>
Latitude	<b>45.220121</b>
Longitude	<b>-75.676855</b>
Legal Description of the Property	<b>Part of Lot 4, Concession A North Gower (aka Concession Broken Front)</b>

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## Qualified Person retained to prepare or oversee the preparation of documents

Was a Qualified Person retained to prepare or oversee the preparation of documents required under the regulation? **Yes**

Contact Name	<b>Gregory Sabourin</b>
Company Name	<b>Terrapex Environmental Ltd.</b>
Email	<b>g.sabourin@terrapex.com</b>
Business Phone Number	<b>6135587571</b>
Address	<b>20 Gurdwara Road, Ottawa, Ontario, K2E 8B3</b>

---

## Peer Review or Certification Process

Was a peer review or certification process undertaken for this project? **No**

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## Soil Details

### Applicable Excess Soil Quality Standards

Table	Type of Property Use	Estimated Amount of Excess Soil (m3)
Does not meet a standard	Not Applicable	<b>1500</b>
	Total Estimated Amount of Excess Soil (m3)	<b>1500.00</b>

### List of Substances

Use of Substance	Category	Name of Substance
------------------	----------	-------------------

### Destination Sites

Site Type	<b>Landfill or Dump</b>
Site Name	<b>GFL Moose Creek Landfill</b>
Location	<b>17125 LaFleche Road, Moose Creek, Ontario, KOC1W0, Ontario KOC1W0 Canada</b>
Community	<b>North Stormont, Township of</b>
Latitude	<b>45.30693</b>
Longitude	<b>-74.995858</b>
Estimated Amount of Excess Soil (m3)	<b>1500</b>

**ATTACHMENT B**  
**SITE PHOTOGRAPHS**



**Client:** 595831 Ontario Inc.**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON**Project No:** CO884.03**Photo No:** 1**Date:** April 15, 2024**Viewing Direction:**  
southwest**Description:**

View of test pit TP108.

**Photo No:** 2**Date:** April 15, 2024**Viewing Direction:**  
west**Description:**

View of test pit TP108.



**Client:** 595831 Ontario Inc.**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON**Project No:** CO884.03**Photo No:** 3**Date:** April 18, 2024**Viewing Direction:** northwest**Description:**

View of the area of the southern excavation.

**Photo No:** 4**Date:** April 18, 2024**Viewing Direction:** southeast**Description:**

View of the area of the southern excavation.



**Client:** 595831 Ontario Inc.

**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON

**Project No:** CO884.03

**Photo No:** 5

**Date:** April 23, 2024

**Viewing Direction:** northwest

**Description:**

View of the clean stockpile SP200.



**Photo No:** 6

**Date:** April 18, 2024

**Viewing Direction:** northwest

**Description:**

View of the clean stockpile SP100.



**Client:** 595831 Ontario Inc.**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON**Project No:** CO884.03**Photo No:** 7**Date:** April 18, 2024**Viewing Direction:** southeast**Description:**

View of stockpiled contaminated soil.

**Photo No:** 8**Date:** April 18, 2024**Viewing Direction:** west**Description:**

View of the final dimension of the southern excavation.



**Client:** 595831 Ontario Inc.

**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON

**Project No:** CO884.03

**Photo No:** 9

**Date:** April 24, 2024

**Viewing Direction:** east

**Description:**

View of the central portion of the northern excavation and the removal of MW112.



**Photo No:** 10

**Date:** April 23, 2024

**Viewing Direction:** south

**Description:**

View of the northern excavation along the eastern property line (east wall).



**Client:** 595831 Ontario Inc.**Site Location:** 5646 and 5650 Manotick Main Street, Ottawa, ON**Project No:** CO884.03**Photo No:** 11**Date:** April 24, 2024**Viewing Direction:**  
southwest**Description:**

View of the shipping of contaminated soil.



**ATTACHMENT C**  
**WASTE DOCUMENTATION**

Moose Creek Weigh Bills - DRAFT

Ticket Number	Date (entered Moose Creek)	Qt. (kg)	
1	611412	23-Apr-24	31950
2	611459	24-Apr-24	27610
3	611449	24-Apr-24	36140
4	611465	24-Apr-24	45610
5	611471	24-Apr-24	26730
6	611474	24-Apr-24	14680
7	611517	24-Apr-24	24080
8	611525	24-Apr-24	21010
9	611532	24-Apr-24	19960
10	611539	24-Apr-24	19030
11	611550	24-Apr-24	34780
12	611587	24-Apr-24	18550
13	611589	24-Apr-24	12020
14	611579	24-Apr-24	23770
15	611605	25-Apr-24	21210
16	611645	25-Apr-24	27650
17	611655	25-Apr-24	15690
18	611662	25-Apr-24	26410
19	611669	25-Apr-24	27400
20	611930	25-Apr-24	46400

520680  
**520.68**

~~694.24~~





TICKET#: 611412

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 23/04/2024 8:20 am  
EXIT: 23/04/2024 8:20 am

VEHICLE #: PA27014  
CONTAINER:  
LICENSE:  
REFERENCE: GFL MANUAL #29831

GROSS 51600 kg Manual  
TARE 19650 kg Manual  
NET 31950 kg

Qty Unit Description  
31.95 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611412

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 23/04/2024 8:20 am  
EXIT: 23/04/2024 8:20 am

VEHICLE: PA27014  
CONTAINER:  
LICENSE:  
REFERENCE: GFL MANUAL #29831

GROSS 51600 kg k Manual  
TARE 19650 kg Manual  
NET 31950 kg

QTY Unit Description  
31.95 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611459

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:27 am  
EXIT: 24/04/2024 10:51 am

VEHICLE #: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 48730 kg Scale In  
TARE 21120 kg Scale Out  
NET 27610 kg

Qty Unit Description  
27.61 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611459

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:27 am  
EXIT: 24/04/2024 10:51 am

VEHICLE: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 48730 kg k Scale In  
TARE 21120 kg Scale Out  
NET 27610 kg

QTY Unit Description  
27.61 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611449

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:10 am  
EXIT: 24/04/2024 10:31 am

VEHICLE #: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 57070 kg Scale In  
TARE 20930 kg Scale Out  
NET 36140 kg

Qty Unit Description  
36.14 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611449

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:10 am  
EXIT: 24/04/2024 10:31 am

VEHICLE: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 57070 kg k Scale In  
TARE 20930 kg Scale Out  
NET 36140 kg

QTY Unit Description  
36.14 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611465

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:30 am  
EXIT: 24/04/2024 11:12 am

VEHICLE #: PA34310  
CONTAINER:  
LICENSE: PA34310  
REFERENCE:

GROSS 65630 kg Scale In  
TARE 20020 kg Scale Out  
NET 45610 kg

Qty Unit Description  
45.61 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611465

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:30 am  
EXIT: 24/04/2024 11:12 am

VEHICLE: PA34310  
CONTAINER:  
LICENSE: PA34310  
REFERENCE:

GROSS 65630 kg k Scale In  
TARE 20020 kg Scale Out  
NET 45610 kg

QTY Unit Description  
45.61 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611471

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:50 am  
EXIT: 24/04/2024 11:18 am

VEHICLE #: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 46690 kg Scale In  
TARE 19960 kg Scale Out  
NET 26730 kg

Qty Unit Description  
26.73 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611471

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:50 am  
EXIT: 24/04/2024 11:18 am

VEHICLE: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 46690 kg k Scale In  
TARE 19960 kg Scale Out  
NET 26730 kg

QTY Unit Description  
26.73 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611474

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:56 am  
EXIT: 24/04/2024 11:23 am

VEHICLE #: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 29600 kg Scale In  
TARE 14920 kg Scale Out  
NET 14680 kg

Qty Unit Description  
14.68 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611474

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 10:56 am  
EXIT: 24/04/2024 11:23 am

VEHICLE: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 29600 kg k Scale In  
TARE 14920 kg Scale Out  
NET 14680 kg

QTY Unit Description  
14.68 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611517

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 12:58 pm  
EXIT: 24/04/2024 1:23 pm

VEHICLE #: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 45180 kg Scale In  
TARE 21100 kg Scale Out  
NET 24080 kg

Qty Unit Description  
24.08 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611517

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 12:58 pm  
EXIT: 24/04/2024 1:23 pm

VEHICLE: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 45180 kg k Scale In  
TARE 21100 kg Scale Out  
NET 24080 kg

QTY Unit Description  
24.08 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611525

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 1:24 pm  
EXIT: 24/04/2024 1:42 pm

VEHICLE #: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 42120 kg Scale In  
TARE 21110 kg Scale Out  
NET 21010 kg

Qty Unit Description  
21.01 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611525

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 1:24 pm  
EXIT: 24/04/2024 1:42 pm

VEHICLE: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 42120 kg k Scale In  
TARE 21110 kg Scale Out  
NET 21010 kg

QTY Unit Description  
21.01 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:





TICKET#: 611532

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 1:38 pm  
EXIT: 24/04/2024 2:03 pm

VEHICLE #: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 39890 kg Scale In  
TARE 19930 kg Scale Out  
NET 19960 kg

Qty Unit Description  
19.96 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611532

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 1:38 pm  
EXIT: 24/04/2024 2:03 pm

VEHICLE: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 39890 kg k Scale In  
TARE 19930 kg Scale Out  
NET 19960 kg

QTY Unit Description  
19.96 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611539

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 2:11 pm  
EXIT: 24/04/2024 2:23 pm

VEHICLE #: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 34100 kg Scale In  
TARE 15070 kg Scale Out  
NET 19030 kg

Qty Unit Description  
19.03 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611539

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 2:11 pm  
EXIT: 24/04/2024 2:23 pm

VEHICLE: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 34100 kg k Scale In  
TARE 15070 kg Scale Out  
NET 19030 kg

QTY Unit Description  
19.03 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611550

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 2:30 pm  
EXIT: 24/04/2024 2:57 pm

VEHICLE #: PA34810  
CONTAINER:  
LICENSE: PA34810  
REFERENCE:

GROSS 54760 kg Scale In  
TARE 19980 kg Scale Out  
NET 34780 kg

Qty Unit Description  
34.78 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611550

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 2:30 pm  
EXIT: 24/04/2024 2:57 pm

VEHICLE: PA34810  
CONTAINER:  
LICENSE: PA34810  
REFERENCE:

GROSS 54760 kg k Scale In  
TARE 19980 kg Scale Out  
NET 34780 kg

QTY Unit Description  
34.78 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611587

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 4:12 pm  
EXIT: 24/04/2024 4:32 pm

VEHICLE #: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 38430 kg Scale In  
TARE 19880 kg Scale Out  
NET 18550 kg

Qty Unit Description  
18.55 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611587

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 4:12 pm  
EXIT: 24/04/2024 4:32 pm

VEHICLE: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 38430 kg k Scale In  
TARE 19880 kg Scale Out  
NET 18550 kg

QTY Unit Description  
18.55 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611589

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 4:33 pm  
EXIT: 24/04/2024 4:45 pm

VEHICLE #: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 27060 kg Scale In  
TARE 15040 kg Scale Out  
NET 12020 kg

Qty Unit Description  
12.02 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611589

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 4:33 pm  
EXIT: 24/04/2024 4:45 pm

VEHICLE: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 27060 kg k Scale In  
TARE 15040 kg Scale Out  
NET 12020 kg

QTY Unit Description  
12.02 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611579

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 3:38 pm  
EXIT: 24/04/2024 4:04 pm

VEHICLE #: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 44610 kg Scale In  
TARE 20840 kg Scale Out  
NET 23770 kg

Qty Unit Description  
23.77 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611579

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 24/04/2024 3:38 pm  
EXIT: 24/04/2024 4:04 pm

VEHICLE: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 44610 kg k Scale In  
TARE 20840 kg Scale Out  
NET 23770 kg

QTY Unit Description  
23.77 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611605

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 7:51 am  
EXIT: 25/04/2024 8:10 am

VEHICLE #: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE: MM24

GROSS 42460 kg Scale In  
TARE 21250 kg Scale Out  
NET 21210 kg

Qty Unit Description  
21.21 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611605

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 7:51 am  
EXIT: 25/04/2024 8:10 am

VEHICLE: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE: MM24

GROSS 42460 kg k Scale In  
TARE 21250 kg Scale Out  
NET 21210 kg

QTY Unit Description  
21.21 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611645

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 9:39 am  
EXIT: 25/04/2024 9:59 am

VEHICLE #: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 48490 kg Scale In  
TARE 20840 kg Scale Out  
NET 27650 kg

Qty Unit Description  
27.65 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611645

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 9:39 am  
EXIT: 25/04/2024 9:59 am

VEHICLE: BC 82040  
CONTAINER:  
LICENSE: BC 82040  
REFERENCE:

GROSS 48490 kg k Scale In  
TARE 20840 kg Scale Out  
NET 27650 kg

QTY Unit Description  
27.65 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:





TICKET#: 611655

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 10:31 am  
EXIT: 25/04/2024 10:43 am

VEHICLE #: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 30930 kg Scale In  
TARE 15240 kg Scale Out  
NET 15690 kg

Qty Unit Description  
15.69 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611655

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 10:31 am  
EXIT: 25/04/2024 10:43 am

VEHICLE: BE 21121  
CONTAINER:  
LICENSE: BE 21121  
REFERENCE:

GROSS 30930 kg k Scale In  
TARE 15240 kg Scale Out  
NET 15690 kg

QTY Unit Description  
15.69 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611662

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 10:45 am  
EXIT: 25/04/2024 11:07 am

VEHICLE #: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 47590 kg Scale In  
TARE 21180 kg Scale Out  
NET 26410 kg

Qty Unit Description  
26.41 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611662

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 10:45 am  
EXIT: 25/04/2024 11:07 am

VEHICLE: BC 82042  
CONTAINER:  
LICENSE: BC 82042  
REFERENCE:

GROSS 47590 kg k Scale In  
TARE 21180 kg Scale Out  
NET 26410 kg

QTY Unit Description  
26.41 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611669

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 11:08 am  
EXIT: 25/04/2024 11:29 am

VEHICLE #: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 47340 kg Scale In  
TARE 19940 kg Scale Out  
NET 27400 kg

Qty Unit Description  
27.40 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611669

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 11:08 am  
EXIT: 25/04/2024 11:29 am

VEHICLE: BL 89653  
CONTAINER:  
LICENSE: BL 89653  
REFERENCE:

GROSS 47340 kg k Scale In  
TARE 19940 kg Scale Out  
NET 27400 kg

QTY Unit Description  
27.40 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611930

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 3:09 pm  
EXIT: 25/04/2024 3:09 pm

VEHICLE #: PA34310  
CONTAINER:  
LICENSE: PA34310  
REFERENCE: GFL MANUAL #29834

GROSS 66370 kg Manual  
TARE 19970 kg Manual  
NET 46400 kg

Qty Unit Description  
46.40 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:



TICKET#: 611930

TYPE INVOICE

GFL Environmental Inc.  
17125 Lafleche Road  
MOOSE CREEK, ON K0C 1W0  
(613) 538-2776 HST - 84188 4893 RT0001

001789 - Hawkins Properties - 595831 Ontario Inc.  
1220 Potter Drive  
Manotick, ON K4M 1C8  
MM24

ATTENDENT: sabjoa  
ENTER: 25/04/2024 3:09 pm  
EXIT: 25/04/2024 3:09 pm

VEHICLE: PA34310  
CONTAINER:  
LICENSE: PA34310  
REFERENCE: GFL MANUAL #29834

GROSS 66370 kg k Manual  
TARE 19970 kg Manual  
NET 46400 kg

QTY Unit Description  
46.40 MT CONTAMINATED SOIL

Have A Nice Day!  
\*\*ALL SALES ARE FINAL\*\*

SIGNATURE:

**ATTACHMENT D**  
**TEST PIT LOGS**

**TP101**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 - 4.0	<b>SILTY CLAY TO CLAYEY SILT</b> Trace sand Brown, moist	None	<5 ppm	TP101-1	1.0	
		None	<5 ppm	TP102-2	2.0	
3.0	Grey	None	<5 ppm	TP101-3	3.0	
		None	<5 ppm	TP101-4	4.0	BTEX, PHCs
4.0	END OF TEST PIT					

**TP102**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 - 4.0	<b>SILTY CLAY TO CLAYEY SILT</b> Grey, moist	Slight	220 ppm	TP102-1	1.0	
		Moderate	510 ppm	TP102-2	2.0	
		Moderate	310 ppm	TP102-3	3.0	
4.0	Brown	Slight	410 ppm	TP102-4	4.0	
		None	<5 ppm	TP102-5	5.0	
		None	<5 ppm	TP102-6	5.5	
5.5	END OF TEST PIT					

**TP103**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	None	<5 ppm	TP103-1	0.5	
0.5 - 4.0	<b>SILTY CLAY TO CLAYEY SILT</b> Grey, moist	None	<5 ppm	TP103-2	1.0	
		None	<5 ppm	TP103-3	2.0	
		Slight	<5 ppm	TP103-4	3.0	BTEX, PHCs
		None	<5 ppm	TP103-5	3.5	
		None	<5 ppm	TP103-6	4.0	
4.0	END OF TEST PIT					

**TP104**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 – 3.0	<b>SILTY CLAY TO CLAYEY SILT</b> Trace sand Grey, moist	None	<5 ppm	TP104-1	1.0	
		None	75 ppm	TP104-2	2.0	BTEX, PHCs
3.0	Wet	None	50 ppm	TP104-3	3.0	
		None	<5 ppm	TP104-4	4.0	
4.0	END OF TEST PIT					

**TP105**

Date: 12-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 – 3.0	<b>SILTY CLAY TO CLAYEY SILT</b> Brown, moist	None	<5 ppm	TP105-1	1.0	
		None	<5 ppm	TP105-2	2.0	
2.5	Grey, trace sand	None	<5 ppm	TP105-3	2.5	
		None	<5 ppm	TP105-4	3.0	BTEX, PHCs
3.0	END OF TEST PIT					

**TP106**

Date: 15-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 – 5.0	<b>SILTY CLAY TO CLAYEY SILT</b> Trace sand Brown, moist	None	<5 ppm	TP106-1	1.0	
		None	<5 ppm	TP106-2	2.0	
		None	<5 ppm	TP106-3	3.0	
		None	<5 ppm	TP106-4	4.0	
		None	<5 ppm	TP106-5	5.0	
5.0	END OF TEST PIT					

**TP107**

Date: 15-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 - 5.0	<b>SILTY CLAY TO CLAYEY SILT</b> Grey, moist	None	<5 ppm	TP107-1	1.0	
		None	<5 ppm	TP107-2	2.0	
		None	25 ppm	TP107-3	3.0	
		None	<5 ppm	TP107-4	4.0	
		None	<5 ppm	TP107-5	5.0	
5.0	END OF TEST PIT					

**TP108**

Date: 15-APR-2024

Stratigraphy		Sample Data				
Depth (m)	Soil Description	Odours	CSV	I.D.	Depth (m)	Lab Analysis/ Comments
0.0 – 0.5	<b>SAND AND GRAVEL (FILL)</b> Brown, moist	-	-	-	-	
0.5 - 5.0	<b>SILTY CLAY TO CLAYEY SILT</b> Trace sand Brown, moist	None	<5 ppm	TP108-1	1.0	
		None	15 ppm	TP108-2	2.0	BTEX, PHCs
		None	<5 ppm	TP108-3	3.0	
		None	<5 ppm	TP108-4	4.0	
		None	<5 ppm	TP108-5	5.0	
5.0	END OF TEST PIT					



**ATTACHMENT E**  
**LABORATORY CERTIFICATES OF ANALYSIS**

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142310  
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist  
DATE REPORTED: Apr 24, 2024  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142310

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-24

SAMPLE DESCRIPTION: CS129  
 SAMPLE TYPE: Soil  
 DATE SAMPLED: 2024-04-23  
 10:00  
 5814724

Parameter	Unit	G / S	RDL	5814724
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	250	10	<10
F3 (C16 to C34)	µg/g	2500	50	<50
F4 (C34 to C50)	µg/g	6600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA
Moisture Content	%		0.1	28.9
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		81
Terphenyl	%	60-140		91

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 24Z142310

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-24

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

5814724 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z142310  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 24, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5809334		<0.02	<0.02	NA	< 0.02	100%	60%	140%	112%	60%	140%	90%	60%	140%
Toluene	5809334		<0.05	<0.05	NA	< 0.05	80%	60%	140%	99%	60%	140%	88%	60%	140%
Ethylbenzene	5809334		<0.05	<0.05	NA	< 0.05	88%	60%	140%	109%	60%	140%	88%	60%	140%
m & p-Xylene	5809334		<0.05	<0.05	NA	< 0.05	106%	60%	140%	98%	60%	140%	93%	60%	140%
o-Xylene	5809334		<0.05	<0.05	NA	< 0.05	108%	60%	140%	107%	60%	140%	96%	60%	140%
F1 (C6 to C10)	5809334		<5	<5	NA	< 5	103%	60%	140%	106%	60%	140%	93%	60%	140%
F2 (C10 to C16)	5807322		< 10	< 10	NA	< 10	106%	60%	140%	116%	60%	140%	121%	60%	140%
F3 (C16 to C34)	5807322		< 50	< 50	NA	< 50	104%	60%	140%	124%	60%	140%	115%	60%	140%
F4 (C34 to C50)	5807322		< 50	< 50	NA	< 50	66%	60%	140%	82%	60%	140%	106%	60%	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: \_\_\_\_\_





## Time Markers

AGAT WORK ORDER: 24Z142310

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5814724	CS129	Soil	23-APR-2024	23-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	24-APR-2024	24-APR-2024	VB
Toluene	24-APR-2024	24-APR-2024	VB
Ethylbenzene	24-APR-2024	24-APR-2024	VB
m & p-Xylene	24-APR-2024	24-APR-2024	VB
o-Xylene	24-APR-2024	24-APR-2024	VB
Xylenes (Total)	24-APR-2024	24-APR-2024	SYS
F1 (C6 to C10)	24-APR-2024	24-APR-2024	VB
F1 (C6 to C10) minus BTEX	24-APR-2024	24-APR-2024	SYS
Toluene-d8	24-APR-2024	24-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	SS
F3 (C16 to C34)	24-APR-2024	24-APR-2024	SS
F4 (C34 to C50)	24-APR-2024	24-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	24-APR-2024	24-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	SS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142310

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Have feedback?  
Scan here for a quick survey!



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

Laboratory Use Only **242142312**

Work Order #: **242142310**

Cooler Quantity: one - 100se100  
Arrival Temperatures: 4.0 | 3.9 | 3.8  
Depot Temperatures: 4.0 | 4.1 | 4.2  
Custody Seal Intact:  Yes  No  N/A  
Notes: bagged up

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to: \_\_\_\_\_  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
Please note: If quotation number is not provided, client will be billed full price for analysis.

**Invoice Information:** Bill To Same: Yes  No   
Company: Terrapex  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm

Table 2 Indicate One  Ind/Com  Res/Park  Agriculture  
Table Indicate One  Ind/Com  Res/Park  Agriculture

Soil Texture (Check One)  Coarse  Fine  Regulation 558  CCME

Region \_\_\_\_\_  
Prov. Water Quality Objectives (PWQO)  Other \_\_\_\_\_  
Indicate One \_\_\_\_\_

### Is this submission for a Record of Site Condition (RSC)?

Yes  No

### Report Guideline on Certificate of Analysis

Yes  No

### Legal Sample

### Sample Matrix Legend

**GW** Ground Water **SD** Sediment  
**O** Oil **SW** Surface Water  
**P** Paint **R** Rock/Shale  
**S** Soil

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	Field Filtered - Metals, Hg, CrVI, DOC										Potentially Hazardous or High Concentration (Y/N)								
							0. Reg 153		0. Reg 406		0. Reg 558		0. Reg 406 Characterization Package		0. Reg 406 SPLP Rainwater Leach			Landfill Disposal Characterization TCLP:							
							Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	BTEX, F1-F4 PHCS	VOC	PAHs	PCBs, Aroclors <input type="checkbox"/>	pH, Metals, BTEX, F1-F4	EC, SAR	msSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> DOC	TCLP: <input type="checkbox"/> M&M <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> Bglp <input type="checkbox"/> PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide								
1. <u>CS132</u>	<u>Apr 23/24</u>	<u>10:30 AM</u>	<u>2</u>	<u>S</u>	<u>Reg TAT</u>	<u>2220</u>																			
2. <u>CS129</u>	<u>5/1</u>	<u>10:00 AM</u>	<u>2</u>	<u>S</u>	<u>1-Day TAT</u>	<u>2220</u>			<u>X</u>																
3. <u>methanol Blank</u>	<u>5/1</u>	<u>13:00 PM</u>	<u>2</u>	<u>-</u>	<u>Reg TAT</u>	<u>2220</u>																			
4. <u>CS144</u>	<u>5/1</u>	<u>11:00 AM</u>	<u>2</u>	<u>S</u>	<u>Reg TAT</u>	<u>2220</u>			<u>X</u>																
5.																									
6.																									
7.																									
8.																									
9.																									
10.																									
11.																									

Samples Relinquished By (Print Name and Sign): <u>A. Harris</u>	Date: <u>23/4/24</u> Time: <u>2:20</u>	Samples Received By (Print Name and Sign): <u>C. Griffiths</u>	Date: <u>24/4/24</u> Time: <u>14h40</u>
Samples Relinquished By (Print Name and Sign): <u>G. to P. Boonstra</u>	Date: <u>04/23/24</u> Time: <u>15h00</u>	Samples Received By (Print Name and Sign): <u>P. Boonstra</u>	Date: <u>Apr 24</u> Time: <u>8:50 AM</u>

### Turnaround Time (TAT) Required:

Regular TAT  5 to 7 Business Days  
Rush TAT (Rush Surcharges Apply) See below  
 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 CSR



CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142312  
TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager  
DATE REPORTED: Apr 30, 2024  
PAGES (INCLUDING COVER): 9  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-30

Parameter	Unit	SAMPLE DESCRIPTION:		CS132	CS144
		G / S	RDL	5814759	5814765
Benzene	µg/g	0.4	0.02	<0.02	<0.02
Toluene	µg/g	9	0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA
Moisture Content	%		0.1	32.6	21.7
Surrogate	Unit	Acceptable Limits			
Toluene-d8	% Recovery	60-140		96	92
Terphenyl	%	60-140		70	74

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-30

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

5814759-5814765 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*

# Certificate of Analysis

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-23

DATE REPORTED: 2024-04-30

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-23  
 13:00

Parameter	Unit	G / S	RDL	5814764
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5814764 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z142312  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 30, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5816966		<0.02	<0.02	NA	< 0.02	82%	60%	140%	89%	60%	140%	87%	60%	140%
Toluene	5816966		<0.05	<0.05	NA	< 0.05	93%	60%	140%	105%	60%	140%	105%	60%	140%
Ethylbenzene	5816966		<0.05	<0.05	NA	< 0.05	106%	60%	140%	88%	60%	140%	82%	60%	140%
m & p-Xylene	5816966		<0.05	<0.05	NA	< 0.05	98%	60%	140%	89%	60%	140%	84%	60%	140%
o-Xylene	5816966		<0.05	<0.05	NA	< 0.05	103%	60%	140%	88%	60%	140%	84%	60%	140%
F1 (C6 to C10)	5816966		<5	<5	NA	< 5	96%	60%	140%	96%	60%	140%	98%	60%	140%
F2 (C10 to C16)	5822848		< 10	< 10	NA	< 10	111%	60%	140%	87%	60%	140%	91%	60%	140%
F3 (C16 to C34)	5822848		< 50	< 50	NA	< 50	110%	60%	140%	112%	60%	140%	117%	60%	140%
F4 (C34 to C50)	5822848		< 50	< 50	NA	< 50	85%	60%	140%	78%	60%	140%	99%	60%	140%

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)															
Benzene	5816966		<0.02	<0.02	NA	< 0.02	82%	60%	140%	89%	60%	140%	87%	60%	140%
Toluene	5816966		<0.05	<0.05	NA	< 0.05	93%	60%	140%	105%	60%	140%	105%	60%	140%
Ethylbenzene	5816966		<0.05	<0.05	NA	< 0.05	106%	60%	140%	88%	60%	140%	82%	60%	140%
m & p-Xylene	5816966		<0.05	<0.05	NA	< 0.05	98%	60%	140%	89%	60%	140%	84%	60%	140%
o-Xylene	5816966		<0.05	<0.05	NA	< 0.05	103%	60%	140%	88%	60%	140%	84%	60%	140%
F1 (C6 to C10)	5816966		<5	<5	NA	< 5	96%	60%	140%	96%	60%	140%	98%	60%	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: R. Chakraborty

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.



## Time Markers

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5814759	CS132	Soil	23-APR-2024	23-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	29-APR-2024	29-APR-2024	SS
F3 (C16 to C34)	29-APR-2024	29-APR-2024	SS
F4 (C34 to C50)	29-APR-2024	29-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	26-APR-2024	26-APR-2024	PD
Terphenyl	29-APR-2024	29-APR-2024	SS

5814764	Methanol Blank	MeOH	23-APR-2024	23-APR-2024
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O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB

5814765	CS144	Soil	23-APR-2024	23-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB



## Time Markers

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5814765	CS144	Soil	23-APR-2024	23-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	29-APR-2024	29-APR-2024	SS
F3 (C16 to C34)	29-APR-2024	29-APR-2024	SS
F4 (C34 to C50)	29-APR-2024	29-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	26-APR-2024	26-APR-2024	PD
Terphenyl	29-APR-2024	29-APR-2024	SS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142312

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID





## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to:  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
Please note: if quotation number is not provided, client will be billed full price for analysis.

**Invoice Information:**  
Company: Terrapex Bill To Same: Yes  No   
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

**Regulatory Requirements:**  
(Please check all applicable boxes)

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm

Table 2 Indicate One  Ind/Com  Res/Park  Agriculture  
Soil Texture (Check One)  Coarse  Fine  
 CCME

Region: \_\_\_\_\_  
Prov. Water Quality Objectives (PWQO)  Other \_\_\_\_\_

Is this submission for a Record of Site Condition (RSC)?  Yes  No

Report Guideline on Certificate of Analysis  Yes  No

**Turnaround Time (TAT) Required:**  
Regular TAT  5 to 7 Business Days See below  
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 CSR

**Legal Sample**

**Sample Matrix Legend**  
GW Ground Water SD Sediment  
O Oil SW Surface Water  
P Paint R Rock/Shale  
S Soil

Field Filtered - Metals, Hg, CrVI, DOC	0, Reg 153	0, Reg 406	0, Reg 558	Potentially Hazardous or High Concentration (Y/N)
Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	Regulation 406 Characterization Package pH, Metals, BTEX, FL-F4	Regulation 406 SPLP Rainwater Leach mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> OC	
	BTEX, FL-F4 PHCs	EC, SAR	Landfill Disposal Characterization TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNS <input type="checkbox"/> BQEP <input type="checkbox"/> PCBs	
	VOC	PCBs: Aroclors <input type="checkbox"/>	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	
	PAHs			

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/Special Instructions	Y/N	Metals & Inorganics	BTEX, FL-F4 PHCs	VOC	PAHs	PCBs: Aroclors	Regulation 406 Characterization Package	Regulation 406 SPLP Rainwater Leach	Landfill Disposal Characterization TCLP	Corrosivity: Moisture Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. <u>CS132</u>	<u>Apr 23/24</u>	<u>10:30 AM</u>	<u>2</u>	<u>S</u>	<u>Reg TAT</u>	<u>2</u>		<u>X</u>								
2. <u>CS129</u>	<u>15/1</u>	<u>10:00 AM</u>	<u>2</u>	<u>S</u>	<u>1-Day TAT</u>	<u>2</u>		<u>X</u>								
3. <u>methanedi Blank</u>	<u>15/1</u>	<u>13:00 AM</u>	<u>2</u>	<u>-</u>	<u>Reg TAT</u>	<u>2</u>										
4. <u>CS144</u>	<u>15/1</u>	<u>11:00 AM</u>	<u>2</u>	<u>S</u>	<u>Reg TAT</u>	<u>2</u>		<u>X</u>								
5.		AM PM														
6.		AM PM														
7.		AM PM														
8.		AM PM														
9.		AM PM														
10.		AM PM														
11.		AM PM														

Samples Relinquished By (Print Name and Sign): Ali Havis Date: 23/4/24 Time: 2:20

Samples Relinquished By (Print Name and Sign): Ali Havis Date: 24/23/24 Time: 1:50

Samples Received By (Print Name and Sign): C. Griffiths Date: Apr 23/24 Time: 14h40

Samples Received By (Print Name and Sign): Ali Havis Date: Nov 24 Time: 8:50

Page 1 of 1

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142833  
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist  
DATE REPORTED: Apr 25, 2024  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142833

PROJECT: CO884.03

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: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-04-25

SAMPLE DESCRIPTION: CS156  
 SAMPLE TYPE: Soil  
 DATE SAMPLED: 2024-04-23  
 14:00  
 5817862

Parameter	Unit	G / S	RDL	5817862
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	250	10	<10
F3 (C16 to C34)	µg/g	2500	50	<50
F4 (C34 to C50)	µg/g	6600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA
Moisture Content	%		0.1	15.8
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		78
Terphenyl	%	60-140		96

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 24Z142833

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-04-25

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

5817862 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z142833  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: Eric Boonstra

### Trace Organics Analysis

RPT Date: Apr 25, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5812087		<0.02	<0.02	NA	< 0.02	82%	60%	140%	109%	60%	140%	91%	60%	140%
Toluene	5812087		<0.05	<0.05	NA	< 0.05	86%	60%	140%	84%	60%	140%	93%	60%	140%
Ethylbenzene	5812087		<0.05	<0.05	NA	< 0.05	90%	60%	140%	110%	60%	140%	104%	60%	140%
m & p-Xylene	5812087		<0.05	<0.05	NA	< 0.05	95%	60%	140%	99%	60%	140%	92%	60%	140%
o-Xylene	5812087		<0.05	<0.05	NA	< 0.05	94%	60%	140%	104%	60%	140%	93%	60%	140%
F1 (C6 to C10)	5812087		<5	<5	NA	< 5	94%	60%	140%	91%	60%	140%	93%	60%	140%
F2 (C10 to C16)	5800315		< 10	< 10	NA	< 10	118%	60%	140%	103%	60%	140%	119%	60%	140%
F3 (C16 to C34)	5800315		< 50	< 50	NA	< 50	114%	60%	140%	126%	60%	140%	125%	60%	140%
F4 (C34 to C50)	5800315		< 50	< 50	NA	< 50	66%	60%	140%	112%	60%	140%	95%	60%	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: \_\_\_\_\_





## Time Markers

AGAT WORK ORDER: 24Z142833

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5817862	CS156	Soil	23-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	25-APR-2024	25-APR-2024	VB
Toluene	25-APR-2024	25-APR-2024	VB
Ethylbenzene	25-APR-2024	25-APR-2024	VB
m & p-Xylene	25-APR-2024	25-APR-2024	VB
o-Xylene	25-APR-2024	25-APR-2024	VB
Xylenes (Total)	25-APR-2024	25-APR-2024	SYS
F1 (C6 to C10)	25-APR-2024	25-APR-2024	VB
F1 (C6 to C10) minus BTEX	25-APR-2024	25-APR-2024	SYS
Toluene-d8	25-APR-2024	25-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	SS
F3 (C16 to C34)	24-APR-2024	24-APR-2024	SS
F4 (C34 to C50)	24-APR-2024	24-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	24-APR-2024	24-APR-2024	SS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142833

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Have feedback?  
Scan here for a quick survey!



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

Laboratory Use Only 242142834

Work Order #: 242142833

Cooler Quantity: one - bagged ice  
Arrival Temperatures: 5.4 16.0 6.1  
2-111-111-5

Custody Seal Intact:  Yes  No  N/A

Notes:

## 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 Limited  
Contact: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8R3  
Phone: 613-745-6471 Fax:  
Reports to be sent to: g.sabourin@terrapex.com  
1. Email:  
2. Email:

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  
 Sewer Use  
 Sanitary  Storm  
 Table 2 Indicate One  
 Ind/Com  
 Res/Park  
 Agriculture  
 Regulation 558  
 CCME  
 Other  
 Soil Texture (Check One)  
 Coarse  
 Fine  
 Indicate One

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

Report Guideline on Certificate of Analysis  
 Yes  No

### Project Information:

Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: Eric Boonstra  
AGAT Quote #: 17116440659 - 2024 SO PO:  
Please note: If quotation number is not provided, client will be billed full price for analysis.

### Invoice Information:

Bill To Same: Yes  No

Company:  
Contact:  
Address:  
Email:

### Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	PCBs: Aroclors	
								Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB		
								BTEX, F1-F4 PHCs		
								VOC		
								PAHs		
								PCBs		
								PCBs: Aroclors <input type="checkbox"/>		
								Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> Aroclors <input type="checkbox"/> Biop <input type="checkbox"/> PCBs		
								Regulation 406 SPLP Rainwater Leach SPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs		
								Regulation 406 Characterization Package pH, IC/PMS Metals, BTEX, F1-F4		
								Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide		
1. CS156	Apr 23	14:00 AM	2	Soil	1-Day TAT	-		X		
2. CS1067	Apr 23	14:00 AM	2	Soil	Reg TAT	-		X		
3. CS167	Apr 23	14:00 AM	2	Soil	Reg TAT	-		X		
4. SP101	Apr 23	14:50 AM	2	Soil	Reg TAT	-		X		
5. SP103	Apr 23	13:00 AM	2	Soil	Reg TAT	-		X		
6. SP105	Apr 23	15:15 AM	2	Soil	Reg TAT	-		X		
7. Methanol Blank	-	16:00 AM	1	←	Reg TAT	-				X
8.		AM								
9.		PM								
10.		PM								
11.		PM								

Samples Relinquished By (Print Name and Sign) Greg Sabourin	Date Apr 21/2024	Time	Samples Received By (Print Name and Sign) C. Gushkin	Date 04/24/24	Time 14:15
Samples Relinquished By (Print Name and Sign) C. to Duro	Date 04/24/24	Time 15:00	Samples Received By (Print Name and Sign) Duro	Date Apr 28	Time 8:24:01
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

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



CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142836  
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer  
DATE REPORTED: Apr 25, 2024  
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.
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- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142836

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-04-25

SAMPLE DESCRIPTION: CS191  
 SAMPLE TYPE: Soil  
 DATE SAMPLED: 2024-04-24  
 14:00  
 5817851

Parameter	Unit	G / S	RDL	5817851
Benzene	µg/g		0.02	<0.02
Toluene	µg/g		0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5
F2 (C10 to C16)	µg/g		10	<10
F3 (C16 to C34)	µg/g		50	<50
F4 (C34 to C50)	µg/g		50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA
Moisture Content	%		0.1	31.0
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		84
Terphenyl	%	60-140		72

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 24Z142836

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-04-25

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5817851

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

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street


AGAT WORK ORDER: 24Z142836  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: Eric Boonstra

### Trace Organics Analysis

RPT Date: Apr 25, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5814558		<0.02	<0.02	NA	< 0.02	101%	60%	140%	88%	60%	140%	79%	60%	140%
Toluene	5814558		<0.05	<0.05	NA	< 0.05	116%	60%	140%	106%	60%	140%	106%	60%	140%
Ethylbenzene	5814558		<0.05	<0.05	NA	< 0.05	106%	60%	140%	97%	60%	140%	87%	60%	140%
m & p-Xylene	5814558		<0.05	<0.05	NA	< 0.05	95%	60%	140%	98%	60%	140%	88%	60%	140%
o-Xylene	5814558		<0.05	<0.05	NA	< 0.05	92%	60%	140%	100%	60%	140%	91%	60%	140%
F1 (C6 to C10)	5814558		<5	<5	NA	< 5	95%	60%	140%	98%	60%	140%	90%	60%	140%
F2 (C10 to C16)	5812041		< 10	< 10	NA	< 10	114%	60%	140%	76%	60%	140%	101%	60%	140%
F3 (C16 to C34)	5812041		< 50	< 50	NA	< 50	116%	60%	140%	122%	60%	140%	118%	60%	140%
F4 (C34 to C50)	5812041		< 50	< 50	NA	< 50	71%	60%	140%	92%	60%	140%	77%	60%	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: \_\_\_\_\_





## Time Markers

AGAT WORK ORDER: 24Z142836

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5817851	CS191	Soil	24-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	25-APR-2024	25-APR-2024	VB
Toluene	25-APR-2024	25-APR-2024	VB
Ethylbenzene	25-APR-2024	25-APR-2024	VB
m & p-Xylene	25-APR-2024	25-APR-2024	VB
o-Xylene	25-APR-2024	25-APR-2024	VB
Xylenes (Total)	25-APR-2024	25-APR-2024	SYS
F1 (C6 to C10)	25-APR-2024	25-APR-2024	VB
F1 (C6 to C10) minus BTEX	25-APR-2024	25-APR-2024	SYS
Toluene-d8	25-APR-2024	25-APR-2024	VB
F2 (C10 to C16)	25-APR-2024	25-APR-2024	CA
F3 (C16 to C34)	25-APR-2024	25-APR-2024	CA
F4 (C34 to C50)	25-APR-2024	25-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	25-APR-2024	25-APR-2024	PD
Terphenyl	25-APR-2024	25-APR-2024	CA

## Method Summary

 CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

 AGAT WORK ORDER: 24Z142836  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: Eric Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Have feedback?  
Scan here for a quick survey!



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 Limited  
Contact: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8R3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to: g.sabourin@terrapex.com  
1. Email: \_\_\_\_\_  
2. Email: \_\_\_\_\_

### Project Information:

Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: Eric Boonstra  
AGAT Quote #: 17116440659 - 2024 SO PO: \_\_\_\_\_  
*Please note: If quotation number is not provided, client will be billed full price for analysis*

### Invoice Information:

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: \_\_\_\_\_  
Bill To Same: Yes  No

### Regulatory Requirements:

(Please check all applicable boxes)

- Regulation 153/04  Regulation 406  
 Ind/Com  Res/Park  Agriculture  
 Sewer Use  Sanitary  Storm  
 Regulation 558  CCME  
 Coarse  Fine  
 Other  
 Prov. Water Quality Objectives (PWQO)  
 Region \_\_\_\_\_  
 Indicate One

Is this submission for a Record of Site Condition?

Yes  No

Report Guideline on Certificate of Analysis

Yes  No

### Sample Matrix Legend

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

### Laboratory Use Only

Work Order #: 242142836  
Cooler Quantity: One - loose ice  
Arrival Temperatures: 4.3 | 11.6 | 11.9  
2.1 | 1.1 | 1.5  
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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	O. Reg 153	O. Reg 406	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	Landfill Disposal Characterization TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> AENS <input type="checkbox"/> Bt/Pl <input type="checkbox"/> PCBs	
								Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	Regulation 406 SPLP Rainwater Leach	
								BTEX, F1-F4 PHCS	SPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs	
								VOC	Regulation 406 Characterization Package	
								PAHs	pH, ICP/MS Metals, BTEX, F1-F4	
								PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	
								PCBs: Aroclors <input type="checkbox"/>		
1. CS191	Apr 24-24	1:30 PM	2	Soil	1-Day TAT	-				
2.		AM PM								
3.		AM PM								
4.		AM PM								
5.		AM PM								
6.		AM PM								
7.		AM PM								
8.		AM PM								
9.		AM PM								
10.		AM PM								
11.		AM PM								

Samples Relinquished By (Print Name and Sign) SRCE	Date 24/4/24	Time 14:30	Samples Received By (Print Name and Sign) C. Crispino	Date 04/24/24	Time 14:55
Samples Relinquished By (Print Name and Sign) C. TO Puro	Date 04/24/24	Time 15:00	Samples Received By (Print Name and Sign) T. K. K.	Date 04/25	Time 8:45 AM
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z140682  
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist  
DATE REPORTED: Apr 25, 2024  
PAGES (INCLUDING COVER): 10  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.





## Certificate of Analysis

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-18

DATE REPORTED: 2024-04-25

Parameter	Unit	SAMPLE DESCRIPTION:		CS104	CS1004	CS113	CS125
		G / S	RDL	Soil	Soil	Soil	Soil
DATE SAMPLED:		2024-04-18	2024-04-18	2024-04-18	2024-04-18	2024-04-18	2024-04-18
		09:30	09:30	10:00	10:00	10:20	10:20
		5806207	5806208	5806209	5806210		
Benzene	µg/g	0.4	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	9	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA	NA
Moisture Content	%		0.1	25.8	26.6	9.7	23.6
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	60-140		102	96	112	105
Terphenyl	%	60-140		82	86	83	79

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-18

DATE REPORTED: 2024-04-25

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

5806207-5806210 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

# Certificate of Analysis

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

 5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-18

DATE REPORTED: 2024-04-25

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

 DATE SAMPLED: 2024-04-18  
 10:30

Parameter	Unit	G / S	RDL	5806212
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		107

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5806212

A small amount of the methanol extract was diluted in water and the purge &amp; trap GC/MS/FID analysis was performed.

Xylenes total is a calculated parameter. The calculated value is the sum of m&amp;p-Xylene + o-Xylene.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z140682  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 25, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5809651		<0.02	<0.02	NA	< 0.02	108%	60%	140%	103%	60%	140%	102%	60%	140%
Toluene	5809651		<0.05	<0.05	NA	< 0.05	103%	60%	140%	109%	60%	140%	106%	60%	140%
Ethylbenzene	5809651		<0.05	<0.05	NA	< 0.05	102%	60%	140%	88%	60%	140%	108%	60%	140%
m & p-Xylene	5809651		<0.05	<0.05	NA	< 0.05	110%	60%	140%	105%	60%	140%	109%	60%	140%
o-Xylene	5809651		<0.05	<0.05	NA	< 0.05	98%	60%	140%	105%	60%	140%	102%	60%	140%
F1 (C6 to C10)	5809651		<5	<5	NA	< 5	95%	60%	140%	107%	60%	140%	89%	60%	140%
F2 (C10 to C16)	5809304		<10	<10	NA	< 10	98%	60%	140%	104%	60%	140%	99%	60%	140%
F3 (C16 to C34)	5809304		77	95	NA	< 50	103%	60%	140%	108%	60%	140%	111%	60%	140%
F4 (C34 to C50)	5809304		55	74	NA	< 50	93%	60%	140%	100%	60%	140%	102%	60%	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: \_\_\_\_\_



# Time Markers

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5806207	CS104	Soil	18-APR-2024	18-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	CA
F3 (C16 to C34)	24-APR-2024	24-APR-2024	CA
F4 (C34 to C50)	24-APR-2024	24-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	23-APR-2024	23-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	CA

5806208	CS1004	Soil	18-APR-2024	18-APR-2024
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**O. Reg. 153(511) - PHCs F1 - F4 (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	CA
F3 (C16 to C34)	24-APR-2024	24-APR-2024	CA
F4 (C34 to C50)	24-APR-2024	24-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	23-APR-2024	23-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	CA

5806209	CS113	Soil	18-APR-2024	18-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5806209	CS113	Soil	18-APR-2024	18-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	CA
F3 (C16 to C34)	24-APR-2024	24-APR-2024	CA
F4 (C34 to C50)	24-APR-2024	24-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	23-APR-2024	23-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	CA

5806210	CS125	Soil	18-APR-2024	18-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB
F2 (C10 to C16)	24-APR-2024	24-APR-2024	CA
F3 (C16 to C34)	24-APR-2024	24-APR-2024	CA
F4 (C34 to C50)	24-APR-2024	24-APR-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	23-APR-2024	23-APR-2024	PD
Terphenyl	24-APR-2024	24-APR-2024	CA

5806212	Methanol Blank	MeOH	18-APR-2024	18-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5806212	Methanol Blank	MeOH	18-APR-2024	18-APR-2024

### O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	23-APR-2024	23-APR-2024	VB
Toluene	23-APR-2024	23-APR-2024	VB
Ethylbenzene	23-APR-2024	23-APR-2024	VB
m & p-Xylene	23-APR-2024	23-APR-2024	VB
o-Xylene	23-APR-2024	23-APR-2024	VB
Xylenes (Total)	23-APR-2024	23-APR-2024	SYS
F1 (C6 to C10)	23-APR-2024	23-APR-2024	VB
F1 (C6 to C10) minus BTEX	23-APR-2024	23-APR-2024	SYS
Toluene-d8	23-APR-2024	23-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z140682

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID



Have feedback?  
Scan here for a quick survey!



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

### Laboratory Use Only

Work Order #: 247240682  
Cooler Quantity: one - loose ice  
Arrival Temperatures: 3.1 | 3.0 | 2.4  
Depot Temperatures: 3.3 | 3.2 | 3.0  
Custody Seal Intact:  Yes  No  N/A  
Notes: loose ice

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to: \_\_\_\_\_  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
*Please note: if quotation number is not provided, client will be billed full price for analysis.*

**Invoice Information:** Bill To Same: Yes  No   
Company: Terrapex  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

**Regulatory Requirements:**  
*(Please check all applicable boxes)*  
 Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm  
Table - Indicate One  
 Ind/Com  Res/Park  Agriculture  
Soil Texture (Check One)  
 Coarse  Fine  
Table - Indicate One  
 Ind/Com  Res/Park  Agriculture  
Region  
 Prov. Water Quality Objectives (PWQO)  Other  
Indicate One  
 Regulation 558  CCME

Is this submission for a Record of Site Condition (RSC)?  
 Yes  No  
Report Guideline on Certificate of Analysis  
 Yes  No

Legal Sample

**Sample Matrix Legend**  
GW Ground Water SD Sediment  
O Oil SW Surface Water  
P Paint R Rock/Shale  
S Soil

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	0. Reg 558	Potentially Hazardous or High Concentration (Y/N)	
								Metals & Inorganics Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB BTEX, F1-F4, PHCs	Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4 EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> OC Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> BqP <input type="checkbox"/> PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	
1. <u>CS104</u>	<u>Apr 18/24</u>	<u>9:30 AM</u>	<u>2</u>	<u>S</u>		<u>2</u>						
2. <u>CS1004</u>	<u>18/24</u>	<u>9:30 AM</u>	<u>2</u>	<u>S</u>		<u>2</u>						
3. <u>CS113</u>	<u>18/24</u>	<u>10:00 AM</u>	<u>2</u>	<u>S</u>		<u>2</u>						
4. <u>CS125</u>	<u>18/24</u>	<u>10:20 AM</u>	<u>2</u>	<u>S</u>		<u>2</u>						
5. <u>methanol Blank</u>	<u>18/24</u>	<u>10:30 AM</u>	<u>1</u>	<u>-</u>		<u>2</u>						
6.		AM PM										
7.		AM PM										
8.		AM PM										
9.		AM PM										
10.		AM PM										
11.		AM PM										

Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>Apr 18/24</u>	Time: <u>14:30</u>	Samples Received By (Print Name and Sign): <u>C. Gauthier</u>	Date: <u>Apr 18/24</u>	Time: <u>14:55</u>
Samples Relinquished By (Print Name and Sign): <u>C. Gauthier</u>	Date: <u>Apr 18/24</u>	Time: <u>15:00</u>	Samples Received By (Print Name and Sign): <u>T. Hank</u>	Date: <u>Apr 19</u>	Time: <u>9:10 AM</u>
Samples Relinquished By (Print Name and Sign):	Date:	Time:	Samples Received By (Print Name and Sign):	Date:	Time:

Page 1 of 1

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z142834  
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer  
DATE REPORTED: May 01, 2024  
PAGES (INCLUDING COVER): 11  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-05-01

Parameter	Unit	SAMPLE DESCRIPTION:						
		G / S	RDL	CS1067	CS167	SP101	SP103	SP105
				Soil	Soil	Soil	Soil	Soil
				2024-04-23	2024-04-23	2024-04-23	2024-04-23	2024-04-23
				14:00	14:00	14:50	15:00	15:15
				5818497	5818498	5818499	5818500	5818501
Benzene	µg/g	0.4	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	9	0.05	0.28	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	8.71	1.14	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	26.2	3.60	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	1.43	0.20	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	27.6	3.80	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	641	248	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	604	243	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	60	47	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA	NA	NA
Moisture Content	%		0.1	23.4	20.8	18.6	18.1	19.0
Surrogate	Unit	Acceptable Limits						
Toluene-d8	% Recovery	60-140	117	115	122	116	107	
Terphenyl	%	60-140	87	93	77	80	78	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: Eric Boonstra

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

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-05-01

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

5818497-5818501 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

# Certificate of Analysis

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

5835 COOPERS AVENUE  
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: Eric Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-24

DATE REPORTED: 2024-05-01

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-23  
16:00

Parameter	Unit	G / S	RDL	5818503
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	9	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		104

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5818503

A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





**Exceedance Summary**

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

5835 COOPERS AVENUE  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1Y2  
 TEL (905)712-5100  
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
5818497	CS1067	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	Ethylbenzene	µg/g	1.6	8.71
5818497	CS1067	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F1 (C6 to C10)	µg/g	65	641
5818497	CS1067	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F1 (C6 to C10) minus BTEX	µg/g	65	604
5818498	CS167	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F1 (C6 to C10)	µg/g	65	248
5818498	CS167	ON T2 S ICC MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F1 (C6 to C10) minus BTEX	µg/g	65	243

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z142834  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: Eric Boonstra

### Trace Organics Analysis

RPT Date: May 01, 2024			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) - PHCs F1 - F4 (Soil)


Benzene	5818497	5818497	<0.02	<0.02	NA	< 0.02	90%	60%	140%	95%	60%	140%	71%	60%	140%
Toluene	5818497	5818497	0.28	0.34	19.4%	< 0.05	100%	60%	140%	109%	60%	140%	111%	60%	140%
Ethylbenzene	5818497	5818497	8.71	9.72	11.0%	< 0.05	88%	60%	140%	84%	60%	140%	78%	60%	140%
m & p-Xylene	5818497	5818497	26.2	28.9	9.8%	< 0.05	89%	60%	140%	85%	60%	140%	96%	60%	140%
o-Xylene	5818497	5818497	1.43	1.59	10.6%	< 0.05	90%	60%	140%	87%	60%	140%	99%	60%	140%
F1 (C6 to C10)	5818497	5818497	641	701	8.9%	< 5	100%	60%	140%	92%	60%	140%	89%	60%	140%
F2 (C10 to C16)	5823469		<10	<10	NA	< 10	110%	60%	140%	96%	60%	140%	103%	60%	140%
F3 (C16 to C34)	5823469		<50	<50	NA	< 50	114%	60%	140%	110%	60%	140%	118%	60%	140%
F4 (C34 to C50)	5823469		<50	<50	NA	< 50	91%	60%	140%	96%	60%	140%	92%	60%	140%

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

Benzene	5818498	5818498	<0.02	<0.02	NA	< 0.02	90%	60%	140%	95%	60%	140%	71%	60%	140%
Toluene	5818498	5818498	<0.05	<0.05	NA	< 0.05	100%	60%	140%	109%	60%	140%	111%	60%	140%
Ethylbenzene	5818498	5818498	1.14	1.06	7.3%	< 0.05	88%	60%	140%	84%	60%	140%	78%	60%	140%
m & p-Xylene	5818498	5818498	3.60	3.43	4.8%	< 0.05	89%	60%	140%	85%	60%	140%	96%	60%	140%
o-Xylene	5818498	5818498	0.20	0.18	NA	< 0.05	90%	60%	140%	87%	60%	140%	99%	60%	140%
F1 (C6 to C10)	5818498	5818498	248	297	18.0%	< 5	100%	60%	140%	92%	60%	140%	89%	60%	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: \_\_\_\_\_





## Time Markers

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5818497	CS1067	Soil	23-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818498	CS167	Soil	23-APR-2024	24-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818499	SP101	Soil	23-APR-2024	24-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5818499	SP101	Soil	23-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818500	SP103	Soil	23-APR-2024	24-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818501	SP105	Soil	23-APR-2024	24-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

5835 COOPERS AVENUE  
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 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5818501	SP105	Soil	23-APR-2024	24-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB
F2 (C10 to C16)	01-MAY-2024	01-MAY-2024	CA
F3 (C16 to C34)	01-MAY-2024	01-MAY-2024	CA
F4 (C34 to C50)	01-MAY-2024	01-MAY-2024	CA
<b>Gravimetric Heavy Hydrocarbons</b>			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	01-MAY-2024	01-MAY-2024	CA

5818503	Methanol Blank	MeOH	23-APR-2024	24-APR-2024
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**O. Reg. 153(511) - PHCs F1/BTEX (MeOH)**

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	26-APR-2024	26-APR-2024	VB
Toluene	26-APR-2024	26-APR-2024	VB
Ethylbenzene	26-APR-2024	26-APR-2024	VB
m & p-Xylene	26-APR-2024	26-APR-2024	VB
o-Xylene	26-APR-2024	26-APR-2024	VB
Xylenes (Total)	26-APR-2024	26-APR-2024	SYS
F1 (C6 to C10)	26-APR-2024	26-APR-2024	VB
F1 (C6 to C10) minus BTEX	26-APR-2024	26-APR-2024	SYS
Toluene-d8	26-APR-2024	26-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z142834

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: Eric Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID

Have feedback?  
Scan here for a quick survey!



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

Laboratory Use Only **242142834**

Work Order #: **242142833**

Cooler Quantity: **one - bagged ice**

Arrival Temperatures: **5.4 | 6.0 | 6.1 | 2.1 | 1.1 | 1.5**

Custody Seal Intact:  Yes  No  N/A

Notes:

## 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 Limited  
Contact: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8R3  
Phone: 613-745-6471 Fax:  
Reports to be sent to: g.sabourin@terrapex.com  
1. Email:  
2. Email:

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm  
Table 2 Indicate One  Res/Park  Agriculture  CCME  
 Coarse  Fine  
Soil Texture (Check One)  
Is this submission for a Record of Site Condition?  Yes  No  
Report Guideline on Certificate of Analysis  Yes  No

### Project Information:

Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: Eric Boonstra  
AGAT Quote #: 17116440659 - 2024 SO PO:  
*Please note: If quotation number is not provided, client will be billed full price for analysis.*

### Invoice Information:

Bill To Same: Yes  No

Company:  
Contact:  
Address:  
Email:

### Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB BTEX, F1-F4 PHCs VOC PAHs PCBs PCBs: Aroclors <input type="checkbox"/> Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> Biop <input type="checkbox"/> PCBs Regulation 406 SPL P Rainwater Leach SPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4 Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide		
1. CS156	APR 23	14:00 AM	2	Soil	1 - Day TAT	-		X		
2. CS1067	APR 23	14:00 AM	2	Soil	Reg TAT	-		X		
3. CS167	APR 23	14:00 AM	2	Soil	Reg TAT	-		X		
4. SP101	APR 23	14:50 AM	2	Soil	Reg TAT	-		X		
5. SP103	APR 23	15:00 AM	2	Soil	Reg TAT	-		X		
6. SP105	APR 23	15:15 AM	2	Soil	Reg TAT	-		X		
7. Methanol Blank	-	16:00 AM	1	-	Reg TAT	-			X	
8.		AM								
9.		PM								
10.		PM								
11.		AM								

Samples Relinquished By (Print Name and Sign) <i>Greg Sabourin</i>	Date APR 21/2024	Time	Samples Received By (Print Name and Sign) <i>C. Crutcher</i>	Date 04/21/24	Time 14:15
Samples Relinquished By (Print Name and Sign) <i>C. Crutcher</i>	Date 04/24/24	Time 15:00	Samples Received By (Print Name and Sign) <i>Eric Boonstra</i>	Date Apr 25	Time 8:40 AM

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z143377  
TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager  
DATE REPORTED: May 01, 2024  
PAGES (INCLUDING COVER): 9  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: EB

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

DATE RECEIVED: 2024-04-25

DATE REPORTED: 2024-05-01

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	SP201	SP203	SP205
				Soil	Soil	Soil
				2024-04-25	2024-04-25	2024-04-25
				10:00	10:10	10:20
				5821262	5821265	5821266
Benzene	µg/g	0.4	0.02	<0.02	<0.02	<0.02
Toluene	µg/g	9	0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA
Moisture Content	%		0.1	7.4	8.2	13.6
Surrogate	Unit	Acceptable Limits				
Toluene-d8	% Recovery	60-140		87	89	87
Terphenyl	%	60-140		91	107	100

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: EB

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

DATE RECEIVED: 2024-04-25

DATE REPORTED: 2024-05-01

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

5821262-5821266 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: EB

### O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-25

DATE REPORTED: 2024-05-01

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-25  
10:30

Parameter	Unit	G / S	RDL	5821267
Benzene	µg/g		0.02	<0.02
Toluene	µg/g		0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5821267 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.  
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*



## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z143377  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: EB

### Trace Organics Analysis

RPT Date: May 01, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5823708		<0.02	<0.02	NA	< 0.02	103%	60%	140%	94%	60%	140%	72%	60%	140%
Toluene	5823708		<0.05	<0.05	NA	< 0.05	94%	60%	140%	103%	60%	140%	100%	60%	140%
Ethylbenzene	5823708		<0.05	<0.05	NA	< 0.05	81%	60%	140%	109%	60%	140%	74%	60%	140%
m & p-Xylene	5823708		<0.05	<0.05	NA	< 0.05	90%	60%	140%	94%	60%	140%	79%	60%	140%
o-Xylene	5823708		<0.05	<0.05	NA	< 0.05	89%	60%	140%	96%	60%	140%	81%	60%	140%
F1 (C6 to C10)	5823708		<5	<5	NA	< 5	98%	60%	140%	92%	60%	140%	96%	60%	140%
F2 (C10 to C16)	5821262	5821262	< 10	< 10	NA	< 10	126%	60%	140%	83%	60%	140%	114%	60%	140%
F3 (C16 to C34)	5821262	5821262	< 50	< 50	NA	< 50	120%	60%	140%	114%	60%	140%	117%	60%	140%
F4 (C34 to C50)	5821262	5821262	< 50	< 50	NA	< 50	73%	60%	140%	70%	60%	140%	95%	60%	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: R. Chakraborty

Results relate only to the items tested. Results apply to samples as received.



## Time Markers

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5821262	SP201	Soil	25-APR-2024	25-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-APR-2024	29-APR-2024	VB
Toluene	29-APR-2024	29-APR-2024	VB
Ethylbenzene	29-APR-2024	29-APR-2024	VB
m & p-Xylene	29-APR-2024	29-APR-2024	VB
o-Xylene	29-APR-2024	29-APR-2024	VB
Xylenes (Total)	29-APR-2024	29-APR-2024	SYS
F1 (C6 to C10)	29-APR-2024	29-APR-2024	VB
F1 (C6 to C10) minus BTEX	29-APR-2024	29-APR-2024	SYS
Toluene-d8	29-APR-2024	29-APR-2024	VB
F2 (C10 to C16)	30-APR-2024	30-APR-2024	SS
F3 (C16 to C34)	30-APR-2024	30-APR-2024	SS
F4 (C34 to C50)	30-APR-2024	30-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	30-APR-2024	30-APR-2024	SS

5821265	SP203	Soil	25-APR-2024	25-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-APR-2024	29-APR-2024	VB
Toluene	29-APR-2024	29-APR-2024	VB
Ethylbenzene	29-APR-2024	29-APR-2024	VB
m & p-Xylene	29-APR-2024	29-APR-2024	VB
o-Xylene	29-APR-2024	29-APR-2024	VB
Xylenes (Total)	29-APR-2024	29-APR-2024	SYS
F1 (C6 to C10)	29-APR-2024	29-APR-2024	VB
F1 (C6 to C10) minus BTEX	29-APR-2024	29-APR-2024	SYS
Toluene-d8	29-APR-2024	29-APR-2024	VB
F2 (C10 to C16)	30-APR-2024	30-APR-2024	SS
F3 (C16 to C34)	30-APR-2024	30-APR-2024	SS
F4 (C34 to C50)	30-APR-2024	30-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	30-APR-2024	30-APR-2024	SS

5821266	SP205	Soil	25-APR-2024	25-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z143377

PROJECT: CO884.03

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 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5821266	SP205	Soil	25-APR-2024	25-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-APR-2024	29-APR-2024	VB
Toluene	29-APR-2024	29-APR-2024	VB
Ethylbenzene	29-APR-2024	29-APR-2024	VB
m & p-Xylene	29-APR-2024	29-APR-2024	VB
o-Xylene	29-APR-2024	29-APR-2024	VB
Xylenes (Total)	29-APR-2024	29-APR-2024	SYS
F1 (C6 to C10)	29-APR-2024	29-APR-2024	VB
F1 (C6 to C10) minus BTEX	29-APR-2024	29-APR-2024	SYS
Toluene-d8	29-APR-2024	29-APR-2024	VB
F2 (C10 to C16)	30-APR-2024	30-APR-2024	SS
F3 (C16 to C34)	30-APR-2024	30-APR-2024	SS
F4 (C34 to C50)	30-APR-2024	30-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	29-APR-2024	29-APR-2024	PD
Terphenyl	30-APR-2024	30-APR-2024	SS

5821267	Methanol Blank	MeOH	25-APR-2024	25-APR-2024
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O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-APR-2024	29-APR-2024	VB
Toluene	29-APR-2024	29-APR-2024	VB
Ethylbenzene	29-APR-2024	29-APR-2024	VB
m & p-Xylene	29-APR-2024	29-APR-2024	VB
o-Xylene	29-APR-2024	29-APR-2024	VB
Xylenes (Total)	29-APR-2024	29-APR-2024	SYS
F1 (C6 to C10)	29-APR-2024	29-APR-2024	VB
F1 (C6 to C10) minus BTEX	29-APR-2024	29-APR-2024	SYS
Toluene-d8	29-APR-2024	29-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z143377  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID

Have feedback?  
Scan here for a quick survey!



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www.agatlab.com

### Laboratory Use Only

Work Order #: 242143377  
Cooler Quantity: one - bagged in  
Arrival Temperatures: 4.0 C.P. 4.3  
Depot Temperatures: 2.3 2.5 2.8  
Custody Seal Intact:  Yes  No  N/A  
Notes: bagged in

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Rd  
Ottawa, ON K2E 8B3  
Phone: 613-745-6771 Fax: \_\_\_\_\_  
Reports to be sent to:  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406

Table 2 Indicate One  
 Ind/Com  Ind/Com  
 Res/Park  Res/Park  
 Agriculture  Agriculture

Soil Texture (Check One)  
 Coarse  Regulation 558  
 Fine  CCME

Sewer Use  
 Sanitary  Storm

Prov. Water Quality Objectives (PWQO)  
 Other

### Project Information:

Project: C0884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: EB  
AGAT Quote #: 17116440659-202450  
Please note: If quotation number is not provided, client will be billed full price for analysis.

### Is this submission for a Record of Site Condition (RSC)?

Yes  No

### Report Guideline on Certificate of Analysis

Yes  No

### 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):

EOD May 1, 2024  
Please provide prior notification for rush TAT  
\*TAT is exclusive of weekends and statutory holidays

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

### Invoice Information:

Bill To Same: Yes  No

Company: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: \_\_\_\_\_

### Legal Sample

### Sample Matrix Legend

**GW** Ground Water **SD** Sediment  
**O** Oil **SW** Surface Water  
**P** Paint **R** Rock/Shale  
**S** Soil

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	O. Reg 153		O. Reg 406														
							Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> OC	Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> M&T <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> B&P <input type="checkbox"/> PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	PCBs: Aroclors <input type="checkbox"/>		Potentially Hazardous or High Concentration (Y/N)							
1. <u>SP201</u>	<u>Apr 25/24</u>	<u>10:00 AM</u>	<u>2</u>	<u>S</u>		<u>N</u>																	
2. <u>SP203</u>	<u>↓</u>	<u>10:10 AM</u>	<u>2</u>	<u>S</u>		<u>N</u>																	
3. <u>SP205</u>	<u>↓</u>	<u>10:20 AM</u>	<u>2</u>	<u>S</u>		<u>N</u>																	
4. <u>Methanol Blank</u>	<u>↓</u>	<u>10:30 AM</u>	<u>1</u>	<u>-</u>		<u>N</u>																	<u>X</u>
5.		AM																					
6.		PM																					
7.		PM																					
8.		PM																					
9.		PM																					
10.		PM																					
11.		PM																					

Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>Apr 25/24</u>	Time: <u>14:45</u>	Samples Received By (Print Name and Sign): <u>C. G. White</u>	Date: <u>04/25/24</u>	Time: <u>Shco</u>
Samples Relinquished By (Print Name and Sign): <u>C. G. to Puno</u>	Date: <u>04/25/24</u>	Time: <u>Shco</u>	Samples Received By (Print Name and Sign): <u>Terrapex</u>	Date: <u>Apr 26</u>	Time: <u>8:40am</u>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471

ATTENTION TO: Greg Sabourin

PROJECT: CO884.03

AGAT WORK ORDER: 24Z138772

TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager

DATE REPORTED: Apr 16, 2024

PAGES (INCLUDING COVER): 10

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 is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



# Certificate of Analysis

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-12

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:		TP101-4	TP103-4	TP104-2	TP105-4
		G / S	RDL	Soil	Soil	Soil	Soil
DATE SAMPLED:		2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12
		08:00	08:00	08:00	08:00	08:00	08:00
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	22	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	22	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA
Moisture Content	%		0.1	29.0	33.3	22.2	27.4
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	60-140		81.2	82.8	78	102
Terphenyl	%	60-140		113	118	95	87

Certified By:

*R. Chakraborty*



# Certificate of Analysis

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-12

DATE REPORTED: 2024-04-16

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

5796142-5796147 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

R. Chakraborty



# Certificate of Analysis

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-12

DATE REPORTED: 2024-04-16

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-12  
11:00

Parameter	Unit	G / S	RDL	5796148
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		78.8

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

5796148 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.  
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

R. Chakraborty

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z138772  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 16, 2024			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) - PHCs F1 - F4 (Soil)															
Benzene	5796146	5796146	<0.02	<0.02	NA	< 0.02	71%	60%	140%	77%	60%	140%	74%	60%	140%
Toluene	5796146	5796146	<0.05	<0.05	NA	< 0.05	74%	60%	140%	91%	60%	140%	80%	60%	140%
Ethylbenzene	5796146	5796146	<0.05	<0.05	NA	< 0.05	96%	60%	140%	73%	60%	140%	93%	60%	140%
m & p-Xylene	5796146	5796146	<0.05	<0.05	NA	< 0.05	93%	60%	140%	91%	60%	140%	92%	60%	140%
o-Xylene	5796146	5796146	<0.05	<0.05	NA	< 0.05	96%	60%	140%	105%	60%	140%	99%	60%	140%
F1 (C6 to C10)	5796146	5796146	22	19	NA	< 5	92%	60%	140%	91%	60%	140%	92%	60%	140%
F2 (C10 to C16)	5789274		333	342	2.7%	< 10	115%	60%	140%	95%	60%	140%	115%	60%	140%
F3 (C16 to C34)	5789274		< 50	< 50	NA	< 50	116%	60%	140%	118%	60%	140%	104%	60%	140%
F4 (C34 to C50)	5789274		< 50	< 50	NA	< 50	71%	60%	140%	81%	60%	140%	76%	60%	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: R. Chakraborty



## Time Markers

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

5835 COOPERS AVENUE  
 MISSISSAUGA, ONTARIO  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5796142	TP101-4	Soil	12-APR-2024	12-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	15-APR-2024	15-APR-2024	SS
F3 (C16 to C34)	15-APR-2024	15-APR-2024	SS
F4 (C34 to C50)	15-APR-2024	15-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	15-APR-2024	15-APR-2024	PD
Terphenyl	15-APR-2024	15-APR-2024	SS

5796145	TP103-4	Soil	12-APR-2024	12-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	15-APR-2024	15-APR-2024	SS
F3 (C16 to C34)	15-APR-2024	15-APR-2024	SS
F4 (C34 to C50)	15-APR-2024	15-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	15-APR-2024	15-APR-2024	PD
Terphenyl	15-APR-2024	15-APR-2024	SS

5796146	TP104-2	Soil	12-APR-2024	12-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5796146	TP104-2	Soil	12-APR-2024	12-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	15-APR-2024	15-APR-2024	SS
F3 (C16 to C34)	15-APR-2024	15-APR-2024	SS
F4 (C34 to C50)	15-APR-2024	15-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	15-APR-2024	15-APR-2024	PD
Terphenyl	15-APR-2024	15-APR-2024	SS

5796147	TP105-4	Soil	12-APR-2024	12-APR-2024
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O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	15-APR-2024	15-APR-2024	SS
F3 (C16 to C34)	15-APR-2024	15-APR-2024	SS
F4 (C34 to C50)	15-APR-2024	15-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	15-APR-2024	15-APR-2024	PD
Terphenyl	15-APR-2024	15-APR-2024	SS

5796148	Methanol Blank	MeOH	12-APR-2024	12-APR-2024
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## Time Markers

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

5835 COOPERS AVENUE  
 MISSISSAUGA, ONTARIO  
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 TEL (905)712-5100  
 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5796148	Methanol Blank	MeOH	12-APR-2024	12-APR-2024

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z138772

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID

Have feedback?  
Scan here for a quick survey!



**RUSH!**

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

### Laboratory Use Only

Work Order #: 247138772

Cooler Quantity: one - loose ice  
Arrival Temperatures: 5.5 5.7 5.6  
Depot Temperatures: 3.6 2.9 3.3  
Custody Seal Intact:  Yes  No  N/A  
Notes: bagged ice

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to: \_\_\_\_\_  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
Please note: If quotation number is not provided, client will be billed full price for analysis.

**Invoice Information:** Bill To Same: Yes  No   
Company: Terrapex  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  
 Table 2 Indicate One  
 Ind/Com  Ind/Com  
 Res/Park  Res/Park  
 Agriculture  Agriculture  
 Soil Texture (Check One)  
 Coarse  Regulation 558  
 Fine  CCME  
 Sewer Use  Sanitary  Storm  
 Region \_\_\_\_\_  
 Prov. Water Quality Objectives (PWQO)  
 Other  
Indicate One

### Is this submission for a Record of Site Condition (RSC)?

Yes  No

### Report Guideline on Certificate of Analysis

Yes  No

### Legal Sample

### Sample Matrix Legend

**GW** Ground Water **SD** Sediment  
**O** Oil **SW** Surface Water  
**P** Paint **R** Rock/Shale  
**S** Soil

### 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 CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	0. Reg 558	Potentially Hazardous or High Concentration (Y/N)
								Metals & Inorganics	Regulation 406 Characterization Package	Regulation 406 SPLIT Rainwater Leach	
								Metals - CrVI, Hg, HWSB	pH, Metals, BTEX, F1-F4	mSPLP: Metals, VOCs, SVOCs, OC	
								BTEX, F1-F4, PHCS	EC, SAR	Landfill Disposal Characterization TCLP	
								VOC	Regulation 406 Disposal Characterization	TCLP: MM&VOCs, AB&S, B&P, PCBs	
								PAHS	Corrosivity: Moisture, Sulphide		
								PCBs: Aroclors			
1. TP101-4	Apr 12/24	8:00 AM	2	S		2					
<del>2. TP102-2</del>	<del>Apr 12/24</del>	<del>8:30 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
<del>3. TP102-2</del>	<del>Apr 12/24</del>	<del>8:30 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
<del>4. TP102-5</del>	<del>Apr 12/24</del>	<del>8:45 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
5. TP103-4	Apr 12/24	9:00 AM	2	S		2					
6. TP104-2	Apr 12/24	9:30 AM	2	S		2					
<del>7. TP104-4</del>	<del>Apr 12/24</del>	<del>9:40 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
8. TP105-4	Apr 12/24	10:00 AM	2	S		2					
<del>9. TP105-4</del>	<del>Apr 12/24</del>	<del>10:00 AM</del>	<del>2</del>	<del>S</del>		<del>2</del>					
10. methanol Blank	Apr 12/24	11:00 AM	1	-		2					X
11.											

Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>Apr 12/24</u>	Time: <u>13:45</u>	Samples Received By (Print Name and Sign): <u>C. Guillet</u>	Date: <u>04/12/24</u>	Time: <u>13h55</u>
Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>04/12/24</u>	Time: <u>13h00</u>	Samples Received By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>4/13/24</u>	Time: <u>11:20 am</u>
Samples Relinquished By (Print Name and Sign): _____	Date: _____	Time: _____	Samples Received By (Print Name and Sign): _____	Date: _____	Time: _____

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471  
ATTENTION TO: Greg Sabourin  
PROJECT: CO884.03  
AGAT WORK ORDER: 24Z139246  
TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager  
DATE REPORTED: Apr 17, 2024  
PAGES (INCLUDING COVER): 8  
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.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.





## Certificate of Analysis

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

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: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-17

SAMPLE DESCRIPTION: TP108-2  
 SAMPLE TYPE: Soil  
 DATE SAMPLED: 2024-04-15  
 10:00  
 5798318

Parameter	Unit	G / S	RDL	5798318
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	150	10	<10
F3 (C16 to C34)	µg/g	1300	50	<50
F4 (C34 to C50)	µg/g	5600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA
Moisture Content	%		0.1	31.2
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		121
Terphenyl	%	60-140		87

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

5835 COOPERS AVENUE  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1Y2  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-17

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

5798318 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*

# Certificate of Analysis

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-17

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-04-15  
11:00

Parameter	Unit	G / S	RDL	5798319
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140		101

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

5798319 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.  
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

R. Chakraborty

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z139246  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 17, 2024			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) - PHCs F1/BTEX (MeOH)															
Benzene	5798049		<0.02	<0.02	NA	< 0.02	94%	60%	140%	84%	60%	140%	98%	60%	140%
Toluene	5798049		<0.05	<0.05	NA	< 0.05	90%	60%	140%	80%	60%	140%	100%	60%	140%
Ethylbenzene	5798049		<0.05	<0.05	NA	< 0.05	82%	60%	140%	73%	60%	140%	99%	60%	140%
m & p-Xylene	5798049		<0.05	<0.05	NA	< 0.05	91%	60%	140%	90%	60%	140%	99%	60%	140%
o-Xylene	5798049		<0.05	<0.05	NA	< 0.05	93%	60%	140%	81%	60%	140%	102%	60%	140%
F1 (C6 to C10)	5798049		<5	<5	NA	< 5	96%	60%	140%	95%	60%	140%	96%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5798049		<0.02	<0.02	NA	< 0.02	94%	60%	140%	84%	60%	140%	98%	60%	140%
Toluene	5798049		<0.05	<0.05	NA	< 0.05	90%	60%	140%	80%	60%	140%	100%	60%	140%
Ethylbenzene	5798049		<0.05	<0.05	NA	< 0.05	82%	60%	140%	73%	60%	140%	99%	60%	140%
m & p-Xylene	5798049		<0.05	<0.05	NA	< 0.05	91%	60%	140%	90%	60%	140%	99%	60%	140%
o-Xylene	5798049		<0.05	<0.05	NA	< 0.05	93%	60%	140%	81%	60%	140%	102%	60%	140%
F1 (C6 to C10)	5798049		<5	<5	NA	< 5	96%	60%	140%	95%	60%	140%	96%	60%	140%
F2 (C10 to C16)	5793471		< 10	< 10	NA	< 10	120%	60%	140%	98%	60%	140%	83%	60%	140%
F3 (C16 to C34)	5793471		< 50	< 50	NA	< 50	124%	60%	140%	116%	60%	140%	115%	60%	140%
F4 (C34 to C50)	5793471		< 50	< 50	NA	< 50	68%	60%	140%	115%	60%	140%	63%	60%	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: R. Chakraborty



## Time Markers

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798318	TP108-2	Soil	15-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	17-APR-2024	17-APR-2024	SS
F3 (C16 to C34)	17-APR-2024	17-APR-2024	SS
F4 (C34 to C50)	17-APR-2024	17-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	PD
Terphenyl	17-APR-2024	17-APR-2024	SS

5798319	Methanol Blank	MeOH	15-APR-2024	15-APR-2024
---------	----------------	------	-------------	-------------

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z139246

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID

Have feedback?  
Scan here for a quick survey!



**RUSH!**

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

### Laboratory Use Only

Work Order #: 247139246  
Cooler Quantity: one - large ice  
Arrival Temperatures: 6.6 | 6.9 | 6.8  
Refrigerator Temperatures: 2-1 | 2-4 | 2-3  
Custody Seal Intact:  Yes  No  N/A  
Notes: bagged in

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to: g.sabourin@terrapex.com  
1. Email: \_\_\_\_\_  
2. Email: \_\_\_\_\_

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm  
Table 2 Indicate One  Ind/Com  Res/Park  Agriculture  
Soil Texture (Check One)  Coarse  Fine  
 Regulation 558  CCME  
Region \_\_\_\_\_  
Prov. Water Quality Objectives (PWQO)  Other \_\_\_\_\_  
Indicate One \_\_\_\_\_

### Is this submission for a Record of Site Condition (RSC)?

Yes  No

### Report Guideline on Certificate of Analysis

Yes  No

### Legal Sample

### Sample Matrix Legend

**GW** Ground Water **SD** Sediment  
**O** Oil **SW** Surface Water  
**P** Paint **R** Rock/Shale  
**S** Soil

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
Please note: if quotation number is not provided, client will be billed full price for analysis.

**Invoice Information:** Bill To Same: Yes  No   
Company: Terrapex  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	0. Reg 153	0. Reg 406	0. Reg 558	Potentially Hazardous or High Concentration (Y/N)	
								Metals & Inorganics	Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	Regulation 406 SPLP Rainwater Leach mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> OC	Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> M&M <input type="checkbox"/> VOCs <input type="checkbox"/> Metals <input type="checkbox"/> B6/p <input type="checkbox"/> PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide
1. <u>TP108-2</u>	<u>Apr 15/24</u>	<u>10:00 AM</u>	<u>2</u>	<u>S</u>		<u>N</u>						
2. <u>methanol Blank</u>	<u>↓</u>	<u>11:00 AM</u>	<u>1</u>	<u>S</u>		<u>N</u>						
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
11.												

Samples Relinquished By (Print Name and Sign): <u>E. Boonstra</u>	Date: <u>Apr 15/24</u> Time: <u>14:00</u>	Samples Received By (Print Name and Sign): <u>C. J. [Signature]</u>	Date: <u>04/15/24</u> Time: <u>8:25 AM</u>
Samples Relinquished By (Print Name and Sign): <u>C. J. [Signature]</u>	Date: <u>04/15/24</u> Time: <u>15:00</u>	Samples Received By (Print Name and Sign): <u>J. R. [Signature]</u>	Date: <u>Apr 16</u> Time: _____

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
20 GURDWARA ROAD, UNIT 1  
OTTAWA, ON K2E 8B3  
613 745 6471

ATTENTION TO: Greg Sabourin

PROJECT: CO884.03

AGAT WORK ORDER: 24Z139245

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Apr 16, 2024

PAGES (INCLUDING COVER): 26

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 is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



# Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

5835 COOPERS AVENUE  
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 FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:		GS1	GS2	GS3	GS4	GS5	GS6	GS7	GS8
		G / S	RDL	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-04-12 14:00	2024-04-12 14:05	2024-04-12 14:10	2024-04-12 14:15	2024-04-12 14:20	2024-04-12 14:25	2024-04-12 14:30	2024-04-12 14:35
				5798272	5798274	5798275	5798276	5798277	5798278	5798279	5798280
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	<1	<1	<1	<1	<1	<1	<1	<1
Barium	µg/g	390	2.0	18.2	17.6	16.3	16.6	15.7	15.9	16.9	16.2
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5	<5	<5	<5	<5	<5
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	6	7	7	7	6	7	7	7
Cobalt	µg/g	22	0.8	3.2	3.4	3.1	3.7	2.9	3.0	3.1	3.1
Copper	µg/g	180	1.0	6.7	7.2	6.7	7.2	8.2	6.7	6.8	6.7
Lead	µg/g	120	1	2	2	2	2	2	2	2	2
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	5	6	5	5	5	5	5	5
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	<0.50	<0.50	<0.50	0.62	<0.50	<0.50	0.54	0.52
Vanadium	µg/g	86	2.0	14.6	17.8	16.3	18.9	15.0	16.0	18.1	20.7
Zinc	µg/g	340	5	11	11	10	11	10	10	10	11

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

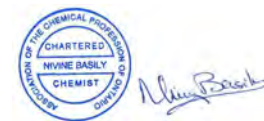
DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:				
		G / S	RDL	GS9	GS10	GS11
				Soil	Soil	Soil
				2024-04-12	2024-04-12	2024-04-12
				14:40	14:50	14:50
				5798281	5798282	5798283
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	1	1	<1
Barium	µg/g	390	2.0	17.7	17.1	18.2
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	9	9	7
Cobalt	µg/g	22	0.8	3.5	4.1	3.3
Copper	µg/g	180	1.0	7.1	6.9	7.1
Lead	µg/g	120	1	2	2	2
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	6	6	5
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.58	0.66	0.55
Vanadium	µg/g	86	2.0	25.5	23.5	16.5
Zinc	µg/g	340	5	10	11	11

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

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin

SAMPLED BY: E. Boonstra

## O. Reg. 153(511) - ORPs (Soil)

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

		SAMPLE DESCRIPTION:		GS1	GS2	GS3	GS4	GS5	GS6	GS7	GS8
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-04-12 14:00	2024-04-12 14:05	2024-04-12 14:10	2024-04-12 14:15	2024-04-12 14:20	2024-04-12 14:25	2024-04-12 14:30	2024-04-12 14:35
Parameter	Unit	G / S	RDL	5798272	5798274	5798275	5798276	5798277	5798278	5798279	5798280
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
		SAMPLE DESCRIPTION:		GS9	GS10	GS11					
		SAMPLE TYPE:		Soil	Soil	Soil					
		DATE SAMPLED:		2024-04-12 14:40	2024-04-12 14:50	2024-04-12 14:50					
Parameter	Unit	G / S	RDL	5798281	5798282	5798283					
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10					

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

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



*E. Boonstra*



## Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
SAMPLING SITE: 5650 Manotick Main Street

ATTENTION TO: Greg Sabourin  
SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:		GS1	GS2	GS3	GS4	GS5	GS6	GS7
		G / S	RDL	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:		2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12
		14:00	14:05	14:10	14:15	14:20	14:25	14:30		
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	14.6	13.9	1.8	6.9	6.1	8.7	5.6
Surrogate	Unit	Acceptable Limits								
Toluene-d8	% Recovery	60-140		112	89	105	81	102	98	108
Terphenyl	%	60-140		82	95	91	97	80	78	80

Certified By:

# Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

Parameter	Unit	SAMPLE DESCRIPTION:		GS8	GS9	GS10	GS11
		G / S	RDL	Soil	Soil	Soil	Soil
DATE SAMPLED:		2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12	2024-04-12
		14:35	14:40	14:50	14:50	14:50	14:50
		5798280	5798281	5798282	5798283		
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA
Moisture Content	%		0.1	7.8	7.3	32.0	8.1
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	60-140		112	83.2	79.5	69.8
Terphenyl	%	60-140		81	86	74	89

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

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

DATE RECEIVED: 2024-04-15

DATE REPORTED: 2024-04-16

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

5798272-5798283 Results are based on sample dry weight.  
The C6-C10 fraction is calculated using Toluene response factor.  
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.  
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.  
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.  
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.  
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.  
The chromatogram has returned to baseline by the retention time of nC50.  
Total C6 - C50 results are corrected for BTEX contribution.  
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.  
nC6 and nC10 response factors are within 30% of Toluene response factor.  
nC10, nC16 and nC34 response factors are within 10% of their average.  
C50 response factor is within 70% of nC10 + nC16 + nC34 average.  
Linearity is within 15%.  
Extraction and holding times were met for this sample.  
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.  
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z139245  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

Soil Analysis															
RPT Date: Apr 16, 2024			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) - ORPs (Soil)**

Mercury	5796461	<0.10	<0.10	NA	< 0.10	113%	70%	130%	100%	80%	120%	105%	70%	130%
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Comments: NA signifies Not Applicable.  
 Duplicate NA: results are under 5X the RDL and will not be calculated.

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

Antimony	5796461	<0.8	<0.8	NA	< 0.8	135%	70%	130%	105%	80%	120%	94%	70%	130%
Arsenic	5796461	3	3	NA	< 1	122%	70%	130%	105%	80%	120%	107%	70%	130%
Barium	5796461	46.0	41.2	11.0%	< 2.0	100%	70%	130%	96%	80%	120%	93%	70%	130%
Beryllium	5796461	<0.5	<0.5	NA	< 0.5	88%	70%	130%	111%	80%	120%	103%	70%	130%
Boron	5796461	6	11	NA	< 5	75%	70%	130%	100%	80%	120%	84%	70%	130%
Cadmium	5796461	<0.5	<0.5	NA	< 0.5	99%	70%	130%	104%	80%	120%	108%	70%	130%
Chromium	5796461	16	17	NA	< 5	112%	70%	130%	117%	80%	120%	113%	70%	130%
Cobalt	5796461	6.0	5.7	5.1%	< 0.8	115%	70%	130%	111%	80%	120%	109%	70%	130%
Copper	5796461	13.1	12.3	6.3%	< 1.0	99%	70%	130%	112%	80%	120%	98%	70%	130%
Lead	5796461	9	11	20.0%	< 1	108%	70%	130%	104%	80%	120%	102%	70%	130%
Molybdenum	5796461	<0.5	<0.5	NA	< 0.5	115%	70%	130%	105%	80%	120%	110%	70%	130%
Nickel	5796461	14	13	7.4%	< 1	113%	70%	130%	108%	80%	120%	100%	70%	130%
Selenium	5796461	<0.8	<0.8	NA	< 0.8	96%	70%	130%	103%	80%	120%	102%	70%	130%
Silver	5796461	<0.5	<0.5	NA	< 0.5	112%	70%	130%	106%	80%	120%	101%	70%	130%
Thallium	5796461	<0.5	<0.5	NA	< 0.5	110%	70%	130%	101%	80%	120%	102%	70%	130%
Uranium	5796461	<0.50	<0.50	NA	< 0.50	120%	70%	130%	102%	80%	120%	112%	70%	130%
Vanadium	5796461	26.1	26.4	1.1%	< 2.0	125%	70%	130%	116%	80%	120%	112%	70%	130%
Zinc	5796461	47	51	8.2%	< 5	108%	70%	130%	113%	80%	120%	110%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



## Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z139245  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

### Trace Organics Analysis

RPT Date: Apr 16, 2024			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) - PHCs F1 - F4 (Soil)																
Benzene	5798283	5798283	<0.02	<0.02	NA	< 0.02	93%	60%	140%	94%	60%	140%	86%	60%	140%	
Toluene	5798283	5798283	<0.05	<0.05	NA	< 0.05	89%	60%	140%	87%	60%	140%	93%	60%	140%	
Ethylbenzene	5798283	5798283	<0.05	<0.05	NA	< 0.05	102%	60%	140%	98%	60%	140%	99%	60%	140%	
m & p-Xylene	5798283	5798283	<0.05	<0.05	NA	< 0.05	102%	60%	140%	96%	60%	140%	90%	60%	140%	
o-Xylene	5798283	5798283	<0.05	<0.05	NA	< 0.05	102%	60%	140%	98%	60%	140%	93%	60%	140%	
F1 (C6 to C10)	5798283	5798283	<5	<5	NA	< 5	93%	60%	140%	94%	60%	140%	91%	60%	140%	
F2 (C10 to C16)	5787521		< 10	< 10	NA	< 10	98%	60%	140%	108%	60%	140%	115%	60%	140%	
F3 (C16 to C34)	5787521		1050	775	30.1%	< 50	102%	60%	140%	110%	60%	140%	120%	60%	140%	
F4 (C34 to C50)	5787521		349	272	24.8%	< 50	65%	60%	140%	115%	60%	140%	125%	60%	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).

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

F2 (C10 to C16)	5789165		< 10	< 10	NA	< 10	120%	60%	140%	98%	60%	140%	83%	60%	140%
F3 (C16 to C34)	5789165		< 50	< 50	NA	< 50	124%	60%	140%	116%	60%	140%	115%	60%	140%
F4 (C34 to C50)	5789165		< 50	< 50	NA	< 50	68%	60%	140%	115%	60%	140%	63%	60%	140%

Certified By: \_\_\_\_\_





## QC Exceedance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03

AGAT WORK ORDER: 24Z139245  
 ATTENTION TO: Greg Sabourin

RPT Date: Apr 16, 2024		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper

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

Antimony	135%	70%	130%	105%	80%	120%	94%	70%	130%
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Comments: NA Signifies Not Applicable.  
 Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798272	GS1	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798272	GS1	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	16-APR-2024	16-APR-2024	SS

5798274	GS2	Soil	12-APR-2024	15-APR-2024
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O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS

# Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798274	GS2	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798275	GS3	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798275	GS3	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798276	GS4	Soil	12-APR-2024	15-APR-2024
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O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
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## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798276	GS4	Soil	12-APR-2024	15-APR-2024

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798277	GS5	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE

# Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798277	GS5	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798278	GS6	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE



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AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798278	GS6	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798279	GS7	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE





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AGAT WORK ORDER: 24Z139245

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798279	GS7	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798280	GS8	Soil	12-APR-2024	15-APR-2024
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PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798280	GS8	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798280	GS8	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	16-APR-2024	16-APR-2024	SS

5798281	GS9	Soil	12-APR-2024	15-APR-2024
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O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798281	GS9	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798282	GS10	Soil	12-APR-2024	15-APR-2024
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**O. Reg. 153(511) - Metals (Including Hydrides) (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB



## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798282	GS10	Soil	12-APR-2024	15-APR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

5798283	GS11	Soil	12-APR-2024	15-APR-2024
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O. Reg. 153(511) - Metals (Including Hydrides) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	16-APR-2024	16-APR-2024	SE
Arsenic	16-APR-2024	16-APR-2024	SE
Barium	16-APR-2024	16-APR-2024	SE
Beryllium	16-APR-2024	16-APR-2024	SE
Boron	16-APR-2024	16-APR-2024	SE
Cadmium	16-APR-2024	16-APR-2024	SE
Chromium	16-APR-2024	16-APR-2024	SE
Cobalt	16-APR-2024	16-APR-2024	SE
Copper	16-APR-2024	16-APR-2024	SE
Lead	16-APR-2024	16-APR-2024	SE
Molybdenum	16-APR-2024	16-APR-2024	SE
Nickel	16-APR-2024	16-APR-2024	SE
Selenium	16-APR-2024	16-APR-2024	SE
Silver	16-APR-2024	16-APR-2024	SE
Thallium	16-APR-2024	16-APR-2024	SE
Uranium	16-APR-2024	16-APR-2024	SE
Vanadium	16-APR-2024	16-APR-2024	SE
Zinc	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
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## Time Markers

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

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: Greg Sabourin

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5798283	GS11	Soil	12-APR-2024	15-APR-2024

**O. Reg. 153(511) - ORPs (Soil)**

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	16-APR-2024	16-APR-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-APR-2024	16-APR-2024	VB
Toluene	16-APR-2024	16-APR-2024	VB
Ethylbenzene	16-APR-2024	16-APR-2024	VB
m & p-Xylene	16-APR-2024	16-APR-2024	VB
o-Xylene	16-APR-2024	16-APR-2024	VB
Xylenes (Total)	16-APR-2024	16-APR-2024	SYS
F1 (C6 to C10)	16-APR-2024	16-APR-2024	VB
F1 (C6 to C10) minus BTEX	16-APR-2024	16-APR-2024	SYS
Toluene-d8	16-APR-2024	16-APR-2024	VB
F2 (C10 to C16)	16-APR-2024	16-APR-2024	SS
F3 (C16 to C34)	16-APR-2024	16-APR-2024	SS
F4 (C34 to C50)	16-APR-2024	16-APR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	16-APR-2024	16-APR-2024	AA
Terphenyl	16-APR-2024	16-APR-2024	SS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED  
 PROJECT: CO884.03  
 SAMPLING SITE: 5650 Manotick Main Street

AGAT WORK ORDER: 24Z139245  
 ATTENTION TO: Greg Sabourin  
 SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

## Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z139245

PROJECT: CO884.03

ATTENTION TO: Greg Sabourin

SAMPLING SITE: 5650 Manotick Main Street

SAMPLED BY: E. Boonstra

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID



Have feedback?  
Scan here for a quick survey!



5835 Coopers Avenue  
Mississauga, Ontario L4Z 1Y2  
Ph: 905.712.5100 Fax: 905.712.5122  
web@earth.agatabs.com

### Laboratory Use Only

Work Order #: 242139245  
Cooler Quantity: one - loose ice  
Arrival Temperatures: 6.6 6.9 6.8  
~~Spot~~ Spot Temperatures: 2.1 2.4 2.3  
Custody Seal Intact:  Yes  No  N/A  
Notes: bagged in

## 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: Greg Sabourin  
Address: 1-20 Gurdwara Road  
Ottawa, ON K2E 8B3  
Phone: 613-745-6471 Fax: \_\_\_\_\_  
Reports to be sent to:  
1. Email: g.sabourin@terrapex.com  
2. Email: \_\_\_\_\_

**Project Information:**  
Project: CO884.03  
Site Location: 5650 Manotick Main Street  
Sampled By: E. Boonstra  
AGAT Quote #: 17116440659 - So 2024 PO: \_\_\_\_\_  
Please note: if quotation number is not provided, client will be billed full price for analysis.

**Invoice Information:** Bill To Same: Yes  No   
Company: Terrapex  
Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
Email: accounts.payable@terrapex.com

### Regulatory Requirements:

(Please check all applicable boxes)

Regulation 153/04  Regulation 406  Sewer Use  
 Sanitary  Storm  
Table Indicate One  Ind/Com  Res/Park  Agriculture  
Soil Texture (Check One)  Coarse  Fine  
 Regulation 558  CCME  
Region \_\_\_\_\_  
Prov. Water Quality Objectives (PWQO)  Other \_\_\_\_\_  
Indicate One

### Is this submission for a Record of Site Condition (RSC)?

Yes  No

### Report Guideline on Certificate of Analysis

Yes  No

### Legal Sample

### Sample Matrix Legend

GW Ground Water SD Sediment  
O Oil SW Surface Water  
P Paint R Rock/Shale  
S Soil

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	0. Reg 153		0. Reg 406		0. Reg 558		Potentially Hazardous or High Concentration (Y/N)
							Metals & Inorganics	Metals - <input type="checkbox"/> CrVI, <input type="checkbox"/> Hg, <input type="checkbox"/> HWSB	Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4 EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: <input type="checkbox"/> Metals <input type="checkbox"/> VOCs <input type="checkbox"/> SVOCs <input type="checkbox"/> OC	Landfill Disposal Characterization TCLP: TCLP: <input type="checkbox"/> M&M <input type="checkbox"/> VOCs <input type="checkbox"/> ABNs <input type="checkbox"/> B6/P <input type="checkbox"/> PCBs	Corrosivity: <input type="checkbox"/> Moisture <input type="checkbox"/> Sulphide	
1. <u>GS1</u>	<u>Apr 15/24</u>	<u>14:00</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
2. <u>GS2</u>		<u>14:05</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
3. <u>GS3</u>		<u>14:10</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
4. <u>GS4</u>		<u>14:15</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
5. <u>GS5</u>		<u>14:20</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
6. <u>GS6</u>		<u>14:25</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
7. <u>GS7</u>		<u>14:30</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
8. <u>GS8</u>		<u>14:35</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
9. <u>GS9</u>		<u>14:40</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
10. <u>GS10</u>		<u>14:50</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					
11. <u>GS11</u>		<u>14:50</u> AM	<u>3</u>	<u>S</u>		<u>Y</u>	<u>Y</u>	<u>Y</u>					

Samples Relinquished By (Print Name and Sign): <u>Eric Boonstra</u>	Date: <u>Apr 15/24</u> Time: <u>14:00</u>	Samples Received By (Print Name and Sign): <u>C. C. ...</u>	Date: <u>04/15/24</u> Time: <u>13h58</u>
Samples Relinquished By (Print Name and Sign): <u>Chito ...</u>	Date: <u>04/15/24</u> Time: <u>15h00</u>	Samples Received By (Print Name and Sign): <u>...</u>	Date: <u>Apr 16</u> Time: <u>8:25 AM</u>
Samples Relinquished By (Print Name and Sign): _____	Date: _____ Time: _____	Samples Received By (Print Name and Sign): _____	Date: _____ Time: _____