SOIL & MATERIALS ENGINEERING INC.
CONSULTING ENGINEERS

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

For the Property Located at

1880 Assumption Street, Windsor, Ontario

REPORT ISSUED TO

Radical Capital Management Inc.

3440 North Talbot Rd.,

Oldcastle, ON N0R 1L0

ATTENTION

Steve Hengsperger

steveh@tersano.com

DATE OF REPORT

August 26, 2025

JOB NUMBER

23E013

Revisions: 00

DISTRIBUTION OF REPORT

1 e-copy – Radical Capital Management Inc.

EXECUTIVE SUMMARY

In accordance with the request and authorization from Mr. Steve Hengsperger of Radical Capital Management Inc., Soil & Materials Engineering Inc. has completed a Phase Two Environmental Site Assessment (ESA) for the property located at 1880 Assumption Street, Windsor, Ontario. Since the owner acquired the RSC property in 2023, the site has occupied a commercial building and a parking lot. As such the inferred land use is commercial, however the site has historic industrial land uses (preceding 2001). Should the site be redeveloped with a more sensitive land use (residential), the filing of a RSC in accordance with Ontario Regulation 153/04 (O.Reg.153/04), as amended is a mandatory requirement.

In order to quantify or establish the environmental character of the site, The Phase Two ESA was completed to support the filing of the record of site condition (RSC) and was completed in general accordance with Ontario Regulation 153/04, as amended (hereafter, O. Reg. 153/04) (MOE, 2011a) to confirm and verify the presence of contaminants as identified in previous investigations and characterize the substances of concern at a given site which had not yet been investigated. This Phase Two report represents conditions during the period of assessment from May to August 2025.

During the completion of the Phase One ESA, Soil & Materials Engineering Inc. (SME) documented that the RSC Property was developed preceding 1931 based on a review of aerial imagery and has a history of industrial occupancies. This included Hiram Walker (1973 - 1890), Dominion Twist and Drill Ltd (1948- 1976) and Hartford Tooling Ltd. (1976 – 2001). From approximately 2001, the site has primarily consisted of commercial use, and the site has been operated as a commercial office building. Based on the historical industrial nature of this site, it is considered an Enhanced Investigation Property. Based on the identified concerns in the Phase One ESA, Soil & Materials Engineering Inc. was subsequently contracted to complete this Phase Two ESA to investigate the identified APECs on site.

Soil & Materials Engineering Inc. conducted testhole drilling on May 8, 29 and 30, 2025. The testholes were advanced under the direction of a Professional Engineer at locations clear of underground utilities and over-head obstructions. No free phase liquid petroleum hydrocarbons were noted during the collection of the soil samples at the site. No sheen or iridescence was noted in the samples. No staining and/or odours were observed.

Based on the Phase Two investigative program, the following exceedances were encountered when compared to O. Reg. 153/04 Table 3 RPI for medium-fine grained soil:

- Soil sample 1/0.5 encountered exceedances in VOCs and SVOCs
- Soil sample 2/0.5 encountered exceedances in metals and VOCs
- Soil sample 4/0.5 encountered exceedances in metals
- Soil sample 6/1.0 encountered exceedances in metals and VOCs
- Soil sample 10/15.0 encountered exceedances in metals and SVOCs.
    - Due to elevated concentrations of detected contaminants in these samples, minimum detection levels of several SVOCs were unachievable resulting in elevated detection limits. Therefore, the SVOC parameters in this sample reported as “non-detect” at elevated detection limits are deemed impacted and in exceedance to the applicable SCS.
- Soil sample 8/1.5 encountered exceedances in metals, PHCs and SVOCs
    - Due to elevated concentrations of detected contaminants in these samples, minimum detection levels of several SVOCs were unachievable resulting in elevated detection limits. Therefore, the SVOC parameters in this sample reported as “non-detect” at elevated detection limits are deemed impacted and in exceedance to the applicable SCS.
- Soil sample 8/3.5 encountered exceedances in PHCs
- Soil sample 7/1.0 and DUP-4 encountered metal exceedances
    - Due to elevated concentrations of detected contaminants in these samples, minimum detection levels of several SVOCs were unachievable resulting in elevated detection limits. Therefore, the SVOC parameters in these samples reported as “non-detect” at elevated detection limits are deemed impacted and in exceedance to the applicable SCS.
- Soil sample 9/1.0 encountered metal and VOC exceedances

All concentrations of metals, As, Sb, Se, CR (VI), HWSB, Hg, pH, PHCs, SVOCs and VOCs measured in the analyzed groundwater samples were reported below or non-detect when compared to O. Reg. Table 3 for non-potable groundwater in medium-fine grained soil conditions.

Based on the findings of the Phase Two ESA, if residential development is to be pursued, additional environmental site assessment and remedial work will be required to address soil impacts that exceed the Site Condition Standards outlined in O. Reg. 153/04, Table 3 for Residential/Parkland/Institutional land use. In accordance with paragraph 3 of subsection 168.4(3.1) of the Environmental Protection Act (EPA), a Record of Site Condition (RSC) cannot be filed based on the current Phase Two investigation results and the existing soil conditions. Should the Record of Site Condition be pursued for residential development, or any development of a more sensitive land use, the site is required to meet the applicable site condition standard and completion of a Conceptual Site Model will be required at that time.

This executive summary is a synopsis of the report and should not be read in lieu of reading the report.

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LIST OF ACRONYMS AND ABBREVIATIONS

ABNs	Acid, Base, Neutral Extractables
APEC	Area of Potential Environmental Concern
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
CALA	Canadian Association for Laboratory Accreditation
C of A	Certificate of Approval
CN	Cyanide
COC	Contaminant of Concern
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
EC	Electrical Conductivity
EPA	Environmental Protection Act
ESA	Environmental Site Assessment
ESQS	Excess Soil Quality Standards
ICC	Industrial/Commercial/Community
mASL	Metres Above Sea Level
mbgs	Metres Below Ground Surface
MECP	Ministry of the Environment, Conservation and Parks
MOE	Ministry of the Environment
MOECC	Ministry of the Environment and Climate Change
MOEE	Ministry of the Environment and Energy
MW	Monitoring Well
O. Reg.	Ontario Regulation
PCA	Potentially Contaminating Activity
PCBs	Polychlorinated Biphenyls
PHCs	Petroleum Hydrocarbons
PAHs	Polycyclic Aromatic Hydrocarbon
QA/QC	Quality Assurance/Quality Control
RDL	Reporting Detection Limit
RL	Reporting Limit
RPI	Residential/Parkland/Institutional
RSC	Record of Site Condition
SAP	Sampling and Analysis Plan
SAR	Sodium Adsorption Ratio
SCS	Site Condition Standard
SCR	Soil Characterization Report
SPLP	Synthetic Precipitate Leachate Procedure
SVOC	Semi Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
THM	Trihalomethanes
TP	Test Pit
µg/g	Micrograms per Gram
µg/L	Micrograms per Litre
VOCs	Volatile Organic Compound

1.0 INTRODUCTION

Soil & Materials Engineering Inc was authorized by Mr. Steve Hengsperger of Radical Capital Management Inc., Soil & Materials Engineering Inc. has completed a Phase Two Environmental Site Assessment (ESA) for the property located at 1880 Assumption Street, Windsor, Ontario.

In order to quantify or establish the environmental character of the site, The Phase Two ESA was completed to support the potential filing of an RSC and was completed in general accordance with Ontario Regulation 153/04, as amended (hereafter, O. Reg. 153/04) (MOE, 2011a) to confirm the presence and characterize the substances of concern at a given site. This Phase Two report represents conditions during the period of assessment during March to May 2022 and was completed in accordance with the Ministry of Environment Conservation and Parks (MECP) O. Reg. 153/04.

1.1 Phase Two Site Description

The site measures approximately 0.92 acres (0.37 hectares). The site building has been developed preceding 1931 based on a review of available archives. The site is primarily occupied by a commercial office building with an asphalt parking lot to the east and north of the building and a black metal storage container in the northwest corner of the site.

1.2 Current and Proposed Future Uses

Soil & Materials Engineering Inc. obtained current and historical information regarding the Phase Two Property by completing a Phase One ESA. The site currently consists of a commercial office building, parking lot and storage shipping container, historically used for industrial purposes. It is our understanding that the client will be required to complete a record of site condition (RSC) if the site is intended for redevelopment of the Phase Two Property for residential use and the historical land use. According to Section 168.3.1 of the Environmental Protection Act (MOE 1990), an RSC must be filed prior to redevelopment of the site for a more sensitive land use such as for residential/ institutional or parkland purposes.

1.3 Background Information

At the time of this investigation, the site building occupied four (4) units (Units 100, 200, 300 & 400) however, one unit (Unit 200) was unoccupied at the time of this investigation. Unit 100 was occupied by Tandem Engineering Group (architectural engineering company) and Unit 300 was occupied by Tango Creative Group

(traditional and digital advertising/ marking company) and unit 400 was occupied by SCELTA (marketing, sales, modelling and operations).

The RSC Property has had a history of industrial occupancies including Hiram Walker (1973 - 1890), Dominion Twist and Drill Ltd (1948- 1976) and Hartford Tooling Ltd. (1976 – 2001). From approximately 2001, the site has primarily consisted of commercial use, and the site has since been operated as a commercial office building. Based on the historical industrial nature of this site, it is considered an Enhanced Investigation Property

1.4 Phase Two Property Information

Provided below is a summary of the Phase Two property information.

Table 1.1 Phase One Property Information

Details	Information					
Legal description	Part Block A Plan 211 SE as in R656927					
Municipal Address	1880 Assumption Street, Windsor, Ontario					
UTM Coordinates	Zone:	17 T	Easting:	334,015	Northing:	4,687,762
Paracel Identification	01134-0147 (LT)					
Assessment Roll Number	250-000-00200-0000					
Current Owners	Radical Capital Management Inc.					
Owner Contact Information	Steve Hengsperger 3440 North Talbot Rd., Oldcastle, ON N0R 1L0 steveh@tersano.com					
Current Zoning	MD1.4 – Manufacturing District					

2.0 SCOPE OF WORK

The objective of the Phase Two ESA was to assess soil and groundwater conditions at the RSC property in support of the future development. The scope of work for the Phase Two included the following tasks:

- Request local public utilities to mark and underground utilities present at the site.
- Advance 12 testholes at the site to a maximum depth of 6.1 m.
- Install monitoring wells in five (5) of the newly advanced testholes.
- Logging and field screening of recovered soil samples for evidence of negative impact using visual, olfactory, and sample headspace screening methods.
- Collect soil samples for analysis of metals, pH, petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs).
- Collect groundwater samples for analysis of metals, PAHS, PHCs, VOCs.
- Measure groundwater levels in thew newly installed monitoring wells.
- Comparing the analytical results reported for the soil and groundwater samples to the appropriate generic site conditions standards established in “Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA”, MECP, April 15, 2011.
- Preparing a report documenting the findings of the Phase II ESA including the methodology used, analytical results for all selected samples, an interpretation of the findings and any possible requirements for further investigation, remedial activities or reporting obligations.

3.0 SITE ASSESSMENT CRITERIA

The assessment criteria, Site Condition Standards (SCS), applicable to a given site in Ontario are established under subsection 168.4(1) of the Environmental Protection Act. Tabulated generic criteria are provided in "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" ("the SGWS Standards"), MECP, April 15, 2011. These criteria are based on site sensitivity (sensitive or non-sensitive), groundwater use (potable or non-potable), property use (residential, parkland, institutional, commercial, industrial, community and agricultural/other), soil type (coarse or medium/fine textured) and restoration depth (full or stratified restoration).

The Site-specific details which formed the basis of the assessment criteria selection are provided below:

- The RSC Property is not located on or within 30 m of an Area of Natural Significance or designated Area of Natural and Scientific Interest (ANSI) that would classify it as a sensitive site under Section 41 of O. Reg. 153/04, as amended.
- Overburden thickness is reported as 35± metres thick, and therefore the RSC Property would not be classified as a shallow soil property under Section 43.1(a) of O. Reg. 153/04, as amended.
- The Detroit River is located approximately 160 meters north of the site. The site is located within the Windsor Area Drainage system. Therefor water is anticipated to infiltrate the stormwater drainage system though surrounding drains located on municipal roadways and travel north towards the Detroit River. As per Section 43.1(b) of O. Reg. 153/04, as amended, a water body is not present within 30 m of the RSC Property.
- There are no drinking water wells identified on the RSC Property or within the RSC Study Area. Groundwater elevations were calculated based on the water level depths and survey data from using a local permanent geodetic benchmark. The ground water flow direction is inferred to be to the north/northwest, as measured from static groundwater elevations from five groundwater monitors at the RSC Property.
- As per Section 41(1) (b), the soil samples collected from the RSC Property have pH ranging from 6.45 to 9.63, which are within the required range of 5 – 9 (surface soil) and 5 – 11 (subsurface soil) to permit application of the O. Reg. 153/04 Standards.

- Grain size distribution analysis performed on a representative soil sample collected at the RSC Property indicated the soils comprising at least two-thirds of the soil at the RSC Property to be fine to medium textured with more than 50% passing the 75 µm mesh size, as per Section 42 (1).

The analytical results were evaluated using:

- Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Residential/Parkland/institutional Land Use (Table 3 RPI).

4.0 INVESTIGATION

Testholes were advanced under the direction of a Professional Engineer at locations clear of underground utilities and over-head obstructions. All drilling activities were completed by C.T. Soil & Materials Testing Inc. field staff and supervised by a Qualified Person (QP). Provided below is a summary of the investigation methods.

4.1 Subsurface Utility Locates

Prior to drilling, public locates were submitted to Ontario One Call on April 7, 2025 and received prior to work commencing to clear testhole and monitoring well locations of underground utilities including telephone, natural gas and electrical lines.

4.2 Drilling Program

Soil & Materials Engineering Inc. conducted testhole drilling on May 8, 29 and 20, 2025. The locations of the testholes can be referenced on Drawings.

All testholes were completed using a truck-mounted power auger machine owned and operated by C.T. Soil & Materials Testing Inc. The drill unit is equipped with hollow and solid stem augers, and conventional soil sampling tools. The collection of surficial and subsurface soil samples was completed in areas deemed most likely to have been affected by potentially contaminating activities.

The investigative program included drilling and sampling of 12 testholes. The testholes were completed in the field using standard 83 mm I.D. hollow-stem flight augers to identify subsurface conditions by soil layers drilling and subsequent soil sample collection, and to prevent cross-contamination between varying depths. The testholes were advanced to a maximum depth of 7.60 m. below ground surface to collect a series of soil samples. Soil samples of a 60 cm length were collected by driving a split-spoon sampling device at regular intervals throughout the testhole advancement.

4.3 Testhole Locations

The testhole locations are provided below.

Table 4.1 Summary of Testhole Completion Depths

Testhole IDs	Depth (m)	APECs	Chemical Analysis	Media Investigated
12	6.10	APEC 1 Importation of Fill	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs	Soil
3	3.65	APEC 2 Former Wire & Iron Building	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,	Soil
9	7.60	APEC 3 Former Hardening Department	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs	Soil & groundwater
5	3.65	APEC 4 Former Paint Shop	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,	Soil
1 2	3.65 3.65	APEC 5 Former Iron Storage Building	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,	Soil
6	2.10	APEC 6 Exposed Railway Tie	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,	Soil
4	3.65	APEC 7 Industrial Tooling Company	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,	Soil & groundwater
7 10	6.10 6.10	APEC 8 North Industrial PCAs	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,	Soil & groundwater
8	6.10	APEC 9 West Adjacent Industrial Manufacturing PCA	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,	Soil & groundwater
11	6.10	APEC 10 South Adjacent PCAs	Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,	Soil

4.4 Soil Sampling

All soil samples were collected in accordance with environmental sampling protocols, and are outlined below:

- The split spoon sampler was cleaned prior to the collection of each sample.
- A new pair of nitrile gloves was used to handle each of the soil samples. For soils being analyzed for organics with higher regulatory limits (such as petroleum hydrocarbons (PHC) and benzene, toluene, ethylene, xylenes (BTEX), contact with clean gloves is acceptable, but such contact should be minimized.
- All samples collected were labeled in a clear, precise, and permanent way for proper identification in the field and for tracking in the laboratory.
- The soil samples retrieved during the investigation are examined, classified, and logged according to soil type, colour, consistency, and presence of visual and/or olfactory indicators of negative impact.
- Soil samples were sampled onsite and additionally were placed in labelled, resealable plastic Ziploc bags upon recovery and stored in coolers with ice packs at less than 10°C for field vapor screening and future analysis.
- Samples submitted for PHC and/or VOC analysis were placed in volume appropriate laboratory sample jars with Teflon-lined lids, as well sampled with a single use purgeable syringe provided by the laboratory into vails and subsequently stored in coolers with ice packs at less than 10°C prior to shipment and/or drop off to an external chemical testing laboratory. Samples submitted to for VOC analysis were not composited or mixed in the field. Samples were transferred directly into containers and containers contained zero headspace.
- No petroleum-based greases or solvents were used during drilling activities. All soil samples were collected in accordance with environmental sampling protocols to minimize loss of volatile organics and to ensure reliable and representative results.
- Soil samples deemed to be representative of the site conditions were collected and placed in laboratory supplied glass jars equipped with Teflon seals. The samples were selected based on visual/olfactory evidence of impacts, screening results or vertical depth.

- Once filled, sample containers were placed in ice filed cooler and during transport to the laboratory. Sample container labels included the job number, sample ID, parameters and chemical analysis, date, and time of collection. A chain of custody form was completed and accompanied with each sample shipment to the laboratory.

4.5 Soil Screening Instruments - Photo-Ionization Detectors (PID)

The following procedures were used to PID all collected soil samples during this investigation:

- A PID equipped with a 10.6 electron volt discharge lamp for field screening was used on the soil samples retrieved. The instruments detect a wide range of VOCs with an ionization potential less than 10.6 eV.
- Isobutylene was used as the calibration gas and the instrument was calibrate according to the manufacture's recommendation prior to use.
- All soil samples were placed into individual Ziplock bags labeled with the job number, and sample location.
- The sample was the separated into several pieces in the bag and allowed to temperature-equilibrate for approximately 15 to 30 minutes in the sun, allowing any VOCs which might be present in the soil to volatize out into the bag's headspace.
- The nozzle was placed inside the sealed bag, to measure the VOCs present, if any, in the headspace.
- The nozzle remained inside the bag for approximately 15 to 30 seconds or until the maximum reading has been recorded on the readout panel.
- The soil screening bags was not exposed to direct sunlight for an extended period

4.6 Monitoring Well Installment

The monitoring wells were installed in general accordance with the Ontario Water Resources Act-R.R.O. 1990, Regulation 903 – Amended to O. Reg. 128/03 and will be installed by a licensed well contractor. The monitoring wells were constructed using 25 mm or 32 mm diameter, Schedule 40, PVC riser pipe and number 10 slot size (0.25 mm) well screens. All monitoring wells were installed with 3.05 m long screens intercepting the groundwater table in the overburden to a maximum depth of 7.60 meters. The base of the well screens was sealed with PVC end caps. All well pipe connections are factory machined threaded flush couplings. The pipe components were pre-wrapped in plastic, which was removed prior to insertion in the

borehole to minimize the potential for contamination. No lubricants or adhesives were used in the construction of the monitoring well. The annular space around the well screens were backfilled with silica sand to an average height of 0.3 m above the top of the screen. Granular bentonite was placed in the borehole annulus from the top of the sand pack to approximately 0.3 m below grade. The monitoring wells were completed with flush mount well casings and cemented into place.

4.7 Monitoring Well Development

After the monitoring well installations, well development was conducted to remove particulates or fluids which may have collected in the screen or sand packing during well installation activities. Well development was completed using polyethylene tubing and inertial lift foot valves over the saturated portion of the well screen in downward 0.6 m lifts. Well development was considered complete in the field under the following conditions:

- Removal of three (3) well volumes, including sand pack.
- Post-surging, the monitoring well was developed dry three times; and
- Groundwater was clear and relatively free of particulates.

4.8 Water Level Measurements

Water levels were taken at required locations over a short time duration to aid in determining groundwater flow direction. A decontaminated interface probe was used to measure the depth of groundwater and presences of free product below the top of the monitoring well casing. Recorded groundwater levels were converted to elevations by subtracting the measured groundwater depth from the surveyed top of pipe elevation. To prevent cross-contamination between monitoring wells, the interface probes were decontaminated with a methanol rinse and rinsed with distilled water and sampled from probable least contaminated to most contaminated (should they be contaminated).

4.9 Groundwater Sample Collection

The following was completed during groundwater sample collection:

- Prior to sampling, the depths to groundwater in the monitoring wells were measured using a water level meter and groundwater was purged from each monitoring well.
- Groundwater purging activities were completed using low-flow methodology via dedicated LDPE tubing and a peristaltic pump at each monitoring well.

- New laboratory supplied containers were used to collect groundwater samples for the parameters of interest. Sampling glassware was prepared by Paracel, with the require preservative added to the parameter specific sample bottles. When filling the sample bottles, it was verified that the minimal level of particulate matter was entrained into the sample.
- Field filtering was conducted, as appropriate, for certain parameters. Filed filtering of dissolved metals and manganese was documented using dedicated 0.45-micron (um) filters.
- Methyl mercury samples were neither field filter nor laboratory filtered.
- Groundwater samples at each well were collected in order of least (VOCs) to most stable (metals). VOCs and PHCs sample containers were completely filled, with no headspace.

4.10 Laboratory Analysis

All representative soil samples collected during the investigation were submitted for laboratory analysis. Paracel Laboratories Ltd. is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA). For the Scope of Accreditation under CALA Membership Number 1262.

4.11 Impediments

No impediments were encountered during completion of the SCR. Adjustments made to the borehole/monitoring well locations were due to the presence of utilities, construction activities and/or traffic safety issues, however the location adjustments did not impact the overall investigation objectives.

5.0 REVIEW AND EVALUATION OF GEOLOGICAL CONDITIONS

5.1 Regional Geology

Based on a review of Essex County Drift Thickness, two (2) water wells that penetrated bedrock were recorded as having a drift depth of approximately 39 to 40 m in Windsor, Ontario. Based on information provided via the ERIS report; a geotechnical investigation which occurred 60 m north of the site, green limestone bedrock was encountered at approximately 36.7 m. The surficial geology for the RSC property and Phase One study area are consists of Glaciolacustrine silty clay. The soils in the area have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include silty loams with an impeding layer or soils with moderately fine to fine texture.

5.2 Site Specific Geology

The detailed soil profiles encountered in the testholes are provided on the attached testhole logs (Appendix C). Boundaries of soils indicated on the logs are intended to reflect transition zones for the purpose of environmental assessment and should not be interpreted as exact planes of geological change. A brief description of the soil stratigraphy at the Site, in order of depth, is summarized in the following sections. Cross sections were created using geological logs from selected newly installed testholes across the site. See drawings 29 – 42.

5.2.1 Surficial Material

The subsurface conditions at the project area consisted of asphaltic concrete and gravel to a maximum depth of 0.45 meters at all testholes except testhole 4. Underlaying this material all testholes encountered a mixed clay fill with sand and gravel, some locations encountered mixed debris (such as red brick or clay tile). Fill was encountered to a maximum depth of 1.80 meters.

5.2.2 Silty Clay

All testholes encountered mottled brown-grey, followed by brown then grey silty clay with embedded sand and gravel to the maximum depth of the investigation. All encountered silty clay is inferred to be native material.

5.3 Grain Size Analysis

Grain size analysis was performed on three (3) soil samples:

- Testhole/Monitoring well 7 from approximately 1.50 meters consisting of mottled brown-grey silty clay with embedded sand and gravel

- Testhole/Monitoring well 9 from approximately 3.8 meters consisting of brown silty clay with embedded sand and gravel
- Testhole/Monitoring well 11 from approximately 5.50 meters consisting of mottled brown-grey silty clay with embedded sand and gravel and

The grain size analysis indicates that the soil located on the Phase Two Property is primarily in the fine to medium grained.

5.4 Soil pH

As per Section 41(1) (b), the soil samples collected from the RSC Property are within the required to be within the range of 5 – 9 (surface soil) and 5 – 11 (subsurface soil). pH concentrations ranged from 6.45 to 9.63, which are within the required range of 5 – 9 (surface soil) and 5 – 11 (subsurface soil) to permit application of the O. Reg. 153/04 Standards.

5.5 Field Screening

All soil samples were screened in the field and again in the lab, for evidence of staining, odours, and sheen. At the time of sample collection and review, no staining, odours, or sheens were observed at the time of this investigation.

To provide a semi-quantitative assessment of the contaminant distributions at each location soil sample headspace screening was performed using the MiniRAE 3000. Measured concentrations ranged between 0 to 0.8 ppm which is considered negligible.

5.6 Elevation Survey

On August 12, 2025, relative static water level elevations of the geologic unit at the time of the investigation ranged from El. 179.43 meters to El. 177.61 meters above seal level (asl) which were corresponded to the geodetic benchmark No. 153-F as referenced in the "*City Of Windsor Bench Mark List'* (City of Windsor, 2025) with a measured elevation of 182.116 meters asl. This benchmark is located approximately 125 meters southeast of the site at 420 Devonshire Road, Windsor, Ontario with the official description "Postal Station at Corner of Assumption and Devonshire Street (Old Walkerville Post Office). Bolt in north stone foundation wall, 5.0 m from northwest corner and 0.3 m above ground (LAT, 42-19.5, LONG, 83-00.8). The following information in Table 5.1 has been provided in relation to the referenced benchmark.

Table 5.1 Elevation Survey

ID	Grade Elevation (m asl)	Screen Interval (m)	Water Level	Material Screened
1	180.80	-	-	-
2	180.86	-	-	-
3	181.08	-	-	-
4	181.24	-	-	-
5	181.32	-	-	-
6	180.86	-	-	-
7	180.89	174.84 - 177.84	177.24	Brown to grey silty clay with embedded sand and gravel
8	180.99	174.89 - 177.94	177.64	Brown to grey silty clay with embedded sand and gravel
9	181.13	174.42 - 177.47	179.43	Mottles brown-grey to brown followed by grey silty clay with embedded sand and gravel
10	180.77	174.67 – 177.72	177.26	Brown to grey silty clay with embedded sand and gravel
11	181.42	175.32 – 175.32	177.57	Mottles brown-grey to brown followed by grey silty clay with embedded sand and gravel
12	181.02	-	-	-
Notes: Statis water level measurements obtained on August 12, 2025				

6.0 REVIEW AND EVALUATION OF HYDROGEOLOGICAL CONDITIONS

Soil & Materials Engineering Inc. installed five (5) monitoring wells screened across the native silty clay. The screened intervals of the monitoring wells were selected based on inferred depth of groundwater identified during the drilling program. All monitoring wells were generally located straddling the groundwater table in order to evaluate the presence of potential light non-aqueous phase liquids. Groundwater levels were measured at each monitoring well using a decontaminated interface probe to measure the depth of groundwater.

6.1 Free Product

No LNAPL and/or DNAPL, including hydrocarbon film or sheen, was observed, or measured with an interface probe at the RSC Property during the ground water monitoring and sampling activities.

6.2 Aquifer Thickness

The investigation ranged from surface to completion of testholes to maximum depths of 7.6 meters. The unconfined aquifer is derived from the static water levels as collected in this investigation which ranged from 177.24 m to 179.43 m.

6.3 Soil Vapour Intrusion

On-site vapour intrusion is not considered a concern at the Phase Two Property as section 48(2) of the Regulation has been relied upon. As such no COC have been identified. Petroleum-impacted ground water was not noted during the Phase Two ESA and the field soil vapour screening indicated negligible concern for vapour intrusion.

6.4 Groundwater Flow and Hydraulic Gradient

Groundwater elevations were calculated based on the water level depths and geodetic survey data (as identified in section 5.6) The ground water flow direction is inferred to be to the northwest, as measured from static groundwater elevations from the five (5) monitoring wells at the RSC Property. Surface water would be by direct infiltration and flow into surrounding municipal drainage systems and storm sewers. Locally, the shallow ground water flow may be influenced by underground utility trenches, conduits, and structures, variations in soil type, and minor fluctuations in topography. The horizontal groundwater flow was calculated to be towards the northwest with a hydraulic gradient of 0.007 m/m. The vertical hydraulic gradient was not calculated as only one geologic unit was assessed.

7.0 REVIEW AND EVALUATION OF LABORATORY DATA

In accordance with the scope of work, chemical analyses were performed on selected soil samples. The selection of representative worst case soil samples from each testhole was based on field screening of visual and/or olfactory evidence of impacts, where observed.

7.1 O. Reg. 153/04 Soil – Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, SVOCs, PHCs, VOCs

All other concentrations of metals, SVOCs, PHCs, and VOCs measured in the analyzed samples were below or reported non-detect when compared to Table 3 for Residential/Parkland and Institutional Land Use with non-potable groundwater in medium-fine grained soil conditions. The soil results are summarized in Appendix A Table 1.1 to 1.3.

- Soil sample 1/0.5 had an VOC exceedance in Trichloroethane of 14.6 ug/g (0.52 ug/g). This sample additionally had SVOC exceedances in anthracene of 1.39 ug/g (0.74 ug/g), benzo[a]anthracene of 1.07 ug/g (0.63 ug/g), benzo[a]pyrene of 1.87 ug/g (0.3 ug/g), benzo[b]fluoranthene of 2.07 ug/g (0.78 ug/g), benzo[k]fluoranthene of 1.19 ug/g (0.78 ug/g), dibenzo[a,h]anthracene of 0.33 ug/g (0.1 ug/g), fluoranthene of 3.30 ug/g (0.69 ug/g), and indeno[1,2,3-cd]pyrene 1.17 ug/g (0.48 ug/g).
- Soil sample 2/0.5 had a metal exceedance in boron, available of 2.2 ug/g (1.5 ug/g). This sample additionally had a VOC exceedance in Trichloroethane of 1.12 ug/g (0.52 ug/g).
- Soil sample 4/0.5 had a metal exceedance in molybdenum of 46.7 ug/g (6.9 ug/g).
- Soil sample 6/1.0 had two metal exceedances, one in boron, available of 1.6 ug/g (1.5 ug/g) and another for molybdenum with an exceedance of 7.8 ug/g (6.9 ug/g). Additionally, the sample had a VOC exceedance in Trichloroethane of 1.90 ug/g (0.52 ug/g).
- Soil sample 10/1.0 had metal exceedances in Arsenic of 19.2 ug/g (18 ug/g), Cadmium of 1.7 ug/g (1.2 ug/g), Lead of 321 ug/g (120 ug/g), Molybdenum of 38.2 ug/g (6.9 ug/g), and Zinc of 686 ug/g (340 ug/g). Additionally, SVOC exceedances for Benzo[b]fluoranthene of 1.38 ug/g (0.78 ug/g) and Fluoranthene of 2.19 ug/g (0.69 ug/g) were reported.
- Soil sample 8/1.5 had metal exceedances in Barium of 940 ug/g (390 ug/g), Boron, Available 2.3 ug/g (1.5 ug/g), Cadmium of 3.2 ug/g (1.2 ug/g), Lead of 291 ug/g (120 ug/g), Molybdenum of 86.6 ug/g (6.9 ug/g), and Zinc of 1390 ug/g (340 ug/g). The sample had a VOC exceedance for Trichloroethane of 1.04 ug/g (0.52 ug/g). The sample additionally had PHC exceedances for F2 PHCs (C10-C16) of 549 ug/g

(150 ug/g), F3 PHCs (C16-C34) of 8310 ug/g (1300 ug/g), and F4G PHCs (gravimetric) of 10100 ug/g (5600 ug/g). Finally, the sample also had SVOC exceedances in Acenaphthylene of 0.33 ug/g (0.17 ug/g), Benzo[a]anthracene of 1.28 ug/g (0.63 ug/g), Benzo[a]pyrene of 1.36 ug/g (0.30 ug/g), Benzo[b[fluoranthene of 1.36 ug/g (0.78 ug/g), Fluoranthene of 4.74 ug/g (0.69 ug/g), and Indeno [1,2,3-cd] pyrene of 0.92 ug/g (0.48 ug/g).

- Soil sample 8/3.5 had a PHC exceedance for F2 PHCs (C10-C16) of 224 ug/g (150 ug/g).
- Soil sample 7/1.0 had a metal exceedance in Molybdenum of 8.6 ug/g (6.9 ug/g).
- Soil sample 9/1.0 had metal exceedances in boron, available of 1.6 ug/g (1.5 ug/g), Cadmium of 1.5 ug/g (1.2 ug/g), Lead of 122 ug/g (120 ug/g), Molybdenum of 7.4 ug/g (6.9 ug/g), and Zinc of 510 ug/g (340 ug/g). Additionally, the sample reported a VOC exceedance for Trichloroethylene of 1.27 ug/g (0.52 ug/g).
- Soil sample DUP-4 reported a metal exceedance in Molybdenum of 9.1 ug/g (6.9 ug/g).

7.2 O. Reg. 153/04 Groundwater – Metals, As, Sb, Se, B-HWS, Cr (VI), Hg, pH, SVOCs, PHCs, VOCs

All concentrations of metals, pH, SVOCs, PHCs, VOCs measured in the analyzed samples were below or reported non-detect when compared to Table 3 for non-potable groundwater in medium-fine grained soil conditions. The groundwater results are summarized in Appendix A Table 2.1.

7.3 O. Reg. 153/04 Soil – Elevated Detection Limits

Due to elevated concentrations of detected contaminants in these samples, minimum detection levels of several SVOCs were unachievable resulting in elevated detection limits. Therefore, the samples noted below were reported as “non-detect” for the associated parameters but are deemed impacted and in exceedance to the applicable SCS.

- Soil sample 10/1.0 encountered elevated detection limits for the following parameters: Dinitrotoluene (2,4 & 2,6), 3, 3’-Dichlorobenzidine, 4-Chloroaniline, Acenaphthylene, Anthracene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[k]fluoranthene, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Diethylphthalate, Dimethylphthalate, Dibenzo[a,h]anthracene, Indeno [1,2,3-cd] pyrene, Naphthalene, Phenanthrene, and Pentachlorophenol.

- Soil sample 8/1.5 encountered elevated detection limits for the following parameters: Dibenzo[a,h]anthracene
- Soil sample 7/1.0 encountered elevated detection limits for the following parameters: Dinitrotoluene (2,4 & 2,6), 3, 3'-Dichlorobenzidine, 4-Chloroaniline, Acenaphthylene, Anthracene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Diethylphthalate, Dimethylphthalate, Dibenzo[a,h]anthracene, Fluoranthene, Indeno [1,2,3-cd] pyrene, Naphthalene, and Pentachlorophenol.
- Soil sample DUP-4 encountered elevated detection limits for the following parameters: Dinitrotoluene (2,4 & 2,6), 3, 3'-Dichlorobenzidine, 4-Chloroaniline, Acenaphthylene, Anthracene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Diethylphthalate, Dimethylphthalate, Dibenzo[a,h]anthracene, Fluoranthene, Indeno [1,2,3-cd] pyrene, Naphthalene, and Pentachlorophenol.

8.0 CONCLUSIONS

Based on the findings of the Phase Two ESA, if residential development is to be pursued, additional environmental site assessment and remedial work will be required to address soil impacts that exceed the Site Condition Standards outlined in O. Reg. 153/04, Table 3 for Residential/Parkland/Institutional land use. In accordance with paragraph 3 of subsection 168.4(3.1) of the Environmental Protection Act (EPA), a Record of Site Condition (RSC) cannot be filed based on the current Phase Two investigation results and the existing soil conditions.

Soil & Materials Engineering Inc. has conducted this Phase Two ESA in accordance with current industry standards and practices. The information presented in this report is based on a limited soil sampling and chemical testing program. The investigation was restricted to determining if measured levels of the tested parameters would be found in the subsurface at a specific number of accessible testhole locations at the site, rather than defining the full extent of contamination. This information was collected at specific locations, and the subsurface conditions may vary at other locations on the site. The results of this Phase Two ESA should, in no way, be construed as a guarantee that the site is free from any and all contamination from previous or current land uses and practices. Soil & Materials Engineering Inc. has prepared this report using information understood to be factual and correct, we assume no responsibility for conditions arising from information or facts which were concealed or not fully disclosed to Soil & Materials Engineering Inc.

9.0 SIGNATURES

Soil & Materials Engineering Inc. is a consulting firm registered with the Professional Engineers Ontario (PEO). The firm is headed by a Professional Engineer with over 30 years of experience in geotechnical and geo-environmental investigations. We trust this report is presented in a format suitable for your purposes. However, if questions arise concerning any aspect of this report, please do not hesitate to contact us.

Sincerely,

Soil & Materials Engineering Inc.

Prepared by: T. Hooley, B.Sc. (Env.)
Environmental Scientist

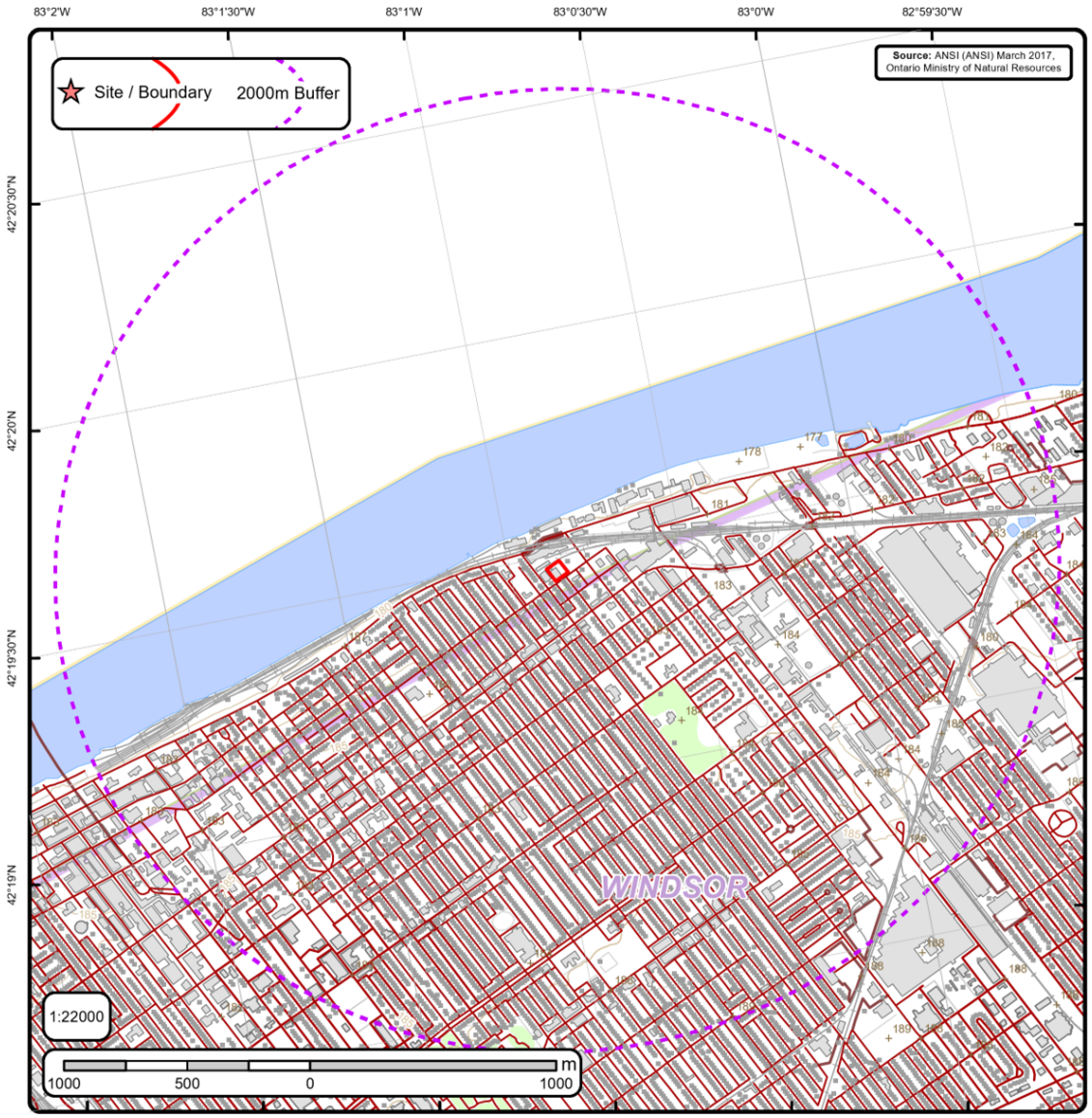
Final Review by: T. O'Dwyer, P.Eng.
Consulting Engineer

Enclosures

10.0 REFERENCES

- Guidance for Environmental Site Assessment under Ontario Regulation 153/04 (as amended). April 2011. Association of Professional Geoscientist of Ontario.
- Canadian Standard Association (CSA) Standard z769-00 reaffirmed 2016, CSA-z769-oo (R2016) “Phase II environmental Site Assessment”
- Ontario Regulation 406/19 On-Site and Excess Soil Management. . Environmental Protection Act, R.S.O. 1990, c. E.19.
- Ontario Regulation 153/04 as amended by Ontario Regulation 511/09. Environmental Protection Act, R.S.O. 1990, Part XV.1
- “Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario”, Revised December 1996, Ministry of Environment and Energy
- Protocol for Analytical Method Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Ave”, March 9, 2004, amended as of July 1, 2011
- City of Windsor. (2025, April 24). *City of Windsor Bench Mark List* (Map M-1413). https://www.citywindsor.ca/documents/visitors/maps/m1413-cow-bench-mark-list.pdf

8/25/2025



Legend

- Phase One RSC Property
- Spot Height
- Building Point
- Towers
- Utility Site Point
- Misc. Line
- Railroads
- Roads
- Trail
- Transportation Structure
- Utility Line
- Water Structure
- Drainage Line Feature
- River or Stream
- Airports
- Tanks
- Building to Scale
- Contour Line
- Pit or Quarry
- Waterbody
- Wetlands
- Concession
- Lots
- Municipality
- Land Ownership
- Wooded Area
- Conservation Authority
- Conservation Area
- Municipal Park
- Provincial Park
- National Park
- Nature Reserve
- ANSI Area

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
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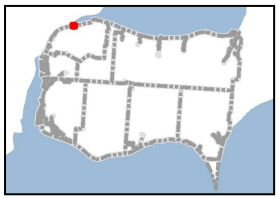
T: (510) 966-8863 F: (519) 966-8870

Project:	Phase Two Record of Site Condition
Location:	1880 Assumption Street, Windsor, ON
Job Number:	24E098
Client:	Radical Capital Management Inc.
Revisions:	00

Title: Site Map

Notes



Drawing: 1

8/25/2025

Legend

- Site
- Study Area
- PCA Contributes to an APEC
- PCA Does not contribute to an APEC

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
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Title:	Study Area

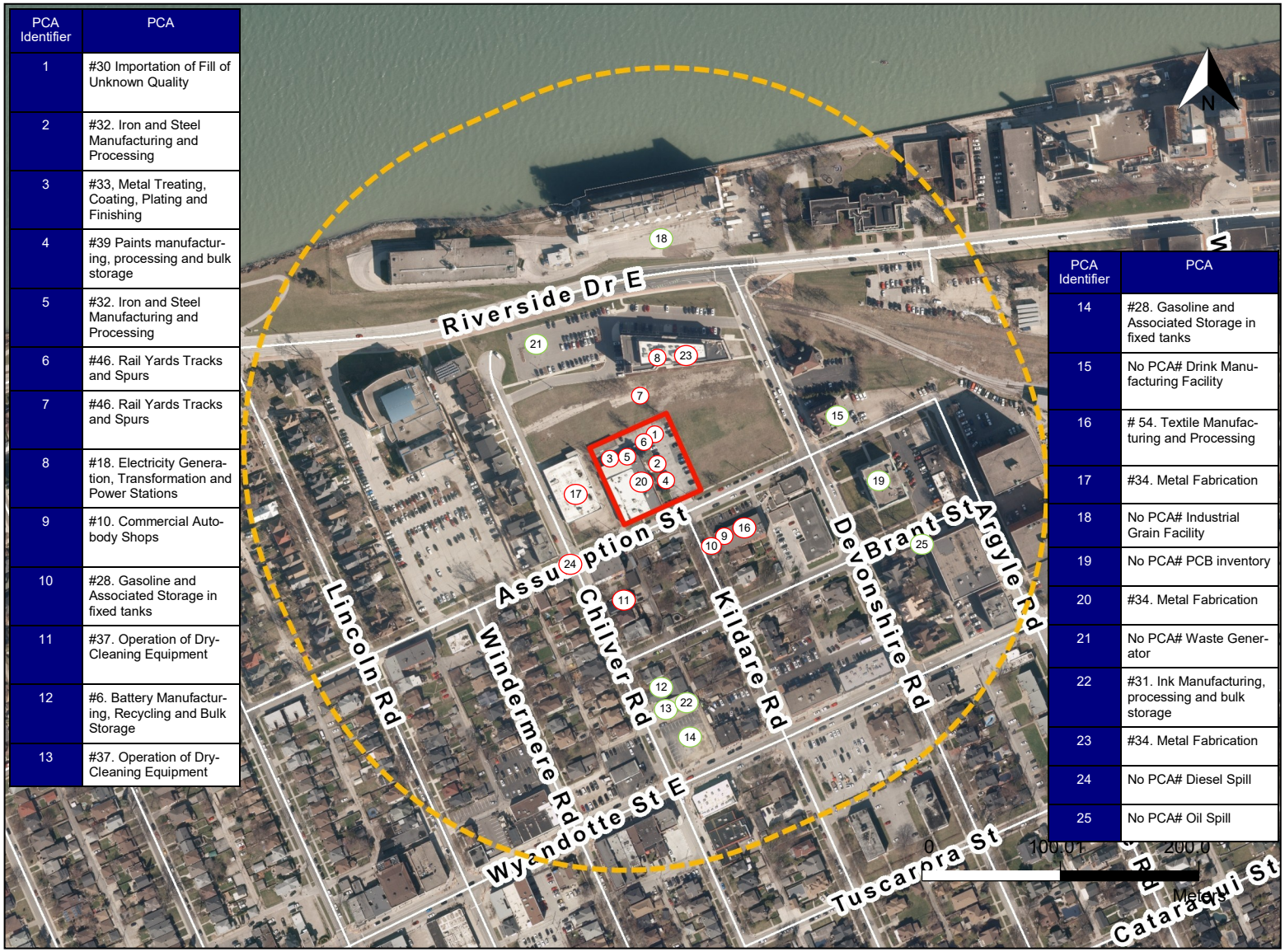
Project:	Phase Two Record of Site Condition
Location:	1880 Assumption Street, Windsor, ON
Job Number:	24E099
Client:	Radical Capital Management Inc.
Revisions:	00

Notes

Drawing: 2

8/25/2025

PCA Identifier	PCA
1	#30 Importation of Fill of Unknown Quality
2	#32. Iron and Steel Manufacturing and Processing
3	#33, Metal Treating, Coating, Plating and Finishing
4	#39 Paints manufacturing, processing and bulk storage
5	#32. Iron and Steel Manufacturing and Processing
6	#46. Rail Yards Tracks and Spurs
7	#46. Rail Yards Tracks and Spurs
8	#18. Electricity Generation, Transformation and Power Stations
9	#10. Commercial Autobody Shops
10	#28. Gasoline and Associated Storage in fixed tanks
11	#37. Operation of Dry-Cleaning Equipment
12	#6. Battery Manufacturing, Recycling and Bulk Storage
13	#37. Operation of Dry-Cleaning Equipment



PCA Identifier	PCA
14	#28. Gasoline and Associated Storage in fixed tanks
15	No PCA# Drink Manufacturing Facility
16	# 54. Textile Manufacturing and Processing
17	#34. Metal Fabrication
18	No PCA# Industrial Grain Facility
19	No PCA# PCB inventory
20	#34. Metal Fabrication
21	No PCA# Waste Generator
22	#31. Ink Manufacturing, processing and bulk storage
23	#34. Metal Fabrication
24	No PCA# Diesel Spill
25	No PCA# Oil Spill

Legend

- Site
- Study Area
- PCA Contributes to an APEC
- PCA Does not contribute to an APEC

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, Ontario, N8W 5S6
T: (510) 966-8863 F: (519) 966-8870

Title: Phase One ESA Study Area and Potentially Contaminating Activities

Project: Phase Two Record of Site Condition
Location: 1880 Assumption Street, Windsor, ON
Job Number: 24E099
Client: Radical Capital Management Inc.
Revisions: 00

Notes

Drawing: 3

8/25/2025

Legend

Site

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, Ontario, N8W 5S6
T: (510) 966-8863 F: (519) 966-8870

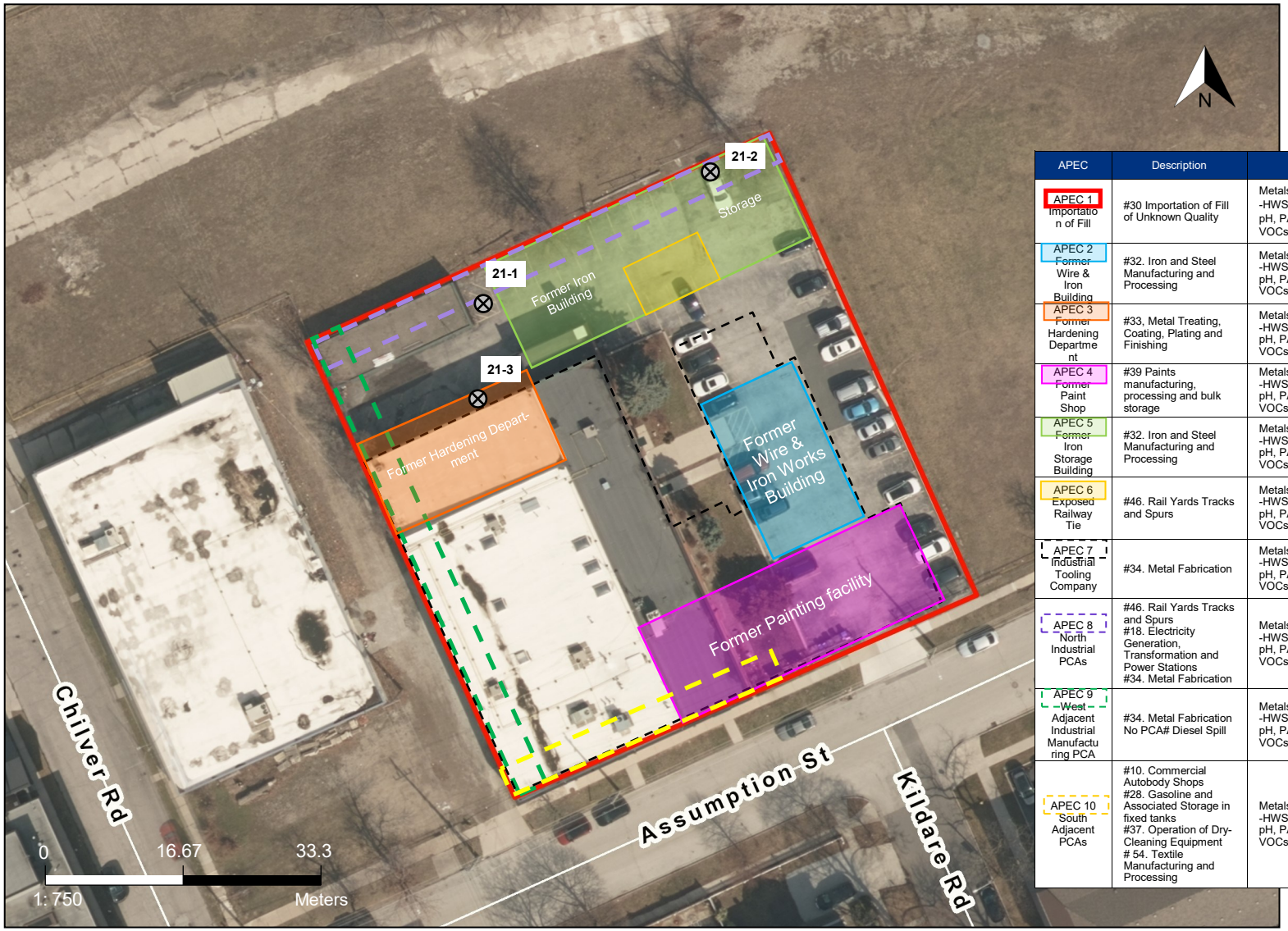
Title:	Site Plan

Project:	Phase Two Record of Site Condition
Location:	1880 Assumption Street, Windsor, ON
Job Number:	24E099
Client:	Radical Capital Management Inc.
Revisions:	00

Notes

Drawing: 4

8/25/2025



Legend

- Site
- 2021 Limited Soil Investigation Testhole

APEC	Description	COPCs
APEC 1 Importation of Fill	#30 Importation of Fill of Unknown Quality	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs
APEC 2 Former Wire & Iron Building	#32. Iron and Steel Manufacturing and Processing	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 3 Former Hardening Department	#33, Metal Treating, Coating, Plating and Finishing	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs
APEC 4 Former Paint Shop	#39 Paints manufacturing, processing and bulk storage	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 5 Former Iron Storage Building	#32. Iron and Steel Manufacturing and Processing	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 6 Exposed Railway Tie	#46. Rail Yards Tracks and Spurs	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 7 Industrial Tooling Company	#34. Metal Fabrication	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 8 North Industrial PCAs	#46. Rail Yards Tracks and Spurs #18. Electricity Generation, Transformation and Power Stations #34. Metal Fabrication	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 9 West Adjacent Industrial Manufacturing PCA	#34. Metal Fabrication No PCA# Diesel Spill	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 10 South Adjacent PCAs	#10. Commercial Autobody Shops #28. Gasoline and Associated Storage in fixed tanks #37. Operation of Dry-Cleaning Equipment # 54. Textile Manufacturing and Processing	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,

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Title: Areas of Potential Environmental Concern (APEC)

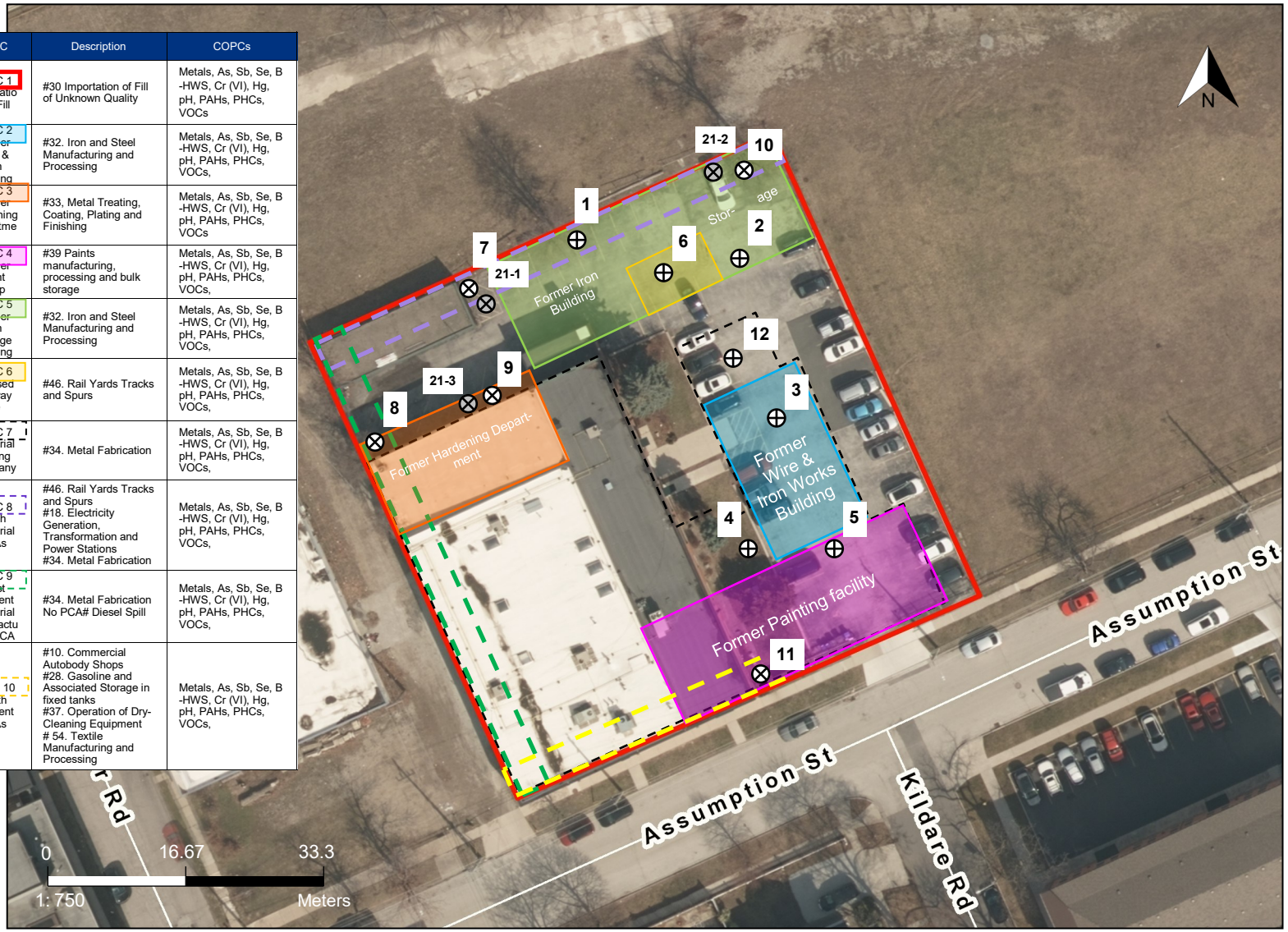
Project: Phase Two Record of Site Condition
Location: 1880 Assumption Street, Windsor, ON
Job Number: 24E099
Client: Radical Capital Management Inc.
Revisions: 00

Notes

Drawing: 5

8/25/2025

APEC	Description	COPCs
APEC 1 Importation of Fill	#30 Importation of Fill of Unknown Quality	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs
APEC 2 Former Wire & Iron Building	#32. Iron and Steel Manufacturing and Processing	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 3 Former Hardening Department	#33, Metal Treating, Coating, Plating and Finishing	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs
APEC 4 Former Paint Shop	#39 Paints manufacturing, processing and bulk storage	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 5 Former Iron Storage Building	#32. Iron and Steel Manufacturing and Processing	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 6 Exposed Railway Tie	#46. Rail Yards Tracks and Spurs	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 7 Industrial Tooling Company	#34. Metal Fabrication	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 8 North Industrial PCAs	#46. Rail Yards Tracks and Spurs #18. Electricity Generation, Transformation and Power Stations #34. Metal Fabrication	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 9 West Adjacent Industrial Manufacturing PCA	#34. Metal Fabrication No PCA# Diesel Spill	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,
APEC 10 South Adjacent PCAs	#10. Commercial Autobody Shops #28. Gasoline and Associated Storage in fixed tanks #37. Operation of Dry-Cleaning Equipment # 54. Textile Manufacturing and Processing	Metals, As, Sb, Se, B -HWS, Cr (VI), Hg, pH, PAHs, PHCs, VOCs,



Legend

- Site
- 2021 Limited Soil Investigation Testhole
- 2025 Phase Two ESA Testhole
- 2025 Phase Two ESA Testhole/Monitoring Well

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
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T: (510) 966-8863 F: (519) 966-8870

Title: Testhole and Groundwater Monitoring Well Locations

Project: Phase Two Record of Site Condition
Location: 1880 Assumption Street, Windsor, ON
Job Number: 24E099
Client: Radical Capital Management Inc.
Revisions: 00

Notes

Drawing: 6

8/25/2025

Legend

- Site
- 2021 Limited Soil Investigation Testhole
- 2025 Phase Two ESA Testhole
- 2025 Phase Two ESA Testhole/Monitoring Well
- Sample Exceeds O. Reg. 153/04 Table 3
- Sample Below/Non-Detect O. Reg. 153/04 Table 3

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, Ontario, N8W 5S6
T: (510) 966-8863 F: (519) 966-8870

Title: O. Reg. 153/04 Table 3 RPI med-fine grained Metal Soil Exceedances

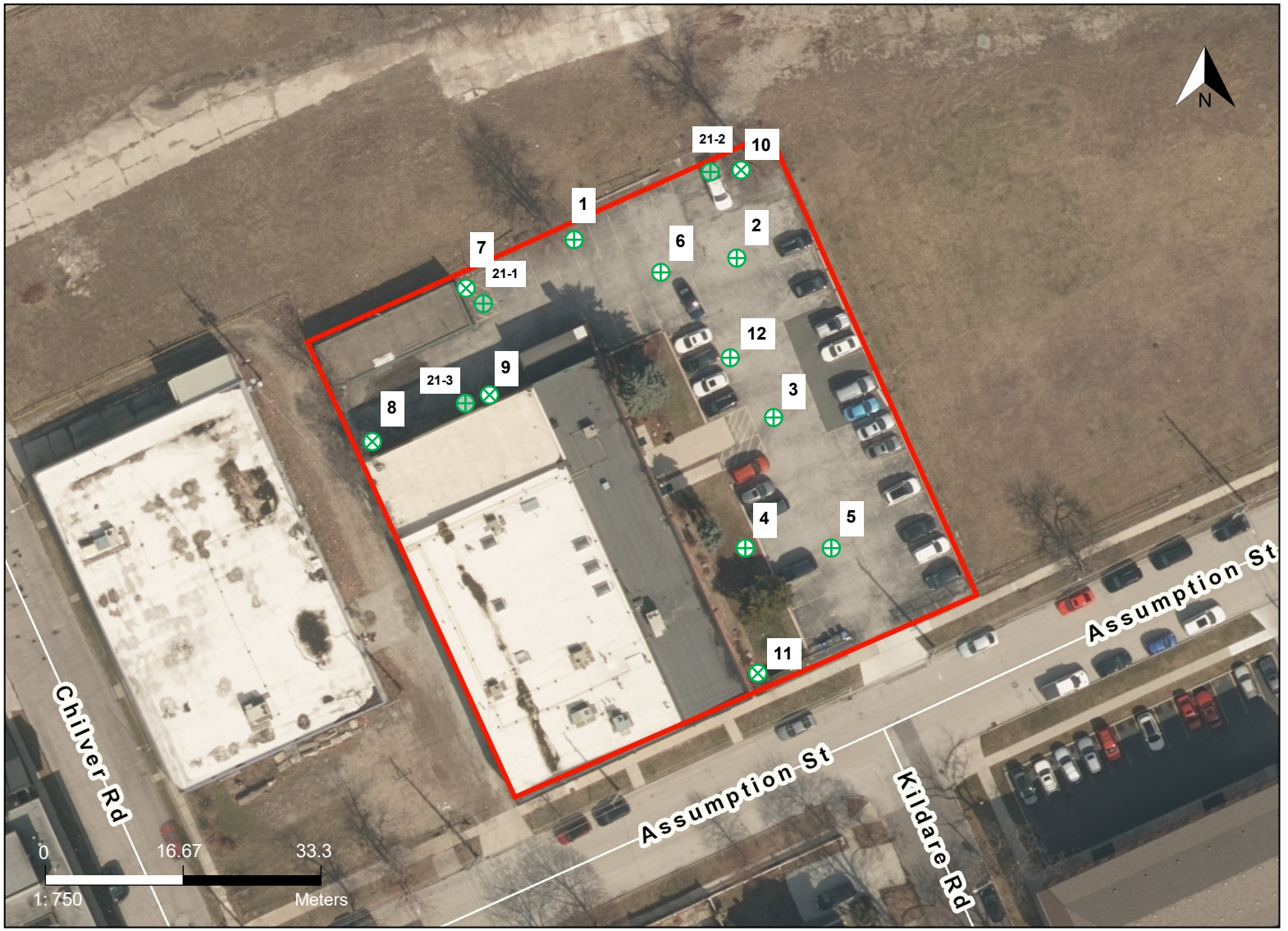
Project: Phase Two Record of Site Condition
Location: 1880 Assumption Street, Windsor, ON
Job Number: 24E099
Client: Radical Capital Management Inc.
Revisions: 00

Notes

Metals, As, Sb, Se, B-HWS, Cr (VI), Hg hereinafter referred to as "Metals"

Drawing: 7

8/25/2025



Legend

- Site
- 2021 Limited Soil Investigation Testhole
- 2025 Phase Two ESA Testhole
- 2025 Phase Two ESA Testhole/Monitoring Well
- Sample Exceeds O. Reg. 153/04 Table 3
- Sample Below/Non-Detect O. Reg. 153/04 Table 3

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, Ontario, N8W 5S6
T: (510) 966-8863 F: (519) 966-8870

Title: O. Reg. 153/04 Table 3 RPI med-fine grained pH Soil Exceedances

Project: Phase Two Record of Site Condition
Location: 1880 Assumption Street, Windsor, ON
Job Number: 24E099
Client: Radical Capital Management Inc.
Revisions: 00

Notes

Drawing: 8

8/25/2025

Legend

- Site
- 2021 Limited Soil Investigation Testhole
- 2025 Phase Two ESA Testhole
- 2025 Phase Two ESA Testhole/Monitoring Well
- Sample Exceeds O. Reg. 153/04 Table 3
- Sample Below/Non-Detect O. Reg. 153/04 Table 3

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, Ontario, N8W 5S6
T: (510) 966-8863 F: (519) 966-8870

Title:	O. Reg. 153/04 Table 3 RPI med-fine grained VOC Soil Exceedances

Project:	Phase Two Record of Site Condition
Location:	1880 Assumption Street, Windsor, ON
Job Number:	24E099
Client:	Radical Capital Management Inc.
Revisions:	00

Notes

Drawing: 9

8/25/2025

Legend

- Site
- 2021 Limited Soil Investigation Testhole
- 2025 Phase Two ESA Testhole
- 2025 Phase Two ESA Testhole/Monitoring Well
- Sample Exceeds O. Reg. 153/04 Table 3
- Sample Below/Non-Detect O. Reg. 153/04 Table 3

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, Ontario, N8W 5S6
T: (510) 966-8863 F: (519) 966-8870

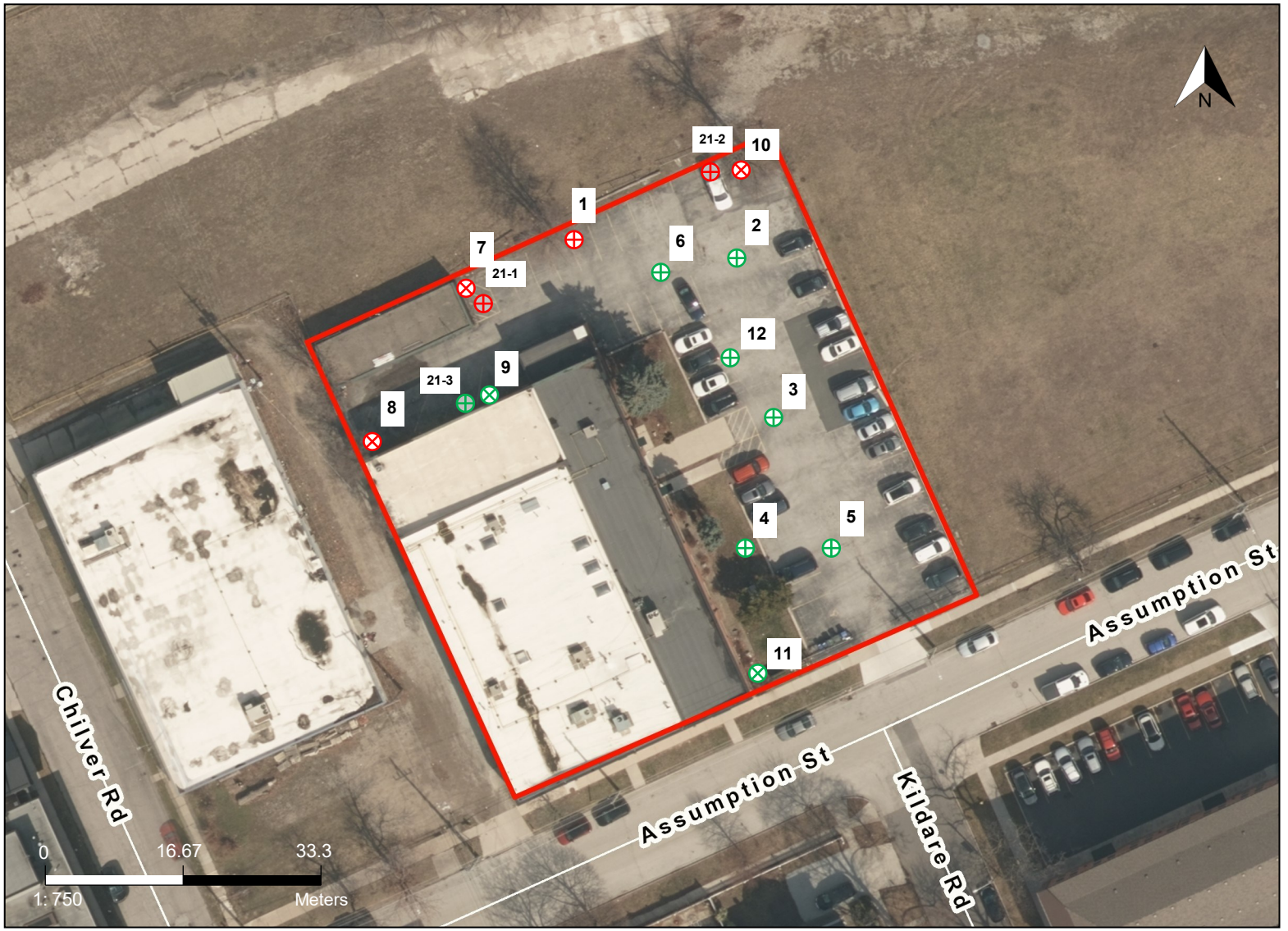
Title: O. Reg. 153/04 Table 3 RPI med-fine grained PHC Soil Exceedances

Project:	Phase Two Record of Site Condition
Location:	1880 Assumption Street, Windsor, ON
Job Number:	24E099
Client:	Radical Capital Management Inc.
Revisions:	00

Notes

Drawing: 10

8/25/2025



Legend

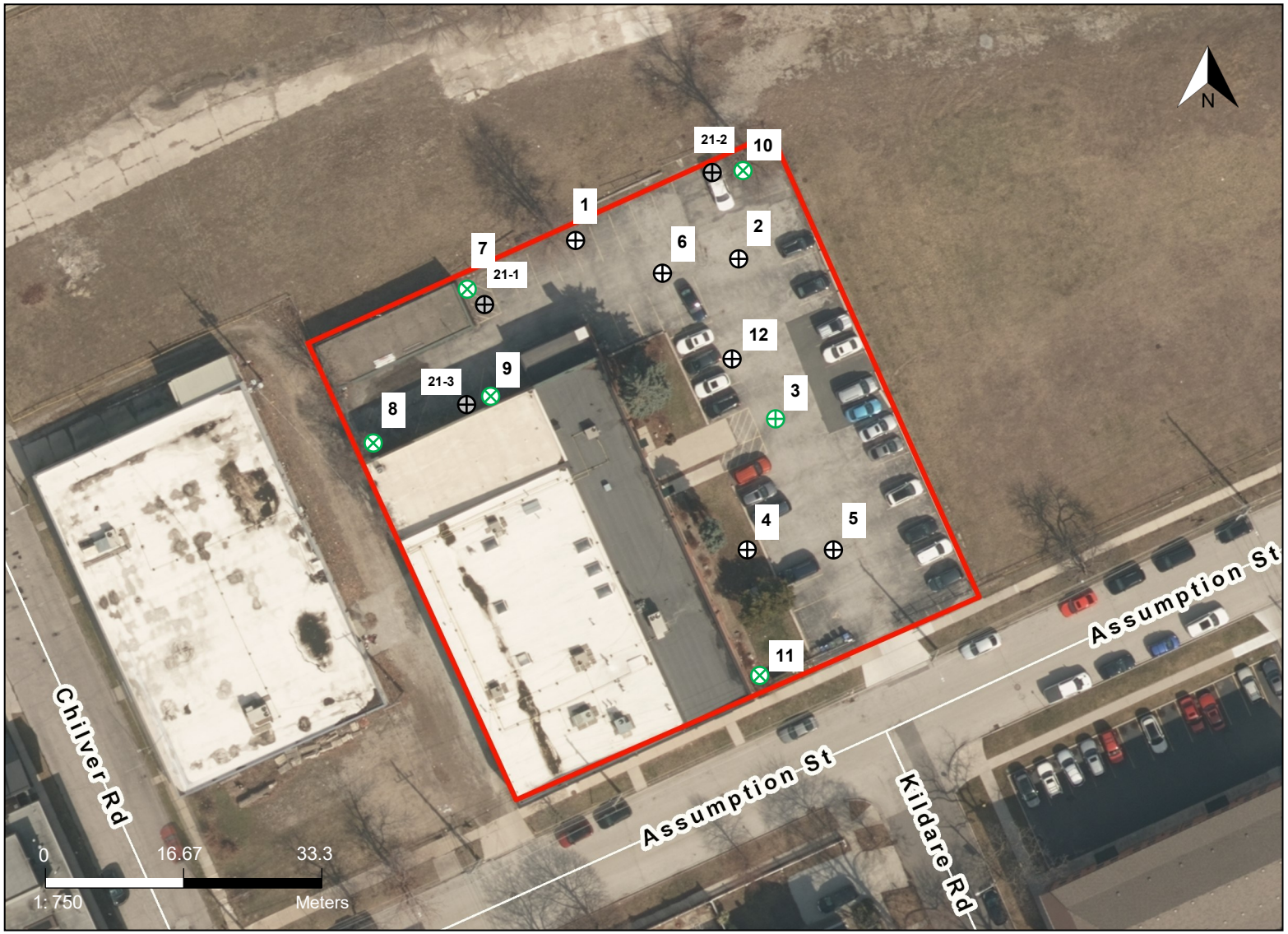
- Site
- 2021 Limited Soil Investigation Testhole
- 2025 Phase Two ESA Testhole
- 2025 Phase Two ESA Testhole/Monitoring Well
- Sample Exceeds O. Reg. 153/04 Table 3
- Sample Below/Non-Detect O. Reg. 153/04 Table 3

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, Ontario, N8W 5S6
T: (510) 966-8863 F: (519) 966-8870

Title: O. Reg. 153/04 Table 3 RPI med-fine grained SVOC Soil Exceedances

Project:	Phase Two Record of Site Condition
Location:	1880 Assumption Street, Windsor, ON
Job Number:	24E099
Client:	Radical Capital Management Inc.
Revisions:	00

Notes



Legend

- Site
- 2021 Limited Soil Investigation Testhole
- 2025 Phase Two ESA Testhole
- 2025 Phase Two ESA Testhole/Monitoring Well
- Sample Exceeds O. Reg. 153/04 Table 3
- Sample Below/Non-Detect O. Reg. 153/04 Table 3

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, Ontario, N8W 5S6
T: (510) 966-8863 F: (519) 966-8870

Title: O. Reg. 153/04 Table 3 non-potable groundwater for medium-fine grained Groundwater Exceedances in metals, pH, VOCs, PHCs and SVOC

Project: Phase Two Record of Site Condition
Location: 1880 Assumption Street, Windsor, ON
Job Number: 24E099
Client: Radical Capital Management Inc.
Revisions: 00

Notes

APPENDIX A

Analytical Summary Tables

General Notes on Analytical Summary Tables

Inorganic Parameters: metals, metals hydrides, pH.

Organic Parameters: PHCs F1 to F4, VOCs, SVOCs

ND - None Detect

NV - No Value

%REC: Percent recovery

MDL: Method Detection Limit

RL = MOE 2011 Analytical Protocol Reporting Limit

DUP = Quality Assurance/Quality Control Duplicate Sample

Soil results are reported on a dry weight basis unlesss otherwise noted.

Ontario Ministry of Environemnt, Conservation and Parks (MECP), formerly the Ministry of Environment and Climate Change (MOECC), formerly the Ministry of Environment (MOE)

These tables represent a summary of the data presented in the Laboratory Certificate of Analysis for convenience purposes only

This summary is to be use in conjuction with, not as a replacement of the Laboratory Ceriticate of Analysis which contains all QA/QC information

Notes on Soil Analytical Summary Tables

All soil units are in micgrograms per gram (ug/g) except where indicated otherwise

If reported, Electrical Conductivity (EC) soil units are in MicroSiemens per cm (µS/cm)

If reported, Sodium Adsorption Ratio (SAR) does not have units

If reported, soil pH: 5 - 9 pH units for surface soil (0 - 1.50 m)

If reported, soil pH: 5 - 11 pH units for subsurface (> 1.50 m)

exceedance	MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA' (April 2011). O. Reg. 153/04 Table 3 Residential/Parkland/ Institutional land use in medium- fine grained soil conditions (Table 3 RPI)
	Contaminant concentrations prevented the laboratories ability to achieve analysis of the method detection limit (MDL), resulting in an elevated reporting limit. However, sample had additional exceedances in other paramters compared to the MDL and are considered to exceed the site condition standard (SCS)

Notes on Groundwater Analytical Summary Tables

All soil units are in micgrograms per liter (ug/L) except where indicated otherwise

exceedance	MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA' (April 2011). O. Reg. 153/04 Table 3 non-potable groundwater in medium- fine grained soil conditions (Table 3 RPI)

TABLE 1.1
Phase Two ESA
1880 Assumption Street, Windsor, Ontario
JOB NO. 24E099

Parameter	MDL	Regulation	Sample												
		Reg 153/04 -T3 Res/Park, fine	1/0.5 2520173-01	1/5.0 2520173-02	2/0.5 2520173-03	2/2.5 2520173-04	DUP1 2520173-13	3/0.5 2520173-05	3/2.5 2520173-06	4/0.5 2520173-07	4/2.0 2520173-08	5/0.5 2520173-09	5/2.5 2520173-10	6/1.0 2520173-11	6/2.5 2520173-12
Sample Date (m/d/y)									05/08/2025						
Physical Characteristics															
% Solids	0.1		79.7	85.2	78.9	80.5	82.7	81.3	81.8	84.2	84.4	84.0	84.1	75.2	82.3
General Inorganics															
pH	0.05		7.28	7.57	6.45	N/A	N/A	7.81	N/A	7.45	N/A	7.78	N/A	6.91	N/A
Metals															
Antimony	1.0	7.5 ug/g dry	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	N/A	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.7	ND (1.0)
Arsenic	1.0	18 ug/g dry	8.0	12.0	8.6	9.7	12.1	8.5	N/A	16.4	11.0	7.0	6.8	15.9	9.4
Barium	1.0	390 ug/g dry	93.8	156	103	114	114	76.4	N/A	109	87.4	105	82.6	135	125
Beryllium	0.5	5 ug/g dry	0.9	1.0	0.9	1.1	1.1	0.8	N/A	0.8	1.1	0.7	0.6	1.0	1.1
Boron, available	0.5	1.5 ug/g dry	1.0	0.5	2.2	0.8	0.5	1.1	N/A	1.1	0.6	0.7	ND (0.5)	1.5	0.8
Boron	5.0	120 ug/g dry	9.9	16.2	10.7	12.4	16.0	8.5	N/A	12.3	16.1	9.7	14.7	12.6	10.2
Cadmium	0.5	1.2 ug/g dry	ND (0.5)	ND (0.5)	ND (0.5)	0.5	ND (0.5)	ND (0.5)	N/A	1.1	ND (0.5)	ND (0.5)	ND (0.5)	0.8	ND (0.5)
Chromium (VI)	0.2	10 ug/g dry	ND (0.2)	0.4	0.4	0.4	0.4	0.4	N/A	ND (0.2)	0.9	0.5	0.3	0.2	0.4
Chromium	5.0	160 ug/g dry	27.1	36.6	25.0	35.9	38.0	27.8	N/A	139	32.8	26.1	22.8	35.4	33.3
Cobalt	1.0	22 ug/g dry	10.3	12.7	11.9	11.4	14.9	10.9	N/A	15.9	13.3	8.6	8.6	12.1	12.7
Copper	5.0	180 ug/g dry	17.2	41.7	18.8	22.6	26.1	15.0	N/A	36.7	27.1	15.2	15.5	39.5	22.4
Lead	1.0	120 ug/g dry	15.8	62.0	23.6	20.6	19.2	18.2	N/A	113	23.5	18.4	8.7	99.9	15.9
Mercury	0.1	1.8 ug/g dry	ND (0.1)	ND (0.1)	0.1	ND (0.1)	ND (0.1)	ND (0.1)	N/A	0.1	ND (0.1)	ND (0.1)	ND (0.1)	0.1	ND (0.1)
Molybdenum	1.0	6.9 ug/g dry	3.5	6.4	2.1	2.7	3.0	2.2	N/A	46.7	5.1	3.8	2.3	7.6	2.5
Nickel	5.0	130 ug/g dry	20.7	32.8	17.8	28.0	34.6	19.6	N/A	25.8	33.3	18.5	21.6	22.4	28.7
Selenium	1.0	2.4 ug/g dry	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	N/A	1.5	ND (1.0)	ND (1.0)	ND (1.0)	1.1	ND (1.0)
Silver	0.3	25 ug/g dry	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	N/A	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	1.0	1 ug/g dry	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	N/A	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Uranium	1.0	23 ug/g dry	1.3	1.1	1.3	1.2	1.2	1.1	N/A	ND (1.0)	1.3	1.0	1.1	1.4	1.3
Vanadium	10.0	86 ug/g dry	39.7	43.6	36.2	45.4	49.2	39.4	N/A	66.9	45.0	35.9	31.4	43.5	45.6
Zinc	20.0	340 ug/g dry	72.2	155	90.4	104	82.5	57.3	N/A	206	76.4	63.8	41.6	296	71.6
Volatiles															
Acetone	0.50	28 ug/g dry	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	N/A	ND (0.50)	ND (0.50)	N/A	ND (0.50)	N/A	ND (0.50)	N/A
Benzene	0.02	0.17 ug/g dry	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	ND (0.02)	ND (0.02)	N/A	ND (0.02)	N/A	ND (0.02)	N/A
Bromodichloromethane	0.05	13 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Bromoform	0.05	0.26 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Bromomethane	0.05	0.05 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Carbon Tetrachloride	0.05	0.12 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Chlorobenzene	0.05	2.7 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Chloroform	0.05	0.18 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Dibromochloromethane	0.05	9.4 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Dichlorodifluoromethane	0.05	25 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,2-Dichlorobenzene	0.05	4.3 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,3-Dichlorobenzene	0.05	6 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,4-Dichlorobenzene	0.05	0.097 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,1-Dichloroethane	0.05	11 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,2-Dichloroethane	0.05	0.05 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,1-Dichloroethylene	0.05	0.05 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
cis-1,2-Dichloroethylene	0.05	30 ug/g dry	0.37	ND (0.05)	0.07	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	0.14	N/A
trans-1,2-Dichloroethylene	0.05	0.75 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,2-Dichloropropane	0.05	0.085 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
cis-1,3-Dichloropropylene	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
trans-1,3-Dichloropropylene	0.05		ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,3-Dichloropropene, total	0.05	0.083 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Ethylbenzene	0.05	15 ug/g dry	0.13	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Ethylene dibromide (dibromoethane, 1,2-)	0.05	0.05 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Hexane	0.05	34 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Methyl Ethyl Ketone (2-Butanone)	0.50	44 ug/g dry	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	N/A	ND (0.50)	ND (0.50)	N/A	ND (0.50)	N/A	ND (0.50)	N/A
Methyl Isobutyl Ketone	0.50	4.3 ug/g dry	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	N/A	ND (0.50)	ND (0.50)	N/A	ND (0.50)	N/A	ND (0.50)	N/A
Methyl tert-butyl ether	0.05	1.4 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Methylene Chloride	0.05	0.96 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Styrene	0.05	2.2 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,1,1,2-Tetrachloroethane	0.05	0.05 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,1,2,2-Tetrachloroethane	0.05	0.05 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Tetrachloroethylene	0.05	2.3 ug/g dry	0.21	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Toluene	0.05	6 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,1,1-Trichloroethane	0.05	3.4 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
1,1,2-Trichloroethane	0.05	0.05 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Trichloroethylene	0.05	0.52 ug/g dry	14.8	0.18	1.12	0.06	0.39	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	3.56	N/A
Trichlorofluoromethane	0.05	5.8 ug/g dry	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Vinyl Chloride	0.02	0.022 ug/g dry	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	ND (0.02)	ND (0.02)	N/A	ND (0.02)	N/A	ND (0.02)	N/A
m/p-Xylene	0.05		0.82	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
o-Xylene	0.05		0.70	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Xylenes, total	0.05	25 ug/g dry	1.52	ND (0.05)	ND (0.05)	ND (0.05)	0.09	N/A	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	ND (0.05)	N/A
Hydrocarbons															
F1 PHCs (C6-C10)	7	65 ug/g dry	12	ND (7)	ND (7)	ND (7)	ND (7)	N/A	ND (7)	ND (7)	N/A	ND (7)	N/A	ND (7)	N/A
F2 PHCs (C10-C16)	4	150 ug/g dry	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	N/A	ND (4)	ND (4)	N/A	ND (4)	N/A	ND (4)	N/A
F3 PHCs (C16-C34)	8	1300 ug/g dry	36	55	25	20	ND (8)	N/A	ND (8)	20	N/A	ND (8)	N/A	ND (8)	N/A
F4 PHCs (C34-C50)	6	5600 ug/g dry	ND (6)	28	7	33	ND (6)	N/A	ND (6)	11	N/A	ND (6)	N/A	ND (6)	N/A
F4G PHCs (gravimetric)	50	5600 ug/g dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-Volatiles															
Acenaphthene	0.02	58 ug/g dry	0.46	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	ND (0.02)	N/A	ND (0.02)	N/A	ND (0.02)	ND (0.02)
Acenaphthylene	0.02	0.17 ug/g dry	0.17	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	ND (0.02)	N/A	ND (0.02)	N/A	ND (0.02)	ND (0.02)
Anthracene	0.02	0.74 ug/g dry	1.39	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	0.05	N/A	ND (0.02)	N/A	ND (0.02)	ND (0.02)
Benzo[a]anthracene	0.02	0.63 ug/g dry	1.07	ND (0.02)	ND (0.02)	ND (0.02)	0.03	ND (0.02)	N/A	0.16	N/A	ND (0.02)	N/A	0.05	ND (0.02)
Benzo[a]pyrene	0.02	0.3 ug/g dry	1.87	ND (0.02)	ND (0.02)	ND (0.02)	0.03	ND (0.02)	N/A	0.16	N/A	ND (0.02)	N/A	0.05	ND (0.02)
Benzo[b]fluoranthene	0.02	0.78 ug/g dry	2.07	ND (0.02)	ND (0.02)	ND (0.02)	0.04	ND (0.02)	N/A	0.20	N/A	ND (0.02)	N/A	0.06	ND (0.02)
Benzo[g,h,i]perylene	0.02	7.8 ug/g dry	1.20	ND (0.02)	ND (0.02)	ND (0.02)	0.03	ND (0.02)	N/A	0.15	N/A	ND (0.02)	N/A	0.04	ND (0.02)
Benzo[k]fluoranthene	0.02	0.78 ug/g dry	1.19	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	0.10	N/A	ND (0.02)	N/A	0.03	ND (0.02)
Chrysene	0.02	7.8 ug/g dry	1.00	ND (0.02)	ND (0.02)	ND (0.02)	0.03	ND (0.02)	N/A	0.16	N/A	ND (0.02)	N/A	0.05	ND (0.02)
Dibenzo[a,h]anthracene	0.02	0.1 ug/g dry	0.33	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	0.03	N/A	ND (0.02)	N/A	ND (0.02)	ND (0.02)
Fluoranthene	0.02	0.69 ug/g dry	3.30	0.05	ND (0.02)	0.06	0.06	ND (0.02)	N/A	0.32	N/A	ND (0.02)	N/A	0.13	ND (0.02)
Fluorene	0.02	69 ug/g dry	0.56	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	ND (0.02)	N/A	ND (0.02)	N/A	ND (0.02)	ND (0.02)
Indeno [1,2,3-cd] pyrene	0.02	0.48 ug/g dry	1.17	ND (0.02)	ND (0.02)	ND (0.02)	0.03	ND (0.02)	N/A	0.13	N/A	ND (0.02)	N/A	0.03	ND (0.02)
1-Methylnaphthalene	0.02	3.4 ug/g dry	0.57	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	0.05	N/A	ND (0.02)	N/A	0.06	ND (0.02)
2-Methylnaphthalene	0.02	3.4 ug/g dry	0.64	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	0.06	N/A	ND (0.02)	N/A	0.04	ND (0.02)
Methylnaphthalene (1&2)	0.04	3.4 ug/g dry	1.22	ND (0.04)	ND (0.04)	ND (0.04)	ND (0.04)	ND (0.04)	N/A	0.11	N/A	ND (0.04)	N/A	0.10	ND (0.04)
Naphthalene	0.01	0.75 ug/g dry	0.56	0.01	ND (0.01)	ND (0.01)	0.01	ND (0.01)	N/A	0.04	N/A	ND (0.01)	N/A	0.03	ND (0.01)
Phenanthrene	0.02	7.8 ug/g dry	3.20	0.04	ND (0.02)	0.06	0.04	ND (0.02)	N/A	0.18	N/A	ND (0.02)	N/A	0.12	ND (0.02)
Pyrene	0.02	78 ug/g dry	2.57	0.05	ND (0.02)	0.05	0.06	ND (0.02)	N/A	0.28	N/A	ND (0.02)	N/A	0.11	ND (0.02)

TABLE 1.2
Phase Two ESA
1880 Assumption Street, Windsor, Ontario
JOB NO. 24E099

Parameter	MDL	Regulation	Sample						
		Reg 153/04 -T3 Res/Park, fine	12/0.5	12/2.5	10/1.0	10/15.0	8/1.5	8/3.5	8/15.0
			2523059-01	2523059-02	2523059-03	2523059-04	2523059-05	2523059-06	2523059-07
Sample Date (m/d/y)						05/29/2025			
Physical Characteristics									
% Solids	0.1		82.3	83.4	82.5	86.1	75.9	84.0	87.3
General Inorganics									
pH	0.05		N/A	7.62	7.37	7.89	9.63	N/A	8.09
Metals									
Antimony	1.0	7.5 ug/g dry	ND (1.0)	N/A	3.6	N/A	3.3	N/A	N/A
Arsenic	1.0	18 ug/g dry	12.1	N/A	19.2	N/A	13.6	N/A	N/A
Barium	1.0	390 ug/g dry	141	N/A	242	N/A	940	N/A	N/A
Beryllium	0.5	5 ug/g dry	1.1	N/A	1.1	N/A	0.8	N/A	N/A
Boron, available	0.5	1.5 ug/g dry	0.9	N/A	1.5	N/A	2.3	N/A	N/A
Boron	5.0	120 ug/g dry	17.8	N/A	15.2	N/A	20.9	N/A	N/A
Cadmium	0.5	1.2 ug/g dry	ND (0.5)	N/A	1.0	N/A	3.0	N/A	N/A
Chromium (VI)	0.2	10 ug/g dry	0.5	N/A	ND (0.2)	N/A	ND (0.2)	N/A	N/A
Chromium	5.0	160 ug/g dry	33.8	N/A	116	N/A	80.9	N/A	N/A
Cobalt	1.0	22 ug/g dry	15.0	N/A	15.1	N/A	10.2	N/A	N/A
Copper	5.0	180 ug/g dry	24.7	N/A	101	N/A	139	N/A	N/A
Lead	1.0	120 ug/g dry	30.5	N/A	321	N/A	291	N/A	N/A
Mercury	0.1	1.8 ug/g dry	ND (0.1)	N/A	0.5	N/A	0.2	N/A	N/A
Molybdenum	1.0	6.9 ug/g dry	2.5	N/A	38.2	N/A	86.6	N/A	N/A
Nickel	5.0	130 ug/g dry	40.3	N/A	34.5	N/A	30.0	N/A	N/A
Selenium	1.0	2.4 ug/g dry	ND (1.0)	N/A	1.8	N/A	ND (1.0)	N/A	N/A
Silver	0.3	25 ug/g dry	ND (0.3)	N/A	ND (0.3)	N/A	ND (0.3)	N/A	N/A
Thallium	1.0	1 ug/g dry	ND (1.0)	N/A	ND (1.0)	N/A	ND (1.0)	N/A	N/A
Uranium	1.0	23 ug/g dry	1.4	N/A	1.0	N/A	ND (1.0)	N/A	N/A
Vanadium	10.0	86 ug/g dry	59.2	N/A	67.4	N/A	59.3	N/A	N/A
Zinc	20.0	340 ug/g dry	113	N/A	686	N/A	1390	N/A	N/A
Volatiles									
Acetone	0.50	28 ug/g dry	N/A	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Benzene	0.02	0.17 ug/g dry	N/A	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Bromodichloromethane	0.05	13 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Bromoform	0.05	0.26 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Bromomethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Carbon Tetrachloride	0.05	0.12 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Chlorobenzene	0.05	2.7 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Chloroform	0.05	0.18 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Dibromochloromethane	0.05	9.4 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Dichlorodifluoromethane	0.05	25 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,2-Dichlorobenzene	0.05	4.3 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,3-Dichlorobenzene	0.05	6 ug/a dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,4-Dichlorobenzene	0.05	0.097 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,1-Dichloroethane	0.05	11 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,2-Dichloroethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,1-Dichloroethylene	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
cis-1,2-Dichloroethylene	0.05	30 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	0.94	0.14	ND (0.05)
trans-1,2-Dichloroethylene	0.05	0.75 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	0.08	ND (0.05)	ND (0.05)
1,2-Dichloropropane	0.05	0.085 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
cis-1,3-Dichloropropylene	0.05		N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
trans-1,3-Dichloropropylene	0.05		N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,3-Dichloropropene, total	0.05	0.083 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Ethylbenzene	0.05	15 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	0.22	ND (0.05)	ND (0.05)
Ethylene dibromide (dibromoethane, 1,2-)	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Hexane	0.05	34 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Methyl Ethyl Ketone (2-Butanone)	0.50	44 ug/g dry	N/A	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Methyl Isobutyl Ketone	0.50	4.3 ug/g dry	N/A	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Methyl tert-butyl ether	0.05	1.4 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Methylene Chloride	0.05	0.96 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Styrene	0.05	2.2 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,1,1,2-Tetrachloroethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,1,2,2-Tetrachloroethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Tetrachloroethylene	0.05	2.3 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	0.05	6 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	0.48	ND (0.05)	ND (0.05)
1,1,1-Trichloroethane	0.05	3.4 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,1,2-Trichloroethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Trichloroethylene	0.05	0.52 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	0.14	0.20	ND (0.05)
Trichlorofluoromethane	0.05	5.8 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Vinyl Chloride	0.02	0.022 ug/g dry	N/A	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
m/p-Xylene	0.05		N/A	ND (0.05)	ND (0.05)	ND (0.05)	1.30	0.18	ND (0.05)
o-Xylene	0.05		N/A	ND (0.05)	ND (0.05)	ND (0.05)	0.72	0.12	ND (0.05)
Xylenes, total	0.05	25 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	2.02	0.29	ND (0.05)
Hydrocarbons									
F1 PHCs (C6-C10)	7	65 ug/g dry	N/A	ND (7)	ND (7)	ND (7)	26	10	ND (7)
F2 PHCs (C10-C16)	4	150 ug/g dry	N/A	ND (4)	ND (4)	10	548	224	8
F3 PHCs (C16-C34)	8	1300 ug/g dry	N/A	ND (8)	59	18	8310	1020	12
F4 PHCs (C34-C50)	6	5600 ug/g dry	N/A	ND (6)	64	ND (6)	1080	113	9
F4G PHCs (gravimetric)	50	5600 ug/g dry	N/A	N/A	N/A	N/A	10100	N/A	N/A
Semi-Volatiles									
Acenaphthene	0.02	58 ug/g dry	ND (0.02)	N/A	N/A	N/A	0.31	N/A	N/A
Acenaphthylene	0.02	0.17 ug/g dry	ND (0.02)	N/A	N/A	N/A	0.33	N/A	N/A
Anthracene	0.02	0.74 ug/g dry	ND (0.02)	N/A	N/A	N/A	0.41	N/A	N/A
Benzo[a]anthracene	0.02	0.63 ug/g dry	ND (0.02)	N/A	N/A	N/A	1.28	N/A	N/A
Benzo[a]pyrene	0.02	0.3 ug/g dry	ND (0.02)	N/A	N/A	N/A	1.36	N/A	N/A
Benzo[b]fluoranthene	0.02	0.78 ug/g dry	ND (0.02)	N/A	N/A	N/A	1.36	N/A	N/A
Benzo[g,h,i]perylene	0.02	7.8 ug/g dry	ND (0.02)	N/A	N/A	N/A	1.12	N/A	N/A
Benzo[k]fluoranthene	0.02	0.78 ug/g dry	ND (0.02)	N/A	N/A	N/A	0.70	N/A	N/A
Chrysene	0.02	7.8 ug/g dry	ND (0.02)	N/A	N/A	N/A	1.70	N/A	N/A
Dibenzo[a,h]anthracene	0.02	0.1 ug/g dry	ND (0.02)	N/A	N/A	N/A	ND (0.40)	N/A	N/A
Fluoranthene	0.02	0.69 ug/g dry	0.03	N/A	N/A	N/A	4.71	N/A	N/A
Fluorene	0.02	69 ug/g dry	ND (0.02)	N/A	N/A	N/A	0.63	N/A	N/A
Indeno [1,2,3-cd] pyrene	0.02	0.48 ug/g dry	ND (0.02)	N/A	N/A	N/A	0.92	N/A	N/A
1-Methylnaphthalene	0.02	3.4 ug/g dry	ND (0.02)	N/A	N/A	N/A	0.75	N/A	N/A
2-Methylnaphthalene	0.02	3.4 ug/g dry	ND (0.02)	N/A	N/A	N/A	0.46	N/A	N/A
Methylnaphthalene (1&2)	0.04	3.4 ug/g dry	ND (0.04)	N/A	N/A	N/A	1.21	N/A	N/A
Naphthalene	0.01	0.75 ug/g dry	ND (0.01)	N/A	N/A	N/A	0.37	N/A	N/A
Phenanthrene	0.02	7.8 ug/g dry	ND (0.02)	N/A	N/A	N/A	4.22	N/A	N/A
Pyrene	0.02	78 ug/g dry	0.02	N/A	N/A	N/A	4.22	N/A	N/A
1,2,4-Trichlorobenzene	0.05	1.4 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
1-Methylnaphthalene	0.05	3.4 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
2-Methylnaphthalene	0.05	3.4 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Methylnaphthalene (1&2)	0.05	3.4 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene	0.10		N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
2,6-Dinitrotoluene	0.10		N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Dinitrotoluene (2,4 & 2,6)	0.20	0.92 ug/g dry	N/A	N/A	ND (4.00)	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.10	1 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
4-Chloroaniline	0.10	0.53 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Acenaphthene	0.05	58 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Acenaphthylene	0.05	0.17 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Anthracene	0.05	0.74 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Benzo[a]anthracene	0.05	0.63 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Benzo[a]pyrene	0.05	0.3 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Benzo[b]fluoranthene	0.05	0.78 ug/g dry	N/A	N/A	1.38	N/A	N/A	N/A	N/A
Benzo[g,h,i]perylene	0.05	7.8 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Benzo[k]fluoranthene	0.05	0.78 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
1,1-Biphenyl	0.05	1.1 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Bis(2-chloroethyl)ether	0.10	0.5 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Bis(2-chloroisopropyl)ether	0.10	1.8 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Bis(2-ethylhexyl)phthalate	0.10	5 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Chrysene	0.05	7.8 ug/g dry	N/A	N/A	1.12	N/A	N/A	N/A	N/A
Diethylphthalate	0.10	0.5 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Dimethylphthalate	0.10	0.5 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Dibenzo[a,h]anthracene	0.10	0.1 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Fluoranthene	0.05	0.69 ug/g dry	N/A	N/A	2.19	N/A	N/A	N/A	N/A
Fluorene	0.05	69 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Indeno [1,2,3-cd] pyrene	0.05	0.48 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Naphthalene	0.05	0.75 ug/g dry	N/A	N/A	ND (1.00)	N/A	N/A	N/A	N/A
Phenanthrene	0.05	7.8 ug/g dry	N/A	N/A	1.15	N/A	N/A	N/A	N/A
Pyrene	0.05	78 ug/g dry	N/A	N/A	1.76	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol	0.10	5.5 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	0.10	4.2 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
2,4-Dichlorophenol	0.10	2.1 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
2,4-Dimethylphenol	0.10	420 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
2,4-Dinitrophenol	0.10	38 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
2-Chlorophenol	0.10	2 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Pentachlorophenol	0.10	0.1 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A
Phenol	0.10	9.4 ug/g dry	N/A	N/A	ND (2.00)	N/A	N/A	N/A	N/A

TABLE 1.3
Phase Two ESA
1880 Assumption Street, Windsor, Ontario
JOB NO. 24E099

Parameter	MDL	Regulation	Sample									
		Reg 153/04 -T3 Res/Park, fine	7/1.0	7/3.0	7/15.0	9/1.0	9/18.0	11/2.0	11/15.0	DUP-4	DUP-2	DUP-3
Sample ID			2523059-08	2523059-09	2523059-10	2523059-11	2523059-12	2523059-13	2523059-14	2523059-15	2523059-16	2523059-17
Sample Date (m/d/y)			05/30/2025									
Physical Characteristics												
% Solids	0.1		81.8	82.1	85.9	78.0	86.5	86.9	87.8	81.0	85.7	87.5
General Inorganics												
pH	0.05		N/A	N/A	7.95	7.18	7.84	7.72	7.90	N/A	7.77	7.95
Metals												
Antimony	1.0	7.5 ug/g dry	ND (1.0)	N/A	N/A	1.9	N/A	ND (1.0)	N/A	ND (1.0)	ND (1.0)	N/A
Arsenic	1.0	18 ug/g dry	7.3	N/A	N/A	14.4	N/A	9.2	N/A	8.9	10.3	N/A
Barium	1.0	390 ug/g dry	118	N/A	N/A	360	N/A	84.5	N/A	147	105	N/A
Beryllium	0.5	5 ug/g dry	0.9	N/A	N/A	1.2	N/A	0.9	N/A	1.0	1.1	N/A
Boron, available	0.5	1.5 ug/g dry	0.9	N/A	N/A	1.6	N/A	ND (0.5)	N/A	1.0	ND (0.5)	N/A
Boron	5.0	120 ug/g dry	12.4	N/A	N/A	15.0	N/A	18.2	N/A	13.2	21.3	N/A
Cadmium	0.5	1.2 ug/g dry	ND (0.5)	N/A	N/A	1.6	N/A	ND (0.5)	N/A	0.6	ND (0.5)	N/A
Chromium (VI)	0.2	10 ug/g dry	0.2	N/A	N/A	ND (0.2)	N/A	0.2	N/A	ND (0.2)	0.2	N/A
Chromium	5.0	160 ug/g dry	29.7	N/A	N/A	35.0	N/A	28.9	N/A	34.9	33.7	N/A
Cobalt	1.0	22 ug/g dry	8.4	N/A	N/A	11.6	N/A	12.2	N/A	9.7	13.7	N/A
Copper	5.0	180 ug/g dry	18.4	N/A	N/A	49.3	N/A	21.5	N/A	31.5	24.7	N/A
Lead	1.0	120 ug/g dry	14.6	N/A	N/A	122	N/A	12.1	N/A	42.9	14.2	N/A
Mercury	0.1	1.8 ug/g dry	ND (0.1)	N/A	N/A	0.1	N/A	ND (0.1)	N/A	0.2	ND (0.1)	N/A
Molybdenum	1.0	6.9 ug/g dry	8.6	N/A	N/A	7.4	N/A	3.9	N/A	9.1	4.1	N/A
Nickel	5.0	130 ug/g dry	22.1	N/A	N/A	29.0	N/A	31.1	N/A	25.0	36.8	N/A
Selenium	1.0	2.4 ug/g dry	ND (1.0)	N/A	N/A	ND (1.0)	N/A	ND (1.0)	N/A	ND (1.0)	ND (1.0)	N/A
Silver	0.3	25 ug/g dry	ND (0.3)	N/A	N/A	ND (0.3)	N/A	ND (0.3)	N/A	ND (0.3)	ND (0.3)	N/A
Thallium	1.0	1 ug/g dry	ND (1.0)	N/A	N/A	ND (1.0)	N/A	ND (1.0)	N/A	ND (1.0)	ND (1.0)	N/A
Uranium	1.0	23 ug/g dry	1.4	N/A	N/A	1.7	N/A	1.1	N/A	1.4	1.3	N/A
Vanadium	10.0	86 ug/g dry	44.5	N/A	N/A	61.4	N/A	47.1	N/A	49.7	51.7	N/A
Zinc	20.0	340 ug/g dry	125	N/A	N/A	510	N/A	62.7	N/A	294	68.2	N/A
Volatiles												
Acetone	0.50	28 ug/g dry	N/A	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	N/A	ND (0.50)	N/A	N/A	ND (0.50)
Benzene	0.02	0.17 ug/g dry	N/A	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)
Bromodichloromethane	0.05	13 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Bromoform	0.05	0.26 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Bromomethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Carbon Tetrachloride	0.05	0.12 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Chlorobenzene	0.05	2.7 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Chloroform	0.05	0.18 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Dibromochloromethane	0.05	9.4 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Dichlorodifluoromethane	0.05	25 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,2-Dichlorobenzene	0.05	4.3 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,3-Dichlorobenzene	0.05	6 uq/q dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,4-Dichlorobenzene	0.05	0.097 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,1-Dichloroethane	0.05	11 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,2-Dichloroethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,1-Dichloroethylene	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
cis-1,2-Dichloroethylene	0.05	30 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
trans-1,2-Dichloroethylene	0.05	0.75 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,2-Dichloropropane	0.05	0.085 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
cis-1,3-Dichloropropylene	0.05		N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
trans-1,3-Dichloropropylene	0.05		N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,3-Dichloropropene, total	0.05	0.083 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Ethylbenzene	0.05	15 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Ethylene dibromide (dibromoethane, 1,2-)	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Hexane	0.05	34 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Methyl Ethyl Ketone (2-Butanone)	0.50	44 ug/g dry	N/A	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	N/A	ND (0.50)	N/A	N/A	ND (0.50)
Methyl Isobutyl Ketone	0.50	4.3 ug/g dry	N/A	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	N/A	ND (0.50)	N/A	N/A	ND (0.50)
Methyl tert-butyl ether	0.05	1.4 uq/q dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Methylene Chloride	0.05	0.96 uq/q dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Styrene	0.05	2.2 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,1,1,2-Tetrachloroethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,1,2,2-Tetrachloroethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Tetrachloroethylene	0.05	2.3 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Toluene	0.05	6 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,1,1-Trichloroethane	0.05	3.4 uq/q dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
1,1,2-Trichloroethane	0.05	0.05 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Trichloroethylene	0.05	0.52 ug/g dry	N/A	ND (0.05)	ND (0.05)	0.07	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Trichlorofluoromethane	0.05	5.8 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Vinyl Chloride	0.02	0.022 ug/g dry	N/A	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)
m/p-Xylene	0.05		N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
o-Xylene	0.05		N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Xylenes, total	0.05	25 ug/g dry	N/A	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	N/A	ND (0.05)	N/A	N/A	ND (0.05)
Hydrocarbons												
F1 PHCs (C6-C10)	7	65 ug/g dry	N/A	ND (7)	ND (7)	ND (7)	ND (7)	N/A	ND (7)	N/A	N/A	ND (7)
F2 PHCs (C10-C16)	4	150 ug/g dry	N/A	ND (4)	ND (4)	27	9	N/A	10	N/A	N/A	10
F3 PHCs (C16-C34)	8	1300 ug/g dry	N/A	ND (8)	ND (8)	114	10	N/A	14	N/A	N/A	15
F4 PHCs (C34-C50)	6	5600 uq/q dry	N/A	ND (6)	ND (6)	26	ND (6)	N/A	ND (6)	N/A	N/A	ND (6)
F4G PHCs (gravimetric)	50	5600 ug/g dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Semi-Volatiles												
Acenaphthene	0.02	58 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Acenaphthylene	0.02	0.17 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Anthracene	0.02	0.74 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Benzo[a]anthracene	0.02	0.63 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Benzo[a]pyrene	0.02	0.3 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Benzo[b]fluoranthene	0.02	0.78 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Benzo[g,h,i]perylene	0.02	7.8 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Benzo[k]fluoranthene	0.02	0.78 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Chrysene	0.02	7.8 ug/g dry	N/A	N/A	N/A	0.03	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Dibenzo[a,h]anthracene	0.02	0.1 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Fluoranthene	0.02	0.69 ug/g dry	N/A	N/A	N/A	0.03	N/A	ND (0.02)	N/A	N/A	0.05	N/A
Fluorene	0.02	69 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Indeno [1,2,3-cd] pyrene	0.02	0.48 ug/g dry	N/A	N/A	N/A	ND (0.02)	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
1-Methylnaphthalene	0.02	3.4 ug/g dry	N/A	N/A	N/A	0.07	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
2-Methylnaphthalene	0.02	3.4 ug/g dry	N/A	N/A	N/A	0.08	N/A	ND (0.02)	N/A	N/A	ND (0.02)	N/A
Methylnaphthalene (1&2)	0.04	3.4 ug/g dry	N/A	N/A	N/A	0.15	N/A	ND (0.04)	N/A	N/A	ND (0.04)	N/A
Naphthalene	0.01	0.75 ug/g dry	N/A	N/A	N/A	0.02	N/A	ND (0.01)	N/A	N/A	ND (0.01)	N/A
Phenanthrene	0.02	7.8 ug/g dry	N/A	N/A	N/A	0.04	N/A	ND (0.02)	N/A	N/A	0.04	N/A
Pyrene	0.02	78 ug/g dry	N/A	N/A	N/A	0.05	N/A	ND (0.02)	N/A	N/A	0.04	N/A
1,2,4-Trichlorobenzene	0.05	1.4 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
1-Methylnaphthalene	0.05	3.4 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
2-Methylnaphthalene	0.05	3.4 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Methylnaphthalene (1&2)	0.05	3.4 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
2,4-Dinitrotoluene	0.10		ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
2,6-Dinitrotoluene	0.10		ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Dinitrotoluene (2,4 & 2,6)	0.20	0.92 ug/g dry	ND (4.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (4.00)	N/A	N/A
3,3'-Dichlorobenzidine	0.10	1 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
4-Chloroaniline	0.10	0.53 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Acenaphthene	0.05	58 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Acenaphthylene	0.05	0.17 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Anthracene	0.05	0.74 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Benzo[a]anthracene	0.05	0.63 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Benzo[a]pyrene	0.05	0.3 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Benzo[b]fluoranthene	0.05	0.78 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Benzo[g,h,i]perylene	0.05	7.8 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Benzo[k]fluoranthene	0.05	0.78 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
1,1-Biphenyl	0.05	1.1 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Bis(2-chloroethyl)ether	0.10	0.5 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Bis(2-chloroisopropyl)ether	0.10	1.8 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Bis(2-ethylhexyl)phthalate	0.10	5 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Chrysene	0.05	7.8 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Diethylphthalate	0.10	0.5 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Dimethylphthalate	0.10	0.5 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Dibenzo[a,h]anthracene	0.10	0.1 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Fluoranthene	0.05	0.69 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Fluorene	0.05	69 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Indeno [1,2,3-cd] pyrene	0.05	0.48 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Naphthalene	0.05	0.75 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Phenanthrene	0.05	7.8 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
Pyrene	0.05	78 ug/g dry	ND (1.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (1.00)	N/A	N/A
2,4,5-Trichlorophenol	0.10	5.5 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
2,4,6-Trichlorophenol	0.10	4.2 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
2,4-Dichlorophenol	0.10	2.1 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
2,4-Dimethylphenol	0.10	420 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
2,4-Dinitrophenol	0.10	38 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
2-Chlorophenol	0.10	2 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Pentachlorophenol	0.10	0.1 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A
Phenol	0.10	9.4 ug/g dry	ND (2.00)	N/A	N/A	N/A	N/A	N/A	N/A	ND (2.00)	N/A	N/A

TABLE 2.1
Phase Two ESA
1880 Assumption Street, Windsor, Ontario
JOB NO. 24E099

Parameter	MDL	Regulation	Sample								
		Reg 153/04 -T3 Non-Potable Groundwater, fine	MW7 2525032-01	MW8 2525032-02	MW11 2525032-03	MWDUP1 2525032-04	Trip Blank 25E0913 2525032-05	MW10 2525273-01	MW9 2525273-02	DUP3 2525273-03	DUP2 2525273-04
Sample Date (m/d/y)			06/12/2025					06/18/2025			
General Inorganics											
pH	0.1		7.2	7.2	7.3	N/A	N/A	7.2	7.3	7.2	N/A
Metals											
Mercury	0.1	2.8	<0.1	<0.1	<0.1	<0.1	N/A	ND (0.1)	ND (0.1)	N/A	N/A
Antimony	0.5	20000	<0.5	<0.5	<0.5	<0.5	N/A	ND (0.5)	ND (0.5)	N/A	N/A
Arsenic	1.0	1900	<1.0	<1.0	1.1	<1.0	N/A	ND (1.0)	ND (1.0)	N/A	N/A
Barium	1.0	29000	29.9	35.2	81.0	34.9	N/A	42.7	30.0	N/A	N/A
Beryllium	0.5	67	<0.5	<0.5	<0.5	<0.5	N/A	ND (0.5)	ND (0.5)	N/A	N/A
Boron	10.0	45000	275	309	477	304	N/A	782	477	N/A	N/A
Cadmium	0.2	2.7	<0.2	<0.2	<0.2	<0.2	N/A	ND (0.2)	ND (0.2)	N/A	N/A
Chromium (VI)	10	140	<10	<10	<10	<10	N/A	ND (10)	ND (10)	N/A	N/A
Chromium	1.0	810	<1.0	<1.0	<1.0	<1.0	N/A	ND (1.0)	ND (1.0)	N/A	N/A
Cobalt	0.5	66	1.7	2.5	2.5	2.4	N/A	2.9	4.6	N/A	N/A
Copper	0.5	87	22.5	6.5	3.9	6.1	N/A	1.9	2.7	N/A	N/A
Lead	0.2	25	0.4	0.2	<0.2	0.3	N/A	ND (0.2)	ND (0.2)	N/A	N/A
Molybdenum	0.5	9200	10.1	12.0	44.1	11.6	N/A	11.0	16.4	N/A	N/A
Nickel	1.0	490	4.8	4.8	8.7	4.6	N/A	5.9	9.0	N/A	N/A
Selenium	1.0	63	4.5	2.0	6.0	2.0	N/A	1.3	2.2	N/A	N/A
Silver	0.2	1.5	<0.2	<0.2	<0.2	<0.2	N/A	ND (0.2)	ND (0.2)	N/A	N/A
Sodium	200	2300000	101000	125000	139000	125000	N/A	305000	201000	N/A	N/A
Thallium	0.5	510	<0.5	<0.5	<0.5	<0.5	N/A	ND (0.5)	ND (0.5)	N/A	N/A
Uranium	0.2	420	17.2	29.6	23.6	30.5	N/A	22.7	36.9	N/A	N/A
Vanadium	0.5	250	1.1	1.5	1.4	1.5	N/A	1.4	1.0	N/A	N/A
Zinc	5.0	1100	38.6	7.9	<5.0	9.4	N/A	ND (5.0)	ND (5.0)	N/A	N/A
Volatiles											
Acetone	5.0	130000	<5.0	<5.0	<5.0	N/A	<5.0	ND (5.0)	ND (5.0)	N/A	ND (5.0)
Benzene	0.5	430	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Bromodichloromethane	0.5	85000	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Bromoform	0.5	770	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Bromomethane	0.5	56	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Carbon Tetrachloride	0.2	8.4	<0.2	<0.2	<0.2	N/A	<0.2	ND (0.2)	ND (0.2)	N/A	ND (0.2)
Chlorobenzene	0.5	630	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Chloroform	0.5	22	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Dibromochloromethane	0.5	82000	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Dichlorodifluoromethane	1.0	4400	<1.0	<1.0	<1.0	N/A	<1.0	ND (1.0)	ND (1.0)	N/A	ND (1.0)
1,2-Dichlorobenzene	0.5	9600	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,3-Dichlorobenzene	0.5	9600	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,4-Dichlorobenzene	0.5	67	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,1-Dichloroethane	0.5	3100	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,2-Dichloroethane	0.5	12	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,1-Dichloroethylene	0.5	17	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
cis-1,2-Dichloroethylene	0.5	17	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
trans-1,2-Dichloroethylene	0.5	17	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,2-Dichloropropane	0.5	140	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
cis-1,3-Dichloropropylene	0.5		<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
trans-1,3-Dichloropropylene	0.5		<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,3-Dichloropropene, total	0.5	45	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Ethylbenzene	0.5	2300	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Ethylene dibromide (dibromoethane	0.2	0.83	<0.2	<0.2	<0.2	N/A	<0.2	ND (0.2)	ND (0.2)	N/A	ND (0.2)
Hexane	1.0	520	<1.0	<1.0	<1.0	N/A	<1.0	ND (1.0)	ND (1.0)	N/A	ND (1.0)
Methyl Ethyl Ketone (2-Butanone)	5.0	1500000	<5.0	<5.0	<5.0	N/A	<5.0	ND (5.0)	ND (5.0)	N/A	ND (5.0)
Methyl Isobutyl Ketone	5.0	580000	<5.0	<5.0	<5.0	N/A	<5.0	ND (5.0)	ND (5.0)	N/A	ND (5.0)
Methyl tert-butyl ether	2.0	1400	<2.0	<2.0	<2.0	N/A	<2.0	ND (2.0)	ND (2.0)	N/A	ND (2.0)
Methylene Chloride	5.0	5500	<5.0	<5.0	<5.0	N/A	<5.0	ND (5.0)	ND (5.0)	N/A	ND (5.0)
Styrene	0.5	9100	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,1,1,2-Tetrachloroethane	0.5	28	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,1,2,2-Tetrachloroethane	0.5	15	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Tetrachloroethylene	0.5	17	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Toluene	0.5	18000	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,1,1-Trichloroethane	0.5	6700	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
1,1,2-Trichloroethane	0.5	30	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Trichloroethylene	0.5	17	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Trichlorofluoromethane	1.0	2500	<1.0	<1.0	<1.0	N/A	<1.0	ND (1.0)	ND (1.0)	N/A	ND (1.0)
Vinyl Chloride	0.5	1.7	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
m/p-Xylene	0.5		<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
o-Xylene	0.5		<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Xylenes, total	0.5	4200	<0.5	<0.5	<0.5	N/A	<0.5	ND (0.5)	ND (0.5)	N/A	ND (0.5)
Hydrocarbons											
F1 PHCs (C6-C10)	25	750	<25	<25	<25	N/A	<25	ND (25)	ND (25)	N/A	ND (25)
F2 PHCs (C10-C16)	100	150	<100	<100	<100	N/A	N/A	ND (100)	ND (100)	N/A	ND (100)
F3 PHCs (C16-C34)	100	500	<100	<100	<100	N/A	N/A	ND (100)	ND (100)	N/A	ND (100)
F4 PHCs (C34-C50)	100	500	<100	<100	<100	N/A	N/A	ND (100)	ND (100)	N/A	ND (100)
Semi-Volatiles											
Acenaphthene	0.05	1700	N/A	<0.05	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
Acenaphthylene	0.05	1.8	N/A	<0.05	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
Anthracene	0.01	2.4	N/A	0.04	0.05	0.03	N/A	N/A	ND (0.01)	N/A	N/A
Benzo[a]anthracene	0.01	4.7	N/A	0.18	0.10	0.12	N/A	N/A	ND (0.01)	N/A	N/A
Benzo[a]pyrene	0.01	0.81	N/A	0.18	0.08	0.05	N/A	N/A	ND (0.01)	N/A	N/A
Benzo[b]fluoranthene	0.05	0.75	N/A	0.15	0.07	0.07	N/A	N/A	ND (0.05)	N/A	N/A
Benzo[g,h,i]perylene	0.05	0.2	N/A	0.08	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
Benzo[k]fluoranthene	0.05	0.4	N/A	0.06	0.10	0.12	N/A	N/A	ND (0.05)	N/A	N/A
Chrysene	0.05	1	N/A	0.16	0.11	0.15	N/A	N/A	ND (0.05)	N/A	N/A
Dibenzo[a,h]anthracene	0.05	0.52	N/A	<0.05	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
Fluoranthene	0.01	130	N/A	0.30	0.07	0.06	N/A	N/A	ND (0.01)	N/A	N/A
Fluorene	0.05	400	N/A	<0.05	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
Indeno [1,2,3-cd] pyrene	0.05	0.2	N/A	0.10	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
1-Methylnaphthalene	0.05	1800	N/A	<0.05	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
2-Methylnaphthalene	0.05	1800	N/A	<0.05	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
Methylnaphthalene (1&2)	0.10	1800	N/A	<0.10	<0.10	<0.10	N/A	N/A	ND (0.10)	N/A	N/A
Naphthalene	0.05	6400	N/A	<0.05	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
Phenanthrene	0.05	580	N/A	0.09	<0.05	<0.05	N/A	N/A	ND (0.05)	N/A	N/A
Pyrene	0.01	68	N/A	0.21	0.07	0.06	N/A	N/A	ND (0.01)	N/A	N/A
1-Methylnaphthalene	1	1800	<1	N/A	N/A	N/A	N/A	ND (1)	N/A	ND (1)	N/A
1,2,4-Trichlorobenzene	0.5	850	<0.5	N/A	N/A	N/A	N/A	ND (0.5)	N/A	ND (0.5)	N/A
2,4-Dinitrotoluene	2		<2	N/A	N/A	N/A	N/A	ND (2)	N/A	ND (2)	N/A
2,6-Dinitrotoluene	2		<2	N/A	N/A	N/A	N/A	ND (2)	N/A	ND (2)	N/A
Dinitrotoluene (2,4 & 2,6)	3	2900	<3	N/A	N/A	N/A	N/A	ND (3)	N/A	ND (3)	N/A
2-Methylnaphthalene	1	1800	<1	N/A	N/A	N/A	N/A	ND (1)	N/A	ND (1)	N/A
Methylnaphthalene (1&2)	1	1800	<1	N/A	N/A	N/A	N/A	ND (1)	N/A	ND (1)	N/A
3,3'-Dichlorobenzidine	0.5	640	<0.5	N/A	N/A	N/A	N/A	ND (0.5)	N/A	ND (0.5)	N/A
4-Chloroaniline	10	400	<10	N/A	N/A	N/A	N/A	ND (10)	N/A	ND (10)	N/A
Acenaphthene	1	1700	<1	N/A	N/A	N/A	N/A	ND (1)	N/A	ND (1)	N/A
Anthracene	0.1	2.4	<0.1	N/A	N/A	N/A	N/A	ND (0.1)	N/A	ND (0.1)	N/A
Acenaphthylene	1	1.8	<1	N/A	N/A	N/A	N/A	ND (1)	N/A	ND (1)	N/A
Benzo[a]anthracene	0.2	4.7	<0.2	N/A	N/A	N/A	N/A	ND (0.2)	N/A	ND (0.2)	N/A
Benzo[a]pyrene	0.01	0.81	<0.01	N/A	N/A	N/A	N/A	ND (0.01)	N/A	ND (0.01)	N/A
Benzo[g,h,i]perylene	0.2	0.2	<0.2	N/A	N/A	N/A	N/A	ND (0.2)	N/A	ND (0.2)	N/A
Benzo[b]fluoranthene	0.1	0.75	<0.1	N/A	N/A	N/A	N/A	ND (0.1)	N/A	ND (0.1)	N/A
Benzo[k]fluoranthene	0.1	0.4	<0.1	N/A	N/A	N/A	N/A	ND (0.1)	N/A	ND (0.1)	N/A
1,1-Biphenyl	0.5	2200	<0.5	N/A	N/A	N/A	N/A	ND (0.5)	N/A	ND (0.5)	N/A
Bis(2-chloroethyl)ether	5	300000	<5	N/A	N/A	N/A	N/A	ND (5)	N/A	ND (5)	N/A
Bis(2-chloroisopropyl)ether	4	20000	<4	N/A	N/A	N/A	N/A	ND (4)	N/A	ND (4)	N/A
Bis(2-ethylhexyl)phthalate	10	140	<10	N/A	N/A	N/A	N/A	ND (10)	N/A	ND (10)	N/A
Chrysene	0.1	1	<0.1	N/A	N/A	N/A	N/A	ND (0.1)	N/A	ND (0.1)	N/A
Dibenzo[a,h]anthracene	0.2	0.52	<0.2	N/A	N/A	N/A	N/A	ND (0.2)	N/A	ND (0.2)	N/A
Diethylphthalate	2	38	<2	N/A	N/A	N/A	N/A	ND (2)	N/A	ND (2)	N/A
Dimethylphthalate	2	38	<2	N/A	N/A	N/A	N/A	ND (2)	N/A	ND (2)	N/A
Fluoranthene	0.4	130	<0.4	N/A	N/A	N/A	N/A	ND (0.4)	N/A	ND (0.4)	N/A
Fluorene	0.5	400	<0.5	N/A	N/A	N/A	N/A	ND (0.5)	N/A	ND (0.5)	N/A
Indeno [1,2,3-cd] pyrene	0.2	0.2	<0.2	N/A	N/A	N/A	N/A	ND (0.2)	N/A	ND (0.2)	N/A
Naphthalene	2	6400	<2	N/A	N/A	N/A	N/A	ND (2)	N/A	ND (2)	N/A
Phenanthrene	0.1	580	<0.1	N/A	N/A	N/A	N/A	ND (0.1)	N/A	ND (0.1)	N/A
Pyrene	0.2	68	<0.2	N/A	N/A	N/A	N/A	ND (0.2)	N/A	ND (0.2)	N/A
2,4,5-Trichlorophenol	0.2	1600	<0.2	N/A	N/A	N/A	N/A	ND (0.2)	N/A	ND (0.2)	N/A
2,4,6-Trichlorophenol	0.2	230	<0.2	N/A	N/A	N/A	N/A	ND (0.2)	N/A	ND (0.2)	N/A
2,4-Dichlorophenol	20	4600	<20	N/A	N/A	N/A	N/A	ND (20)	N/A	ND (20)	N/A
2,4-Dimethylphenol	10	39000	<10	N/A	N/A	N/A	N/A	ND (10)	N/A	ND (10)	N/A
2,4-Dinitrophenol	10	11000	<10	N/A	N/A	N/A	N/A	ND (10)	N/A	ND (10)	N/A
2-Chlorophenol	2	3300	<2	N/A	N/A	N/A	N/A	ND (2)	N/A	ND (2)	N/A
Pentachlorophenol	0.5	62	<0.5	N/A	N/A	N/A	N/A	ND (0.5)	N/A	ND (0.5)	N/A
Phenol	1	12000	<1	N/A	N/A	N/A	N/A	ND (1)	N/A	ND (1)	N/A

APPENDIX B

Testhole Logs

JOB No: **24E099**

TESTHOLE No. **1**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **S/S Auger**
Size: **114 mm Dia.**
Date: **2025-08-05** TO **2025-08-05**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL	SAMP ID	TYPE	N-VALUE N_{60}
0.08 / 180.72	**ASPHALTIC CONCRETE**					
0.15 / 180.65	**GRAVEL (GWS)** - well graded crushed gravel with sand					
	FILL - sand and clay fill, traces red brick, clay tile and gravel	0.5		0.5	SPT	4
	TRACES OF ORGANICS					
	mottled brown-grey	1.0		2.5	SPT	6
	TRACES OF GRAVELLY CLAY	1.5				
1.80 / 179.00	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization			5.0	SPT	11
	brown	2.5		7.5	SPT	30
		3.0				
		3.5		10.0	SPT	29
3.65 / 177.15	End of Testholes					

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE DMT or CPTu(◆)◆
STANDARD ● DMT or CPT OCR ▲
DYN.CONE ○
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL No Well DATA

ELEV. (m)	REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL
180	Sample 1/0.5 was submitted for chemical analysis
179	Sample 1/5.0 was submitted for chemical analysis
178	
177	Testhole open & dry upon completion
176	
175	
174	

REVIEWING PROFESSIONAL:
T. Hooley, B.Sc. (Env.)
Soil & Materials Engineering Inc.

C.T. SOIL & MATERIALS TESTING INC.
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email ctsoil @ ctsoil.com

N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **2**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **S/S Auger**
Size: **114 mm Dia.**
Date: **2025-08-05** TO **2025-08-05**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL	SAMP ID	TYPE	N-VALUE N_{60}
0.05 / 180.81	**ASPHALTIC CONCRETE**		S.C.			
0.20 / 180.66	**GRAVEL (GWS)** - well graded crushed gravel with sand					
	FILL - mixture of clay fill with gravel, traces of red brick pieces black	0.5		0.5	SPT	4
	mottled brown-black	1.0		2.5	SPT	9
1.50 / 179.36	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization	1.5		5.0	SPT	13
	mottled brown-grey	2.0				
		2.5		7.5	SPT	30
	brown	3.0		10.0	SPT	27
3.65 / 177.21	End of Testhole	3.5				
		4.0				
		4.5				
		5.0				
		5.5				
		6.0				
		6.5				

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE DMT or CPTu(◆)◆
STANDARD ● DMT or CPT OCR ▲
DYN.CONE ○
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL DATA: No Well

ELEV. (m): 180, 179, 178, 177, 176, 175

REMARKS & GRAIN SIZE DISTRIBUTION %
GR SA SI CL

- Sample 2/0.5 was submitted for chemical analysis
- Sample 2/2.5 was submitted for chemical analysis
- Testhole open & dry upon completion

REVIEWING PROFESSIONAL:
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N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **3**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **S/S Auger**
Size: **114 mm Dia.**
Date: **2025-08-05** TO **2025-08-05**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL	SAMP ID	TYPE	N-VALUE N_{60}	BULK UNIT WGHT (kN/m3)	WELL	ELEV. (m)	REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL
0.05 / 181.03	**ASPHALTIC CONCRETE**								181	
	FILL - gravelly clay fill with red brick pieces, with embedded sand and traces of organics; black	0.5		0.5	SPT	8		No Well		Sample 3/0.5 was submitted for chemical analysis
0.90 / 180.18	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization; mottled brown-grey	1.0		2.5	SPT	10			180	Sample 3/2.5 was submitted for chemical analysis
		1.5								
		2.0		5.0	SPT	19			179	
		2.5		7.5	SPT	23				
	brown	3.0							178	
		3.5		10.0	SPT	25				
3.65 / 177.43	End of Testhole								177	Testhole open & dry upon completion
		4.0								
		4.5								
		5.0							176	
		5.5								
		6.0							175	
		6.5								

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE
STANDARD ● DMT or CPTu(◆)◆
DYN.CONE ○ DMT or CPT OCR ▲
20 40 60

WATER CONTENT (%)
Wp W Wl
10 20 30

REVIEWING PROFESSIONAL:
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N60-value: ASTM D1586
N80-value: uncorrected to N60

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JOB No: **24E099**

TESTHOLE No. **4**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **S/S Auger**
Size: **114 mm Dia.**
Date: **2025-08-05** TO **2025-08-05**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL	SAMP ID	TYPE	N-VALUE $_{80}$
0.15 / 181.09	**TOPSOIL** - black organic clay with embedded sand & gravel					
	FILL - mixed clay fill with embedded sand & gravel, traces of organics					
	black	0.5		0.0	SPT	7
	mottled brown-grey	1.0		2.0	SPT	7
1.50 / 179.74	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization	1.5				
	mottled brown-grey	2.0		5.0	SPT	19
	brown	2.5		7.5	SPT	29
		3.0		10.0	SPT	25
3.65 / 177.59	End of Testhole	3.5				
		4.0				
		4.5				
		5.0				
		5.5				
		6.0				
		6.5				

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE
STANDARD ●
DYN.CONE ○
DMT or CPTu(◆)◆
DMT or CPT OCR ▲
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL DATA: No Well

ELEV. (m)	REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL
181	Sample 4/0.0 was submitted for chemical analysis
	Sample 4/2.0 was submitted for chemical analysis
180	
179	
178	Testhole open & dry upon completion
177	
176	
175	

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REVIEWING PROFESSIONAL:
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N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **5**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **S/S Auger**
Size: **114 mm Dia.**
Date: **2025-08-05** TO **2025-08-05**

SOIL LITHOLOGY

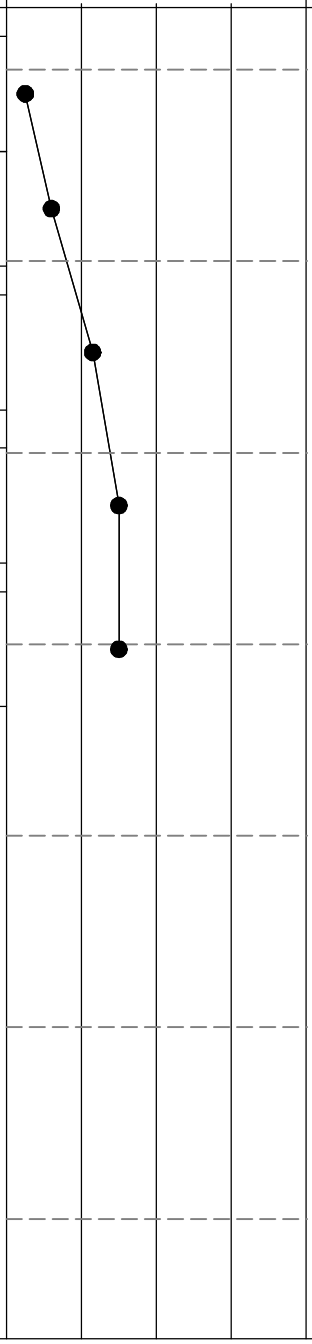
DESCRIPTION *DMT*
Ground Elev: **181.32** m

EL/DPT (m)	DESCRIPTION	DEPTH (m)	SYMBOL
0.05 / 181.27	**ASPHALTIC CONCRETE**		
0.20 / 181.12	**SANDY GRAVEL (GWS)** - well graded crushed gravel with sand		
	FILL - mixed clay fill with embedded sand & gravel, traces of organics	0.5	
	mottled brown-grey	1.0	
1.50 / 179.82	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization	1.5	
	mottled brown-grey	2.0	
		2.5	
	brown	3.0	
		3.5	
3.65 / 177.67	End of Testhole	4.0	
		4.5	
		5.0	
		5.5	
		6.0	
		6.5	

SAMPLE

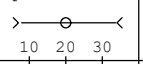
SAMP ID	TYPE	N-VALUE$_{80}$
0.5	SPT	5
2.5	SPT	12
5.0	SPT	23
7.5	SPT	30
10.0	SPT	30

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE DMT or CPTu(◆)◆
STANDARD ● DMT or CPT OCR ▲
DYN.CONE ○
20 40 60



BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30



WELL DATA: No Well

ELEV. (m)	REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL
181	Sample 5/0.5 was submitted for chemical analysis
180	Sample 5/2.5 was submitted for chemical analysis
179	
178	Testhole open & dry upon completion
177	
176	
175	

REVIEWING PROFESSIONAL:
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N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **6**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **S/S Auger**
Size: **114 mm Dia.**
Date: **2025-08-05** TO **2025-08-05**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL	SAMP ID	TYPE	N-VALUE $_{80}$
0.05 / 180.81	**ASPHALTIC CONCRETE**					
0.30 / 180.56	**SANDY GRAVEL (GWS)** - well graded crushed gravel with sand					
	FILL - black clay fill with embedded sand, gravel and trace organics	0.5		0.5	SPT	6
	mottled brown-grey	1.0		2.5	SPT	4
1.50 / 179.36	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization	1.5		5.0	SPT	7
	mottled brown-grey	2.0				
2.10 / 178.76	End of Testhole	2.5				
		3.0				
		3.5				
		4.0				
		4.5				
		5.0				
		5.5				
		6.0				
		6.5				

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE DMT or CPTu(◆)◆
STANDARD ● DMT or CPT OCR ▲
DYN.CONE ○
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL DATA: No Well

ELEV. (m): 180, 179, 178, 177, 176, 175

REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL

- Sample 6/0.5 was submitted for chemical analysis
- Sample 6/2.5 was submitted for chemical analysis
- Testhole open & dry upon completion

REVIEWING PROFESSIONAL:
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N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **7**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **57 mm I.D. H/S Auger**
Size: **159 mm O.D.**
Date: **2025-05-30** TO **2025-05-30**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL	SAMP ID	TYPE	N-VALUE N_{60}
0.08 / 180.82	**ASPHALTIC CONCRETE**					
0.30 / 180.59	**GRAVEL (GWS)** - well graded crushed gravel with sand					
	FILL - mixture of clay fill with foundry sand,	0.5		1.0	SPT	8
	mottled black-brown	1.0		3.0	SPT	9
1.50 / 179.39	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization	1.5		5.0	SPT	6
	mottled brown-grey	2.0				
		2.5		7.5	SPT	12
		3.0				
		3.5		10.0	SPT	26
	brown	4.0		12.5	SPT	26
		4.5				
		5.0		15.0	SPT	13
	grey	5.5				
		6.0		18.0	SPT	12
6.10 / 174.79	End of Testhole	6.5				

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE DMT or CPTu(◆)
STANDARD ● DMT or CPT OCR ▲
DYN.CONE ○
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL DATA: No Well

ELEV. (m): 180, 179, 178, 177, 176, 175

REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL

- Sample 7/0.5 was submitted for chemical analysis
- Sample 7/2.5 was submitted for chemical analysis
- Sample 7/15.0 was submitted for chemical analysis
- Testhole open & dry upon completion

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REVIEWING PROFESSIONAL:
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N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **8**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D50 Truck**
Method: **S/S Auger**
Size: **165 mm Dia.**
Date: **2025-05-29** TO **2025-05-29**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL
0.08 / 180.92	**ASPHALTIC CONCRETE**		
	GRAVEL (GWS) - well graded crushed gravel with sand		
0.45 / 180.54	**FILL** - mixture of clay fill with embedded sand & gravel, traces of organics black	0.5	
1.05 / 179.94	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization	1.0	
	mottled brown-grey	1.5	
		2.0	
		2.5	
	brown	3.0	
		3.5	
		4.0	
		4.5	
	grey	5.0	
		5.5	
6.10 / 174.89		6.0	
	End of Testhole	6.5	

Ground Elev: **180.99** m

SAMP ID	TYPE	N-VALUE (N_{60})
1.5	SPT	11
3.5	SPT	11
5.0	SPT	18
7.5	SPT	27
10.0	SPT	30
12.5	SPT	33
15.0	SPT	16
18.0	SPT	9

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE
STANDARD ● DMT or CPTu(◆)◆
DYN.CONE ○ DMT or CPT OCR ▲
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL DATA: No Well

ELEV. (m): 180, 179, 178, 177, 176, 175

REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL

- Sample 8/1.5 was submitted for chemical analysis
- Sample 8/3.5 was submitted for chemical analysis
- Sample 8/15.0 was submitted for chemical analysis
- Sample 8/18.0 was submitted for chemical analysis
- Testhole open & dry upon completion

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REVIEWING PROFESSIONAL:
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email ctsoil @ ctsoil.com

N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **9**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **57 mm I.D. H/S Auger**
Size: **159 mm O.D**
Date: **2025-05-30** TO **2025-05-30**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL	SAMP ID	TYPE	N-VALUE N_{60}
0.08 / 181.05	**ASPHALTIC CONCRETE**					
0.30 / 180.83	**GRAVEL (GWS)** - well graded crushed gravel with sand					
	FILL - mixture of clay fill with embedded sand & gravel, traces of red brick pieces and organics, black	0.5		1.0	SPT	12
		1.0		3.0	SPT	7
	mottled brown-grey					
1.50 / 179.63	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization	1.5		5.0	SPT	13
		2.0				
	mottled brown-grey	2.5		7.5	SPT	21
		3.0				
		3.5		10.0	SPT	29
	brown	4.0		12.5	SPT	30
		4.5				
		5.0		15.0	SPT	32
		5.5				
	grey	6.0		18.0	SPT	11
		6.5				
	SILTY CLAY (CL-ML) - with embedded sand & gravel	7.0		23.0	SPT	9
	grey	7.5				
7.60 / 173.53	End of Testhole	8.0				

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE
STANDARD ● DYN.CONE ○
DMT or CPTu(◆)
DMT or CPT OCR ▲
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL DATA: No Well

ELEV. (m)	REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL
181	
	Sample 9/1.0 was submitted for chemical analysis
180	
179	
178	
177	
176	
	Sample 9/18.0 was submitted for chemical analysis
175	
174	
	Testhole open & dry upon completion

REVIEWING PROFESSIONAL:
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N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **10**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **83 mm I.D. H/S Auger**
Size: **159 mm O.D**
Date: **2025-05-29** TO **2025-05-29**

SOIL LITHOLOGY

DESCRIPTION *DMT*

Ground Elev: **180.77** m

EL/DPT (m)	DESCRIPTION	DEPTH (m)
0.08 / 180.70	**ASPHALTIC CONCRETE**	
0.30 / 180.47	**GRAVEL (GWS)** - well graded crushed gravel with sand	
	FILL - mixture of clay fill with sand and embedded gravel, traces of organics and red brick pieces black	0.5
		1.0
	mottled brown-grey	
1.50 / 179.27	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization mottled brown-grey	1.5
		2.0
	TRACES OF SAND POCKETS	2.5
		3.0
		3.5
	brown	4.0
		4.5
	grey	5.0
		5.5
6.10 / 174.67	End of Testhole	6.0
		6.5
		7.0
		7.5
		8.0

SAMP ID	TYPE	N-VALUE$_{80}$
1.0	SPT	7
3.0	SPT	12
5.0	SPT	28
7.5	SPT	34
10.0	SPT	38
12.5	SPT	30
15.0	SPT	20
18.0	SPT	9

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE
STANDARD ● DYN.CONE ○
DMT or CPTu(◆)◆
DMT or CPT OCR ▲
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL DATA: No Well

ELEV. (m)
180
179
178
177
176
175
174
173

REMARKS & GRAIN SIZE DISTRIBUTION %
GR SA SI CL

- Sample 10/1.0 was submitted for chemical analysis
- Sample 10/15.0 was submitted for chemical analysis
- Testhole open & dry upon completion

REVIEWING PROFESSIONAL:
T. Hooley, B.Sc. (Env.)
Soil & Materials Engineering Inc.

C.T. SOIL & MATERIALS TESTING INC.
2000 Legacy Park Drive
WINDSOR, ONTARIO, N8W 5S6
ph. (519) 966-8863, fx. (519) 966-8870
email ctsoil @ ctsoil.com

N60-value: ASTM D1586
N80-value: uncorrected to N60

JOB No: **24E099**

TESTHOLE No. **11**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D25 Track**
Method: **57 mm I.D. H/S Auger**
Size: **159 mm O.D**
Date: **2025-05-30** TO **2025-05-30**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)
	Ground Elev: **181.46** m	
	FILL - mixture of clay fill with crushed gravel and topsoil, traces of organics and fabric pieces	0.5
	mottled brown-grey	1.0
1.50 179.96	**SILTY CLAY (CL-ML)** - with embedded sand & gravel	1.5
	mottled brown-grey	2.0
		2.5
		3.0
		3.5
	brown	4.0
		4.5
	grey	5.0
		5.5
6.10 175.36	End of Testhole	6.0
		6.5
		7.0
		7.5
		8.0

SYMBOL

SAMP ID	TYPE	N-VALUE$_{80}$
2.0	SPT	11
5.0	SPT	26
7.5	SPT	29
10.0	SPT	30
12.5	SPT	30
15.0	SPT	35
18.0	SPT	11

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE DMT or CPTu(◆)
STANDARD ● DMT or CPT OCR ▲
DYN.CONE ○
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL: No Well DATA

ELEV. (m)	REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL
181	
	Sample 11/2.0 was submitted for chemical analysis
180	
179	
178	
177	
	Sample 11/15.0 was submitted for chemical analysis
176	
	Testhole open & dry upon completion
175	
174	

REVIEWING PROFESSIONAL:
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email ctsoil @ ctsoil.com

N60-value: ASTM D1586
N80-value: uncorrected to N60

CTMET 24E099.GPJ BETA.TOM.20241109.GDT 2025-08-25 4:50:34 PM

JOB No: **24E099**

TESTHOLE No. **12**

Dwg. No.:
Sheet 1 of 1

C.T. SOIL & MATERIALS TESTING INC.
WINDSOR ONTARIO

Client: **Radical Capital**

Project: **Phase Two ESA**

Location: **1880 Assumption Street, Windsor, Ontario**

EQUIPMENT DATA
Machine: **Diedrich D50 Truck**
Method: **S/S Auger**
Size: **165 mm Dia.**
Date: **2025-05-29** TO **2025-05-29**

SOIL LITHOLOGY

EL/DPT (m)	DESCRIPTION (DMT)	DEPTH (m)	SYMBOL	SAMP ID	TYPE	N-VALUE N_{60}
0.15 / 180.87	**ASPHALTIC CONCRETE** -					
	FILL - mixture of clay fill with sand & gravel, traces of red brick pieces	0.5		0.5	SPT	51
	mottled brown-grey	1.0		2.5	SPT	9
1.50 / 179.52	**SILTY CLAY (CL-ML)** - with embedded sand & gravel, traces of oxidization	1.5		5.0	SPT	15
	mottled brown-grey	2.5		7.5	SPT	26
		3.0		10.0	SPT	27
	brown	4.0		12.5	SPT	42
		4.5		15.0	SPT	25
	grey	5.5		18.0	SPT	18
6.10 / 174.92	End of Testhole	6.0				
		6.5				
		7.0				
		7.5				
		8.0				

SHEAR STR.(kPa)
DMT or CPTu: Su ● M(bars) ▼
FIELD VANE: Peak × Rem. ⊗
LAB TEST: Unc. ■ P.P. □
50 100 150
PENETR. RESISTANCE
STANDARD ● DMT or CPTu(◆)◆
DYN.CONE ○ DMT or CPT OCR ▲
20 40 60

BULK UNIT WGHT (kN/m3)

WATER CONTENT (%)
Wp W Wl
10 20 30

WELL DATA: No Well

ELEV. (m)	REMARKS & GRAIN SIZE DISTRIBUTION % GR SA SI CL
	Sample 12/0.5 was submitted for chemical analysis
180	Sample 12/2.5 was submitted for chemical analysis
179	
178	
177	
176	
175	Testhole open & dry upon completion
174	

CTMET 24E099.GPJ BETA.TOM.20241109.GDT 2025-08-25 4:50:36 PM

REVIEWING PROFESSIONAL:
T. Hooley, B.Sc. (Env.)
Soil & Materials Engineering Inc.

C.T. SOIL & MATERIALS TESTING INC.
2000 Legacy Park Drive
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email ctsoil @ ctsoil.com

N60-value: ASTM D1586
N80-value: uncorrected to N60

APPENDIX C

Analytical Chain of Custodies

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

Certificate of Analysis

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, ON N8W 5S6
Attn: Tanner Page

Client PO:
Project: 24E099
Custody: 77259, 77260

Report Date: 6-Jun-2025
Order Date: 2-Jun-2025

Order #: 2523059

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

Paracel ID	Client ID
2523059-01	12/0.5
2523059-02	12/2.5
2523059-03	10/1.0
2523059-04	10/15.0
2523059-05	8/1.5
2523059-06	8/3.5
2523059-07	8/15.0
2523059-08	7/1.0
2523059-09	7/3.0
2523059-10	7/15.0
2523059-11	9/1.0
2523059-12	9/18.0
2523059-13	11/2.0
2523059-14	11/15.0
2523059-15	DUP-1
2523059-16	DUP-2
2523059-17	DUP-3

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Certificate of Analysis

Report Date: 06-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 2-Jun-2025

Client PO:

Project Description: 24E099

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	4-Jun-25	4-Jun-25
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	4-Jun-25	5-Jun-25
Mercury by CVAA	EPA 7471B - CVAA, digestion	4-Jun-25	4-Jun-25
pH, soil	MOE E3137 - probe @25 °C, CaCl2 ext	4-Jun-25	4-Jun-25
PHC F1	CWS Tier 1 - P&T GC-FID	4-Jun-25	4-Jun-25
PHC F4G (gravimetric)	CWS Tier 1 - Extraction Gravimetric	5-Jun-25	5-Jun-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	3-Jun-25	4-Jun-25
REG 153: ABNs + PAHs, soil	based on SW-846 8270	4-Jun-25	5-Jun-25
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	4-Jun-25	4-Jun-25
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	4-Jun-25	5-Jun-25
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	4-Jun-25	4-Jun-25
Solids, %	CWS Tier 1 - Gravimetric	3-Jun-25	3-Jun-25

Summary of Criteria Exceedances

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

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

Regulatory Comparison:

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

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Res/Park, fine	-
10/1.0	Arsenic	1.0 ug/g	19.2	18 ug/g	-
10/1.0	Cadmium	0.5 ug/g	1.7	1.2 ug/g	-
10/1.0	Lead	1.0 ug/g	321	120 ug/g	-
10/1.0	Molybdenum	1.0 ug/g	38.2	6.9 ug/g	-
10/1.0	Zinc	20.0 ug/g	686	340 ug/g	-
10/1.0	Dinitrotoluene (2,4 & 2,6)	0.20 ug/g	<4.00 [1]	0.92 ug/g	-
10/1.0	3,3'-Dichlorobenzidine	0.10 ug/g	<2.00 [1]	1 ug/g	-
10/1.0	4-Chloroaniline	0.10 ug/g	<2.00 [1]	0.53 ug/g	-
10/1.0	Acenaphthylene	0.05 ug/g	<1.00 [1]	0.17 ug/g	-
10/1.0	Anthracene	0.05 ug/g	<1.00 [1]	0.74 ug/g	-
10/1.0	Benzo [a] anthracene	0.05 ug/g	<1.00 [1]	0.63 ug/g	-
10/1.0	Benzo [a] pyrene	0.05 ug/g	<1.00 [1]	0.3 ug/g	-
10/1.0	Benzo [b] fluoranthene	0.05 ug/g	1.38 [1]	0.78 ug/g	-
10/1.0	Benzo [k] fluoranthene	0.05 ug/g	<1.00 [1]	0.78 ug/g	-
10/1.0	Bis(2-chloroethyl)ether	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
10/1.0	Bis(2-chloroisopropyl)ether	0.10 ug/g	<2.00 [1]	1.8 ug/g	-
10/1.0	Diethylphthalate	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
10/1.0	Dimethylphthalate	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
10/1.0	Dibenzo [a,h] anthracene	0.10 ug/g	<2.00 [1]	0.1 ug/g	-
10/1.0	Fluoranthene	0.05 ug/g	2.19 [1]	0.69 ug/g	-
10/1.0	Indeno [1,2,3-cd] pyrene	0.05 ug/g	<1.00 [1]	0.48 ug/g	-
10/1.0	Naphthalene	0.05 ug/g	<1.00 [1]	0.75 ug/g	-

Summary of Criteria Exceedances

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Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Res/Park, fine	-
10/1.0	Pentachlorophenol	0.10 ug/g	<2.00 [1]	0.1 ug/g	-
8/1.5	pH	0.05 pH Units	9.63	5.00 - 9.00 pH Units	-
8/1.5	Barium	1.0 ug/g	940	390 ug/g	-
8/1.5	Boron, available	0.5 ug/g	2.3	1.5 ug/g	-
8/1.5	Cadmium	0.5 ug/g	3.2	1.2 ug/g	-
8/1.5	Lead	1.0 ug/g	291	120 ug/g	-
8/1.5	Molybdenum	1.0 ug/g	86.6	6.9 ug/g	-
8/1.5	Zinc	20.0 ug/g	1390	340 ug/g	-
8/1.5	Trichloroethylene	0.05 ug/g	1.04	0.52 ug/g	-
8/1.5	F2 PHCs (C10-C16)	4 ug/g	549	150 ug/g	-
8/1.5	F3 PHCs (C16-C34)	8 ug/g	8310	1300 ug/g	-
8/1.5	F4G PHCs (gravimetric)	50 ug/g	10100	5600 ug/g	-
8/1.5	Acenaphthylene	0.02 ug/g	0.33	0.17 ug/g	-
8/1.5	Benzo [a] anthracene	0.02 ug/g	1.28	0.63 ug/g	-
8/1.5	Benzo [a] pyrene	0.02 ug/g	1.36	0.3 ug/g	-
8/1.5	Benzo [b] fluoranthene	0.02 ug/g	1.36	0.78 ug/g	-
8/1.5	Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [2]	0.1 ug/g	-
8/1.5	Fluoranthene	0.02 ug/g	4.74	0.69 ug/g	-
8/1.5	Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.92	0.48 ug/g	-
8/3.5	F2 PHCs (C10-C16)	4 ug/g	224	150 ug/g	-
7/1.0	Molybdenum	1.0 ug/g	8.6	6.9 ug/g	-
7/1.0	Dinitrotoluene (2,4 & 2,6)	0.20 ug/g	<4.00 [1]	0.92 ug/g	-

Summary of Criteria Exceedances

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

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Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Res/Park, fine	-
7/1.0	3,3'-Dichlorobenzidine	0.10 ug/g	<2.00 [1]	1 ug/g	-
7/1.0	4-Chloroaniline	0.10 ug/g	<2.00 [1]	0.53 ug/g	-
7/1.0	Acenaphthylene	0.05 ug/g	<1.00 [1]	0.17 ug/g	-
7/1.0	Anthracene	0.05 ug/g	<1.00 [1]	0.74 ug/g	-
7/1.0	Benzo [a] anthracene	0.05 ug/g	<1.00 [1]	0.63 ug/g	-
7/1.0	Benzo [a] pyrene	0.05 ug/g	<1.00 [1]	0.3 ug/g	-
7/1.0	Benzo [b] fluoranthene	0.05 ug/g	<1.00 [1]	0.78 ug/g	-
7/1.0	Benzo [k] fluoranthene	0.05 ug/g	<1.00 [1]	0.78 ug/g	-
7/1.0	Bis(2-chloroethyl)ether	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
7/1.0	Bis(2-chloroisopropyl)ether	0.10 ug/g	<2.00 [1]	1.8 ug/g	-
7/1.0	Diethylphthalate	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
7/1.0	Dimethylphthalate	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
7/1.0	Dibenzo [a,h] anthracene	0.10 ug/g	<2.00 [1]	0.1 ug/g	-
7/1.0	Fluoranthene	0.05 ug/g	<1.00 [1]	0.69 ug/g	-
7/1.0	Indeno [1,2,3-cd] pyrene	0.05 ug/g	<1.00 [1]	0.48 ug/g	-
7/1.0	Naphthalene	0.05 ug/g	<1.00 [1]	0.75 ug/g	-
7/1.0	Pentachlorophenol	0.10 ug/g	<2.00 [1]	0.1 ug/g	-
9/1.0	Boron, available	0.5 ug/g	1.6	1.5 ug/g	-
9/1.0	Cadmium	0.5 ug/g	1.5	1.2 ug/g	-
9/1.0	Lead	1.0 ug/g	122	120 ug/g	-
9/1.0	Molybdenum	1.0 ug/g	7.4	6.9 ug/g	-
9/1.0	Zinc	20.0 ug/g	510	340 ug/g	-

Summary of Criteria Exceedances

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Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Res/Park, fine	-
9/1.0	Trichloroethylene	0.05 ug/g	1.27	0.52 ug/g	-
DUP-1	Molybdenum	1.0 ug/g	9.1	6.9 ug/g	-
DUP-1	Dinitrotoluene (2,4 & 2,6)	0.20 ug/g	<4.00 [1]	0.92 ug/g	-
DUP-1	3,3'-Dichlorobenzidine	0.10 ug/g	<2.00 [1]	1 ug/g	-
DUP-1	4-Chloroaniline	0.10 ug/g	<2.00 [1]	0.53 ug/g	-
DUP-1	Acenaphthylene	0.05 ug/g	<1.00 [1]	0.17 ug/g	-
DUP-1	Anthracene	0.05 ug/g	<1.00 [1]	0.74 ug/g	-
DUP-1	Benzo [a] anthracene	0.05 ug/g	<1.00 [1]	0.63 ug/g	-
DUP-1	Benzo [a] pyrene	0.05 ug/g	<1.00 [1]	0.3 ug/g	-
DUP-1	Benzo [b] fluoranthene	0.05 ug/g	<1.00 [1]	0.78 ug/g	-
DUP-1	Benzo [k] fluoranthene	0.05 ug/g	<1.00 [1]	0.78 ug/g	-
DUP-1	Bis(2-chloroethyl)ether	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
DUP-1	Bis(2-chloroisopropyl)ether	0.10 ug/g	<2.00 [1]	1.8 ug/g	-
DUP-1	Diethylphthalate	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
DUP-1	Dimethylphthalate	0.10 ug/g	<2.00 [1]	0.5 ug/g	-
DUP-1	Dibenzo [a,h] anthracene	0.10 ug/g	<2.00 [1]	0.1 ug/g	-
DUP-1	Fluoranthene	0.05 ug/g	<1.00 [1]	0.69 ug/g	-
DUP-1	Indeno [1,2,3-cd] pyrene	0.05 ug/g	<1.00 [1]	0.48 ug/g	-
DUP-1	Naphthalene	0.05 ug/g	<1.00 [1]	0.75 ug/g	-
DUP-1	Pentachlorophenol	0.10 ug/g	<2.00 [1]	0.1 ug/g	-

Certificate of Analysis

Report Date: 06-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 2-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	12/0.5	12/2.5	10/1.0	10/15.0	Criteria:	
	Sample Date:	29-May-25 09:30	29-May-25 09:40	29-May-25 10:45	29-May-25 11:15	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-01	2523059-02	2523059-03	2523059-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	82.3	83.4	82.5	86.1	-	-
General Inorganics							
pH	0.05 pH Units	-	7.62	7.37	7.89	5.00 - 9.00 pH Units	-
Metals							
Antimony	1.0 ug/g	<1.0	-	3.6	-	7.5 ug/g	-
Arsenic	1.0 ug/g	12.1	-	19.2	-	18 ug/g	-
Barium	1.0 ug/g	141	-	242	-	390 ug/g	-
Beryllium	0.5 ug/g	1.1	-	1.1	-	5 ug/g	-
Boron	5.0 ug/g	17.8	-	15.2	-	120 ug/g	-
Boron, available	0.5 ug/g	0.9	-	1.5	-	1.5 ug/g	-
Cadmium	0.5 ug/g	<0.5	-	1.7	-	1.2 ug/g	-
Chromium (VI)	0.2 ug/g	0.5	-	<0.2	-	10 ug/g	-
Chromium	5.0 ug/g	33.8	-	116	-	160 ug/g	-
Cobalt	1.0 ug/g	15.0	-	15.1	-	22 ug/g	-
Copper	5.0 ug/g	24.7	-	101	-	180 ug/g	-
Lead	1.0 ug/g	30.5	-	321	-	120 ug/g	-
Mercury	0.1 ug/g	<0.1	-	0.5	-	1.8 ug/g	-
Molybdenum	1.0 ug/g	2.5	-	38.2	-	6.9 ug/g	-
Nickel	5.0 ug/g	40.3	-	34.5	-	130 ug/g	-
Selenium	1.0 ug/g	<1.0	-	1.8	-	2.4 ug/g	-
Silver	0.3 ug/g	<0.3	-	<0.3	-	25 ug/g	-
Thallium	1.0 ug/g	<1.0	-	<1.0	-	1 ug/g	-
Uranium	1.0 ug/g	1.4	-	1.0	-	23 ug/g	-
Vanadium	10.0 ug/g	59.2	-	67.4	-	86 ug/g	-
Zinc	20.0 ug/g	113	-	686	-	340 ug/g	-

	Client ID:	12/0.5	12/2.5	10/1.0	10/15.0	Criteria:	
	Sample Date:	29-May-25 09:30	29-May-25 09:40	29-May-25 10:45	29-May-25 11:15	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-01	2523059-02	2523059-03	2523059-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Acetone	0.50 ug/g	-	<0.50	<0.50	<0.50	28 ug/g	-
Benzene	0.02 ug/g	-	<0.02	<0.02	<0.02	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	-	<0.05	<0.05	<0.05	13 ug/g	-
Bromoform	0.05 ug/g	-	<0.05	<0.05	<0.05	0.26 ug/g	-
Bromomethane	0.05 ug/g	-	<0.05	<0.05	<0.05	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	-	<0.05	<0.05	<0.05	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	-	<0.05	<0.05	<0.05	2.7 ug/g	-
Chloroform	0.05 ug/g	-	<0.05	<0.05	<0.05	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	-	<0.05	<0.05	<0.05	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	<0.05	<0.05	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	<0.05	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	<0.05	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	<0.05	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	-	<0.05	<0.05	<0.05	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	-	<0.05	<0.05	<0.05	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	<0.05	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	<0.05	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	<0.05	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	-	<0.05	<0.05	<0.05	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	<0.05	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	<0.05	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	<0.05	<0.05	0.083 ug/g	-
Ethylbenzene	0.05 ug/g	-	<0.05	<0.05	<0.05	15 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	<0.05	<0.05	0.05 ug/g	-
Hexane	0.05 ug/g	-	<0.05	<0.05	<0.05	34 ug/g	-

	Client ID:	12/0.5	12/2.5	10/1.0	10/15.0	Criteria:	
	Sample Date:	29-May-25 09:30	29-May-25 09:40	29-May-25 10:45	29-May-25 11:15	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-01	2523059-02	2523059-03	2523059-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	<0.50	<0.50	44 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	<0.50	<0.50	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	<0.05	<0.05	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	-	<0.05	<0.05	<0.05	0.96 ug/g	-
Styrene	0.05 ug/g	-	<0.05	<0.05	<0.05	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	<0.05	<0.05	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	<0.05	<0.05	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	-	<0.05	<0.05	<0.05	2.3 ug/g	-
Toluene	0.05 ug/g	-	<0.05	<0.05	<0.05	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	<0.05	<0.05	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	<0.05	<0.05	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	-	<0.05	<0.05	<0.05	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	-	<0.05	<0.05	<0.05	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	-	<0.02	<0.02	<0.02	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	-	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	-	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	-	<0.05	<0.05	<0.05	25 ug/g	-
4-Bromofluorobenzene	Surrogate	-	101%	102%	100%	-	-
Toluene-d8	Surrogate	-	116%	117%	115%	-	-
Dibromofluoromethane	Surrogate	-	84.9%	83.8%	83.4%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	<7	<7	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	-	<4	<4	10	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	-	<8	59	18	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	-	<6	64	<6	5600 ug/g	-

	Client ID:	12/0.5	12/2.5	10/1.0	10/15.0	Criteria:	
	Sample Date:	29-May-25 09:30	29-May-25 09:40	29-May-25 10:45	29-May-25 11:15	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-01	2523059-02	2523059-03	2523059-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	-	58 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	0.17 ug/g	-
Anthracene	0.02 ug/g	<0.02	-	-	-	0.74 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	0.63 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.78 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	7.8 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.78 ug/g	-
Chrysene	0.02 ug/g	<0.02	-	-	-	7.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	0.1 ug/g	-
Fluoranthene	0.02 ug/g	0.03	-	-	-	0.69 ug/g	-
Fluorene	0.02 ug/g	<0.02	-	-	-	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	0.48 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	3.4 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	3.4 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	-	3.4 ug/g	-
Naphthalene	0.01 ug/g	<0.01	-	-	-	0.75 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	-	-	-	7.8 ug/g	-
Pyrene	0.02 ug/g	0.02	-	-	-	78 ug/g	-
2-Fluorobiphenyl	Surrogate	78.3%	-	-	-	-	-
Terphenyl-d14	Surrogate	67.4%	-	-	-	-	-
1,2,4-Trichlorobenzene	0.05 ug/g	-	-	<1.00 [1]	-	1.4 ug/g	-
1-Methylnaphthalene	0.05 ug/g	-	-	<1.00 [1]	-	3.4 ug/g	-
2-Methylnaphthalene	0.05 ug/g	-	-	<1.00 [1]	-	3.4 ug/g	-
Methylnaphthalene (1&2)	0.05 ug/g	-	-	<1.00 [1]	-	3.4 ug/g	-

	Client ID:	12/0.5	12/2.5	10/1.0	10/15.0	Criteria:	
	Sample Date:	29-May-25 09:30	29-May-25 09:40	29-May-25 10:45	29-May-25 11:15	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-01	2523059-02	2523059-03	2523059-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
2,4-Dinitrotoluene	0.10 ug/g	-	-	<2.00 [1]	-	-	-
2,6-Dinitrotoluene	0.10 ug/g	-	-	<2.00 [1]	-	-	-
Dinitrotoluene (2,4 & 2,6)	0.20 ug/g	-	-	<4.00 [1]	-	0.92 ug/g	-
3,3'-Dichlorobenzidine	0.10 ug/g	-	-	<2.00 [1]	-	1 ug/g	-
4-Chloroaniline	0.10 ug/g	-	-	<2.00 [1]	-	0.53 ug/g	-
Acenaphthene	0.05 ug/g	-	-	<1.00 [1]	-	58 ug/g	-
Acenaphthylene	0.05 ug/g	-	-	<1.00 [1]	-	0.17 ug/g	-
Anthracene	0.05 ug/g	-	-	<1.00 [1]	-	0.74 ug/g	-
Benzo [a] anthracene	0.05 ug/g	-	-	<1.00 [1]	-	0.63 ug/g	-
Benzo [a] pyrene	0.05 ug/g	-	-	<1.00 [1]	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.05 ug/g	-	-	1.38 [1]	-	0.78 ug/g	-
Benzo [g,h,i] perylene	0.05 ug/g	-	-	<1.00 [1]	-	7.8 ug/g	-
Benzo [k] fluoranthene	0.05 ug/g	-	-	<1.00 [1]	-	0.78 ug/g	-
Biphenyl	0.05 ug/g	-	-	<1.00 [1]	-	1.1 ug/g	-
Bis(2-chloroethyl)ether	0.10 ug/g	-	-	<2.00 [1]	-	0.5 ug/g	-
Bis(2-chloroisopropyl)ether	0.10 ug/g	-	-	<2.00 [1]	-	1.8 ug/g	-
Bis(2-ethylhexyl)phthalate	0.10 ug/g	-	-	<2.00 [1]	-	5 ug/g	-
Chrysene	0.05 ug/g	-	-	1.12 [1]	-	7.8 ug/g	-
Diethylphthalate	0.10 ug/g	-	-	<2.00 [1]	-	0.5 ug/g	-
Dimethylphthalate	0.10 ug/g	-	-	<2.00 [1]	-	0.5 ug/g	-
Dibenzo [a,h] anthracene	0.10 ug/g	-	-	<2.00 [1]	-	0.1 ug/g	-
Fluoranthene	0.05 ug/g	-	-	2.19 [1]	-	0.69 ug/g	-
Fluorene	0.05 ug/g	-	-	<1.00 [1]	-	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.05 ug/g	-	-	<1.00 [1]	-	0.48 ug/g	-
Naphthalene	0.05 ug/g	-	-	<1.00 [1]	-	0.75 ug/g	-

	Client ID:	12/0.5	12/2.5	10/1.0	10/15.0	Criteria:	
	Sample Date:	29-May-25 09:30	29-May-25 09:40	29-May-25 10:45	29-May-25 11:15	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-01	2523059-02	2523059-03	2523059-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Phenanthrene	0.05 ug/g	-	-	1.15 [1]	-	7.8 ug/g	-
Pyrene	0.05 ug/g	-	-	1.76 [1]	-	78 ug/g	-
2,4,5-Trichlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	5.5 ug/g	-
2,4,6-Trichlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	4.2 ug/g	-
2,4-Dichlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	2.1 ug/g	-
2,4-Dimethylphenol	0.10 ug/g	-	-	<2.00 [1]	-	420 ug/g	-
2,4-Dinitrophenol	0.10 ug/g	-	-	<2.00 [1]	-	38 ug/g	-
2-Chlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	2 ug/g	-
Pentachlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	0.1 ug/g	-
Phenol	0.10 ug/g	-	-	<2.00 [1]	-	9.4 ug/g	-
2-Fluorobiphenyl	Surrogate	-	-	109% [1]	-	-	-
Nitrobenzene-d5	Surrogate	-	-	95.7% [1]	-	-	-
Terphenyl-d14	Surrogate	-	-	123% [1]	-	-	-
2,4,6-Tribromophenol	Surrogate	-	-	90.8% [1]	-	-	-
2-Fluorophenol	Surrogate	-	-	78.6% [1]	-	-	-
Phenol-d6	Surrogate	-	-	67.9% [1]	-	-	-

Certificate of Analysis

Report Date: 06-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 2-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	8/1.5	8/3.5	8/15.0	7/1.0	Criteria:	
	Sample Date:	29-May-25 13:10	29-May-25 13:20	29-May-25 13:45	30-May-25 09:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-05	2523059-06	2523059-07	2523059-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	75.9	84.0	87.3	81.8	-	-
General Inorganics							
pH	0.05 pH Units	9.63	-	8.09	-	5.00 - 9.00 pH Units	-
Metals							
Antimony	1.0 ug/g	3.3	-	-	<1.0	7.5 ug/g	-
Arsenic	1.0 ug/g	13.6	-	-	7.3	18 ug/g	-
Barium	1.0 ug/g	940	-	-	118	390 ug/g	-
Beryllium	0.5 ug/g	0.8	-	-	0.9	5 ug/g	-
Boron, available	0.5 ug/g	2.3	-	-	0.9	1.5 ug/g	-
Boron	5.0 ug/g	20.9	-	-	12.4	120 ug/g	-
Cadmium	0.5 ug/g	3.2	-	-	<0.5	1.2 ug/g	-
Chromium (VI)	0.2 ug/g	<0.2	-	-	0.2	10 ug/g	-
Chromium	5.0 ug/g	80.9	-	-	29.7	160 ug/g	-
Cobalt	1.0 ug/g	10.2	-	-	8.4	22 ug/g	-
Copper	5.0 ug/g	139	-	-	18.4	180 ug/g	-
Lead	1.0 ug/g	291	-	-	14.6	120 ug/g	-
Mercury	0.1 ug/g	0.2	-	-	<0.1	1.8 ug/g	-
Molybdenum	1.0 ug/g	86.6	-	-	8.6	6.9 ug/g	-
Nickel	5.0 ug/g	30.0	-	-	22.1	130 ug/g	-
Selenium	1.0 ug/g	<1.0	-	-	<1.0	2.4 ug/g	-
Silver	0.3 ug/g	<0.3	-	-	<0.3	25 ug/g	-
Thallium	1.0 ug/g	<1.0	-	-	<1.0	1 ug/g	-
Uranium	1.0 ug/g	<1.0	-	-	1.4	23 ug/g	-
Vanadium	10.0 ug/g	59.3	-	-	44.5	86 ug/g	-
Zinc	20.0 ug/g	1390	-	-	125	340 ug/g	-

	Client ID:	8/1.5	8/3.5	8/15.0	7/1.0	Criteria:	
	Sample Date:	29-May-25 13:10	29-May-25 13:20	29-May-25 13:45	30-May-25 09:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-05	2523059-06	2523059-07	2523059-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Acetone	0.50 ug/g	<0.50	<0.50	<0.50	-	28 ug/g	-
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	-	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	<0.05	<0.05	<0.05	-	13 ug/g	-
Bromoform	0.05 ug/g	<0.05	<0.05	<0.05	-	0.26 ug/g	-
Bromomethane	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	<0.05	<0.05	<0.05	-	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	-	2.7 ug/g	-
Chloroform	0.05 ug/g	<0.05	<0.05	<0.05	-	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	<0.05	<0.05	<0.05	-	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	-	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	-	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	-	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	-	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	-	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	0.94	0.14	<0.05	-	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	0.08	<0.05	<0.05	-	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	<0.05	<0.05	<0.05	-	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	<0.05	<0.05	-	0.083 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
Ethylbenzene	0.05 ug/g	0.22	<0.05	<0.05	-	15 ug/g	-
Hexane	0.05 ug/g	<0.05	<0.05	<0.05	-	34 ug/g	-

	Client ID:	8/1.5	8/3.5	8/15.0	7/1.0	Criteria:	
	Sample Date:	29-May-25 13:10	29-May-25 13:20	29-May-25 13:45	30-May-25 09:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-05	2523059-06	2523059-07	2523059-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50	<0.50	-	44 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50	<0.50	-	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	<0.05	<0.05	-	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	<0.05	<0.05	<0.05	-	0.96 ug/g	-
Styrene	0.05 ug/g	<0.05	<0.05	<0.05	-	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	-	2.3 ug/g	-
Toluene	0.05 ug/g	0.48	<0.05	<0.05	-	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	-	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	-	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	1.04	0.20	<0.05	-	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	-	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	<0.02	<0.02	<0.02	-	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	1.30	0.18	<0.05	-	-	-
o-Xylene	0.05 ug/g	0.72	0.12	<0.05	-	-	-
Xylenes, total	0.05 ug/g	2.02	0.29	<0.05	-	25 ug/g	-
4-Bromofluorobenzene	Surrogate	107%	101%	101%	-	-	-
Toluene-d8	Surrogate	120%	118%	114%	-	-	-
Dibromofluoromethane	Surrogate	95.2%	86.4%	83.6%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	26	10	<7	-	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	549	224	8	-	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	8310	1020	12	-	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	1080 [3]	113	9	-	5600 ug/g	-

	Client ID:	8/1.5	8/3.5	8/15.0	7/1.0	Criteria:	
	Sample Date:	29-May-25 13:10	29-May-25 13:20	29-May-25 13:45	30-May-25 09:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-05	2523059-06	2523059-07	2523059-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Hydrocarbons							
F4G PHCs (gravimetric)	50 ug/g	10100	-	-	-	5600 ug/g	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	0.31	-	-	-	58 ug/g	-
Acenaphthylene	0.02 ug/g	0.33	-	-	-	0.17 ug/g	-
Anthracene	0.02 ug/g	0.41	-	-	-	0.74 ug/g	-
Benzo [a] anthracene	0.02 ug/g	1.28	-	-	-	0.63 ug/g	-
Benzo [a] pyrene	0.02 ug/g	1.36	-	-	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	1.36	-	-	-	0.78 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	1.12	-	-	-	7.8 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	0.70	-	-	-	0.78 ug/g	-
Chrysene	0.02 ug/g	1.70	-	-	-	7.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.40 [2]	-	-	-	0.1 ug/g	-
Fluoranthene	0.02 ug/g	4.74	-	-	-	0.69 ug/g	-
Fluorene	0.02 ug/g	0.63	-	-	-	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.92	-	-	-	0.48 ug/g	-
1-Methylnaphthalene	0.02 ug/g	0.75	-	-	-	3.4 ug/g	-
2-Methylnaphthalene	0.02 ug/g	0.46	-	-	-	3.4 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	1.21	-	-	-	3.4 ug/g	-
Naphthalene	0.01 ug/g	0.37	-	-	-	0.75 ug/g	-
Phenanthrene	0.02 ug/g	4.22	-	-	-	7.8 ug/g	-
Pyrene	0.02 ug/g	4.22	-	-	-	78 ug/g	-
2-Fluorobiphenyl	Surrogate	92.2%	-	-	-	-	-
Terphenyl-d14	Surrogate	79.2%	-	-	-	-	-
1,2,4-Trichlorobenzene	0.05 ug/g	-	-	-	<1.00 [1]	1.4 ug/g	-
1-Methylnaphthalene	0.05 ug/g	-	-	-	<1.00 [1]	3.4 ug/g	-

	Client ID:	8/1.5	8/3.5	8/15.0	7/1.0	Criteria:	
	Sample Date:	29-May-25 13:10	29-May-25 13:20	29-May-25 13:45	30-May-25 09:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-05	2523059-06	2523059-07	2523059-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
2-Methylnaphthalene	0.05 ug/g	-	-	-	<1.00 [1]	3.4 ug/g	-
Methylnaphthalene (1&2)	0.05 ug/g	-	-	-	<1.00 [1]	3.4 ug/g	-
2,4-Dinitrotoluene	0.10 ug/g	-	-	-	<2.00 [1]	-	-
2,6-Dinitrotoluene	0.10 ug/g	-	-	-	<2.00 [1]	-	-
Dinitrotoluene (2,4 & 2,6)	0.20 ug/g	-	-	-	<4.00 [1]	0.92 ug/g	-
3,3'-Dichlorobenzidine	0.10 ug/g	-	-	-	<2.00 [1]	1 ug/g	-
4-Chloroaniline	0.10 ug/g	-	-	-	<2.00 [1]	0.53 ug/g	-
Acenaphthene	0.05 ug/g	-	-	-	<1.00 [1]	58 ug/g	-
Acenaphthylene	0.05 ug/g	-	-	-	<1.00 [1]	0.17 ug/g	-
Anthracene	0.05 ug/g	-	-	-	<1.00 [1]	0.74 ug/g	-
Benzo [a] anthracene	0.05 ug/g	-	-	-	<1.00 [1]	0.63 ug/g	-
Benzo [a] pyrene	0.05 ug/g	-	-	-	<1.00 [1]	0.3 ug/g	-
Benzo [b] fluoranthene	0.05 ug/g	-	-	-	<1.00 [1]	0.78 ug/g	-
Benzo [g,h,i] perylene	0.05 ug/g	-	-	-	<1.00 [1]	7.8 ug/g	-
Benzo [k] fluoranthene	0.05 ug/g	-	-	-	<1.00 [1]	0.78 ug/g	-
Biphenyl	0.05 ug/g	-	-	-	<1.00 [1]	1.1 ug/g	-
Bis(2-chloroethyl)ether	0.10 ug/g	-	-	-	<2.00 [1]	0.5 ug/g	-
Bis(2-chloroisopropyl)ether	0.10 ug/g	-	-	-	<2.00 [1]	1.8 ug/g	-
Bis(2-ethylhexyl)phthalate	0.10 ug/g	-	-	-	<2.00 [1]	5 ug/g	-
Chrysene	0.05 ug/g	-	-	-	<1.00 [1]	7.8 ug/g	-
Diethylphthalate	0.10 ug/g	-	-	-	<2.00 [1]	0.5 ug/g	-
Dimethylphthalate	0.10 ug/g	-	-	-	<2.00 [1]	0.5 ug/g	-
Dibenzo [a,h] anthracene	0.10 ug/g	-	-	-	<2.00 [1]	0.1 ug/g	-
Fluoranthene	0.05 ug/g	-	-	-	<1.00 [1]	0.69 ug/g	-
Fluorene	0.05 ug/g	-	-	-	<1.00 [1]	69 ug/g	-

	Client ID:	8/1.5	8/3.5	8/15.0	7/1.0	Criteria:	
	Sample Date:	29-May-25 13:10	29-May-25 13:20	29-May-25 13:45	30-May-25 09:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-05	2523059-06	2523059-07	2523059-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Indeno [1,2,3-cd] pyrene	0.05 ug/g	-	-	-	<1.00 [1]	0.48 ug/g	-
Naphthalene	0.05 ug/g	-	-	-	<1.00 [1]	0.75 ug/g	-
Phenanthrene	0.05 ug/g	-	-	-	<1.00 [1]	7.8 ug/g	-
Pyrene	0.05 ug/g	-	-	-	<1.00 [1]	78 ug/g	-
2,4,5-Trichlorophenol	0.10 ug/g	-	-	-	<2.00 [1]	5.5 ug/g	-
2,4,6-Trichlorophenol	0.10 ug/g	-	-	-	<2.00 [1]	4.2 ug/g	-
2,4-Dichlorophenol	0.10 ug/g	-	-	-	<2.00 [1]	2.1 ug/g	-
2,4-Dimethylphenol	0.10 ug/g	-	-	-	<2.00 [1]	420 ug/g	-
2,4-Dinitrophenol	0.10 ug/g	-	-	-	<2.00 [1]	38 ug/g	-
2-Chlorophenol	0.10 ug/g	-	-	-	<2.00 [1]	2 ug/g	-
Pentachlorophenol	0.10 ug/g	-	-	-	<2.00 [1]	0.1 ug/g	-
Phenol	0.10 ug/g	-	-	-	<2.00 [1]	9.4 ug/g	-
2-Fluorobiphenyl	Surrogate	-	-	-	72.5% [1]	-	-
Nitrobenzene-d5	Surrogate	-	-	-	58.0% [1]	-	-
Terphenyl-d14	Surrogate	-	-	-	86.4% [1]	-	-
2,4,6-Tribromophenol	Surrogate	-	-	-	66.4% [1]	-	-
2-Fluorophenol	Surrogate	-	-	-	59.8% [1]	-	-
Phenol-d6	Surrogate	-	-	-	51.7% [1]	-	-

PARACEL LABORATORIES LTD.

Order #: 2523059

Certificate of Analysis

Report Date: 06-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 2-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	7/3.0	7/15.0	9/1.0	9/18.0	Criteria:	
	Sample Date:	30-May-25 09:15	30-May-25 09:45	30-May-25 10:45	30-May-25 11:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-09	2523059-10	2523059-11	2523059-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	82.1	85.9	78.0	86.5	-	-
General Inorganics							
pH	0.05 pH Units	-	7.95	7.18	7.84	5.00 - 9.00 pH Units	-
Metals							
Antimony	1.0 ug/g	-	-	1.9	-	7.5 ug/g	-
Arsenic	1.0 ug/g	-	-	14.4	-	18 ug/g	-
Barium	1.0 ug/g	-	-	360	-	390 ug/g	-
Beryllium	0.5 ug/g	-	-	1.2	-	5 ug/g	-
Boron, available	0.5 ug/g	-	-	1.6	-	1.5 ug/g	-
Boron	5.0 ug/g	-	-	15.0	-	120 ug/g	-
Cadmium	0.5 ug/g	-	-	1.5	-	1.2 ug/g	-
Chromium (VI)	0.2 ug/g	-	-	<0.2	-	10 ug/g	-
Chromium	5.0 ug/g	-	-	35.0	-	160 ug/g	-
Cobalt	1.0 ug/g	-	-	11.6	-	22 ug/g	-
Copper	5.0 ug/g	-	-	49.3	-	180 ug/g	-
Lead	1.0 ug/g	-	-	122	-	120 ug/g	-
Mercury	0.1 ug/g	-	-	0.1	-	1.8 ug/g	-
Molybdenum	1.0 ug/g	-	-	7.4	-	6.9 ug/g	-
Nickel	5.0 ug/g	-	-	29.0	-	130 ug/g	-
Selenium	1.0 ug/g	-	-	<1.0	-	2.4 ug/g	-
Silver	0.3 ug/g	-	-	<0.3	-	25 ug/g	-
Thallium	1.0 ug/g	-	-	<1.0	-	1 ug/g	-
Uranium	1.0 ug/g	-	-	1.7	-	23 ug/g	-
Vanadium	10.0 ug/g	-	-	61.4	-	86 ug/g	-
Zinc	20.0 ug/g	-	-	510	-	340 ug/g	-

	Client ID:	7/3.0	7/15.0	9/1.0	9/18.0	Criteria:	
	Sample Date:	30-May-25 09:15	30-May-25 09:45	30-May-25 10:45	30-May-25 11:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-09	2523059-10	2523059-11	2523059-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Acetone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	28 ug/g	-
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	13 ug/g	-
Bromoform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.26 ug/g	-
Bromomethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	2.7 ug/g	-
Chloroform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.083 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	15 ug/g	-
Hexane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	34 ug/g	-

Certificate of Analysis

Report Date: 06-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 2-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	7/3.0	7/15.0	9/1.0	9/18.0	Criteria:	
	Sample Date:	30-May-25 09:15	30-May-25 09:45	30-May-25 10:45	30-May-25 11:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-09	2523059-10	2523059-11	2523059-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	44 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.96 ug/g	-
Styrene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	2.3 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	<0.05	<0.05	1.27	<0.05	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	25 ug/g	-
Dibromofluoromethane	Surrogate	87.1%	85.0%	85.1%	78.7%	-	-
Toluene-d8	Surrogate	117%	116%	120%	116%	-	-
4-Bromofluorobenzene	Surrogate	106%	102%	104%	99.3%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	27	9	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	<8	<8	114	10	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	<6	<6	26	<6	5600 ug/g	-

	Client ID:	7/3.0	7/15.0	9/1.0	9/18.0	Criteria:	
	Sample Date:	30-May-25 09:15	30-May-25 09:45	30-May-25 10:45	30-May-25 11:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-09	2523059-10	2523059-11	2523059-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	-	<0.02	-	58 ug/g	-
Acenaphthylene	0.02 ug/g	-	-	<0.02	-	0.17 ug/g	-
Anthracene	0.02 ug/g	-	-	<0.02	-	0.74 ug/g	-
Benzo [a] anthracene	0.02 ug/g	-	-	<0.02	-	0.63 ug/g	-
Benzo [a] pyrene	0.02 ug/g	-	-	<0.02	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	-	-	<0.02	-	0.78 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	-	-	<0.02	-	7.8 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	-	-	<0.02	-	0.78 ug/g	-
Chrysene	0.02 ug/g	-	-	0.03	-	7.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	-	<0.02	-	0.1 ug/g	-
Fluoranthene	0.02 ug/g	-	-	0.03	-	0.69 ug/g	-
Fluorene	0.02 ug/g	-	-	<0.02	-	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	-	<0.02	-	0.48 ug/g	-
1-Methylnaphthalene	0.02 ug/g	-	-	0.07	-	3.4 ug/g	-
2-Methylnaphthalene	0.02 ug/g	-	-	0.08	-	3.4 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	-	-	0.15	-	3.4 ug/g	-
Naphthalene	0.01 ug/g	-	-	0.02	-	0.75 ug/g	-
Phenanthrene	0.02 ug/g	-	-	0.04	-	7.8 ug/g	-
Pyrene	0.02 ug/g	-	-	0.05	-	78 ug/g	-
2-Fluorobiphenyl	Surrogate	-	-	69.7%	-	-	-
Terphenyl-d14	Surrogate	-	-	68.0%	-	-	-

Certificate of Analysis

Report Date: 06-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 2-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	11/2.0	11/15.0	DUP-1	DUP-2	Criteria:	
	Sample Date:	30-May-25 13:15	30-May-25 14:00	30-May-25 06:00	30-May-25 06:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-13	2523059-14	2523059-15	2523059-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	86.9	87.8	81.0	85.7	-	-
General Inorganics							
pH	0.05 pH Units	7.72	7.90	-	7.77	5.00 - 9.00 pH Units	-
Metals							
Antimony	1.0 ug/g	<1.0	-	<1.0	<1.0	7.5 ug/g	-
Arsenic	1.0 ug/g	9.2	-	8.9	10.3	18 ug/g	-
Barium	1.0 ug/g	84.5	-	147	105	390 ug/g	-
Beryllium	0.5 ug/g	0.9	-	1.0	1.1	5 ug/g	-
Boron	5.0 ug/g	18.2	-	13.2	21.3	120 ug/g	-
Boron, available	0.5 ug/g	<0.5	-	1.0	<0.5	1.5 ug/g	-
Cadmium	0.5 ug/g	<0.5	-	0.6	<0.5	1.2 ug/g	-
Chromium (VI)	0.2 ug/g	0.2	-	<0.2	0.2	10 ug/g	-
Chromium	5.0 ug/g	28.9	-	34.9	33.7	160 ug/g	-
Cobalt	1.0 ug/g	12.2	-	9.7	13.7	22 ug/g	-
Copper	5.0 ug/g	21.5	-	31.5	24.7	180 ug/g	-
Lead	1.0 ug/g	12.1	-	42.9	14.2	120 ug/g	-
Mercury	0.1 ug/g	<0.1	-	0.2	<0.1	1.8 ug/g	-
Molybdenum	1.0 ug/g	3.9	-	9.1	4.1	6.9 ug/g	-
Nickel	5.0 ug/g	31.1	-	25.0	36.8	130 ug/g	-
Selenium	1.0 ug/g	<1.0	-	<1.0	<1.0	2.4 ug/g	-
Silver	0.3 ug/g	<0.3	-	<0.3	<0.3	25 ug/g	-
Thallium	1.0 ug/g	<1.0	-	<1.0	<1.0	1 ug/g	-
Uranium	1.0 ug/g	1.1	-	1.4	1.3	23 ug/g	-
Vanadium	10.0 ug/g	47.1	-	49.7	51.7	86 ug/g	-
Zinc	20.0 ug/g	62.7	-	294	68.2	340 ug/g	-

	Client ID:	11/2.0	11/15.0	DUP-1	DUP-2	Criteria:	
	Sample Date:	30-May-25 13:15	30-May-25 14:00	30-May-25 06:00	30-May-25 06:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-13	2523059-14	2523059-15	2523059-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Acetone	0.50 ug/g	-	<0.50	-	-	28 ug/g	-
Benzene	0.02 ug/g	-	<0.02	-	-	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	-	<0.05	-	-	13 ug/g	-
Bromoform	0.05 ug/g	-	<0.05	-	-	0.26 ug/g	-
Bromomethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	-	<0.05	-	-	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	-	<0.05	-	-	2.7 ug/g	-
Chloroform	0.05 ug/g	-	<0.05	-	-	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	-	<0.05	-	-	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	-	-	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	-	<0.05	-	-	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	-	<0.05	-	-	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	-	-	0.083 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	-
Ethylbenzene	0.05 ug/g	-	<0.05	-	-	15 ug/g	-
Hexane	0.05 ug/g	-	<0.05	-	-	34 ug/g	-

	Client ID:	11/2.0	11/15.0	DUP-1	DUP-2	Criteria:	
	Sample Date:	30-May-25 13:15	30-May-25 14:00	30-May-25 06:00	30-May-25 06:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-13	2523059-14	2523059-15	2523059-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	-	-	44 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	-	-	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	-	-	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	-	<0.05	-	-	0.96 ug/g	-
Styrene	0.05 ug/g	-	<0.05	-	-	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	-	<0.05	-	-	2.3 ug/g	-
Toluene	0.05 ug/g	-	<0.05	-	-	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	-	-	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	-	<0.05	-	-	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	-	<0.05	-	-	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	-	<0.02	-	-	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	-	<0.05	-	-	-	-
o-Xylene	0.05 ug/g	-	<0.05	-	-	-	-
Xylenes, total	0.05 ug/g	-	<0.05	-	-	25 ug/g	-
Dibromofluoromethane	Surrogate	-	83.2%	-	-	-	-
Toluene-d8	Surrogate	-	115%	-	-	-	-
4-Bromofluorobenzene	Surrogate	-	99.6%	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	-	-	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	-	10	-	-	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	-	14	-	-	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	-	<6	-	-	5600 ug/g	-

	Client ID:	11/2.0	11/15.0	DUP-1	DUP-2	Criteria:	
	Sample Date:	30-May-25 13:15	30-May-25 14:00	30-May-25 06:00	30-May-25 06:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-13	2523059-14	2523059-15	2523059-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	<0.02	58 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	<0.02	0.17 ug/g	-
Anthracene	0.02 ug/g	<0.02	-	-	<0.02	0.74 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	<0.02	0.63 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	<0.02	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	0.78 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	<0.02	7.8 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	0.78 ug/g	-
Chrysene	0.02 ug/g	<0.02	-	-	<0.02	7.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.02	-	-	0.05	0.69 ug/g	-
Fluorene	0.02 ug/g	<0.02	-	-	<0.02	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	<0.02	0.48 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	<0.02	3.4 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	<0.02	3.4 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	<0.04	3.4 ug/g	-
Naphthalene	0.01 ug/g	<0.01	-	-	<0.01	0.75 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	-	-	0.04	7.8 ug/g	-
Pyrene	0.02 ug/g	<0.02	-	-	0.04	78 ug/g	-
2-Fluorobiphenyl	Surrogate	66.2%	-	-	92.1%	-	-
Terphenyl-d14	Surrogate	58.6%	-	-	78.5%	-	-
1,2,4-Trichlorobenzene	0.05 ug/g	-	-	<1.00 [1]	-	1.4 ug/g	-
1-Methylnaphthalene	0.05 ug/g	-	-	<1.00 [1]	-	3.4 ug/g	-
2-Methylnaphthalene	0.05 ug/g	-	-	<1.00 [1]	-	3.4 ug/g	-
Methylnaphthalene (1&2)	0.05 ug/g	-	-	<1.00 [1]	-	3.4 ug/g	-

	Client ID:	11/2.0	11/15.0	DUP-1	DUP-2	Criteria:	
	Sample Date:	30-May-25 13:15	30-May-25 14:00	30-May-25 06:00	30-May-25 06:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-13	2523059-14	2523059-15	2523059-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
2,4-Dinitrotoluene	0.10 ug/g	-	-	<2.00 [1]	-	-	-
2,6-Dinitrotoluene	0.10 ug/g	-	-	<2.00 [1]	-	-	-
Dinitrotoluene (2,4 & 2,6)	0.20 ug/g	-	-	<4.00 [1]	-	0.92 ug/g	-
3,3'-Dichlorobenzidine	0.10 ug/g	-	-	<2.00 [1]	-	1 ug/g	-
4-Chloroaniline	0.10 ug/g	-	-	<2.00 [1]	-	0.53 ug/g	-
Acenaphthene	0.05 ug/g	-	-	<1.00 [1]	-	58 ug/g	-
Acenaphthylene	0.05 ug/g	-	-	<1.00 [1]	-	0.17 ug/g	-
Anthracene	0.05 ug/g	-	-	<1.00 [1]	-	0.74 ug/g	-
Benzo [a] anthracene	0.05 ug/g	-	-	<1.00 [1]	-	0.63 ug/g	-
Benzo [a] pyrene	0.05 ug/g	-	-	<1.00 [1]	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.05 ug/g	-	-	<1.00 [1]	-	0.78 ug/g	-
Benzo [g,h,i] perylene	0.05 ug/g	-	-	<1.00 [1]	-	7.8 ug/g	-
Benzo [k] fluoranthene	0.05 ug/g	-	-	<1.00 [1]	-	0.78 ug/g	-
Biphenyl	0.05 ug/g	-	-	<1.00 [1]	-	1.1 ug/g	-
Bis(2-chloroethyl)ether	0.10 ug/g	-	-	<2.00 [1]	-	0.5 ug/g	-
Bis(2-chloroisopropyl)ether	0.10 ug/g	-	-	<2.00 [1]	-	1.8 ug/g	-
Bis(2-ethylhexyl)phthalate	0.10 ug/g	-	-	<2.00 [1]	-	5 ug/g	-
Chrysene	0.05 ug/g	-	-	<1.00 [1]	-	7.8 ug/g	-
Diethylphthalate	0.10 ug/g	-	-	<2.00 [1]	-	0.5 ug/g	-
Dimethylphthalate	0.10 ug/g	-	-	<2.00 [1]	-	0.5 ug/g	-
Dibenzo [a,h] anthracene	0.10 ug/g	-	-	<2.00 [1]	-	0.1 ug/g	-
Fluoranthene	0.05 ug/g	-	-	<1.00 [1]	-	0.69 ug/g	-
Fluorene	0.05 ug/g	-	-	<1.00 [1]	-	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.05 ug/g	-	-	<1.00 [1]	-	0.48 ug/g	-
Naphthalene	0.05 ug/g	-	-	<1.00 [1]	-	0.75 ug/g	-

	Client ID:	11/2.0	11/15.0	DUP-1	DUP-2	Criteria:	
	Sample Date:	30-May-25 13:15	30-May-25 14:00	30-May-25 06:00	30-May-25 06:30	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-13	2523059-14	2523059-15	2523059-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Phenanthrene	0.05 ug/g	-	-	<1.00 [1]	-	7.8 ug/g	-
Pyrene	0.05 ug/g	-	-	<1.00 [1]	-	78 ug/g	-
2,4,5-Trichlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	5.5 ug/g	-
2,4,6-Trichlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	4.2 ug/g	-
2,4-Dichlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	2.1 ug/g	-
2,4-Dimethylphenol	0.10 ug/g	-	-	<2.00 [1]	-	420 ug/g	-
2,4-Dinitrophenol	0.10 ug/g	-	-	<2.00 [1]	-	38 ug/g	-
2-Chlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	2 ug/g	-
Pentachlorophenol	0.10 ug/g	-	-	<2.00 [1]	-	0.1 ug/g	-
Phenol	0.10 ug/g	-	-	<2.00 [1]	-	9.4 ug/g	-
2-Fluorobiphenyl	Surrogate	-	-	122% [1]	-	-	-
Nitrobenzene-d5	Surrogate	-	-	103% [1]	-	-	-
Terphenyl-d14	Surrogate	-	-	141% [1] [5]	-	-	-
2,4,6-Tribromophenol	Surrogate	-	-	84.9% [1]	-	-	-
2-Fluorophenol	Surrogate	-	-	77.0% [1]	-	-	-
Phenol-d6	Surrogate	-	-	66.3% [1]	-	-	-

	Client ID:	DUP-3				**Criteria:**	
	Sample Date:	30-May-25 07:00				**Reg 153/04 -T3 Res/Park, fine**	-
	Sample ID:	2523059-17					
	Matrix:	Soil					
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	87.5	-	-	-	-	-
General Inorganics							
pH	0.05 pH Units	7.95	-	-	-	5.00 - 9.00 pH Units	-
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	-	28 ug/g	-
Benzene	0.02 ug/g	<0.02	-	-	-	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	13 ug/g	-
Bromoform	0.05 ug/g	<0.05	-	-	-	0.26 ug/g	-
Bromomethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	2.7 ug/g	-
Chloroform	0.05 ug/g	<0.05	-	-	-	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-

	Client ID:	DUP-3				Criteria:	
	Sample Date:	30-May-25 07:00				Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2523059-17					
	Matrix:	Soil					
	MDL/Units						
Volatiles							
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	0.083 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	15 ug/g	-
Hexane	0.05 ug/g	<0.05	-	-	-	34 ug/g	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	44 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	0.96 ug/g	-
Styrene	0.05 ug/g	<0.05	-	-	-	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	2.3 ug/g	-
Toluene	0.05 ug/g	<0.05	-	-	-	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	25 ug/g	-
Dibromofluoromethane	Surrogate	79.7%	-	-	-	-	-
Toluene-d8	Surrogate	119%	-	-	-	-	-
4-Bromofluorobenzene	Surrogate	101%	-	-	-	-	-
Hydrocarbons							

	Client ID:	DUP-3				**Criteria:**	
	Sample Date:	30-May-25 07:00				**Reg 153/04 -T3 Res/Park, fine**	-
	Sample ID:	2523059-17					
	Matrix:	Soil					
	MDL/Units						
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	10	-	-	-	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	15	-	-	-	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	-	5600 ug/g	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
F4G PHCs (gravimetric)	ND	50	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron, available	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Mercury	ND	0.1	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*0.986*		*%*	*74.0*	*50-140*			
Surrogate: Terphenyl-d14	*0.871*		*%*	*65.3*	*50-140*			
1,2,4-Trichlorobenzene	ND	0.05	ug/g					
1-Methylnaphthalene	ND	0.05	ug/g					
2-Methylnaphthalene	ND	0.05	ug/g					
Methylnaphthalene (1&2)	ND	0.05	ug/g					
2,4-Dinitrotoluene	ND	0.10	ug/g					
2,6-Dinitrotoluene	ND	0.10	ug/g					
Dinitrotoluene (2,4 & 2,6)	ND	0.20	ug/g					
3,3'-Dichlorobenzidine	ND	0.10	ug/g					
4-Chloroaniline	ND	0.10	ug/g					
Acenaphthene	ND	0.05	ug/g					
Acenaphthylene	ND	0.05	ug/g					
Anthracene	ND	0.05	ug/g					
Benzo [a] anthracene	ND	0.05	ug/g					
Benzo [a] pyrene	ND	0.05	ug/g					
Benzo [b] fluoranthene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [g,h,i] perylene	ND	0.05	ug/g					
Benzo [k] fluoranthene	ND	0.05	ug/g					
Biphenyl	ND	0.05	ug/g					
Bis(2-chloroethyl)ether	ND	0.10	ug/g					
Bis(2-chloroisopropyl)ether	ND	0.10	ug/g					
Bis(2-ethylhexyl)phthalate	ND	0.10	ug/g					
Chrysene	ND	0.05	ug/g					
Diethylphthalate	ND	0.10	ug/g					
Dimethylphthalate	ND	0.10	ug/g					
Dibenzo [a,h] anthracene	ND	0.10	ug/g					
Fluoranthene	ND	0.05	ug/g					
Fluorene	ND	0.05	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/g					
Naphthalene	ND	0.05	ug/g					
Phenanthrene	ND	0.05	ug/g					
Pyrene	ND	0.05	ug/g					
2,4,5-Trichlorophenol	ND	0.10	ug/g					
2,4,6-Trichlorophenol	ND	0.10	ug/g					
2,4-Dichlorophenol	ND	0.10	ug/g					
2,4-Dimethylphenol	ND	0.10	ug/g					
2,4-Dinitrophenol	ND	0.10	ug/g					
2-Chlorophenol	ND	0.10	ug/g					
Pentachlorophenol	ND	0.10	ug/g					
Phenol	ND	0.10	ug/g					
Surrogate: 2-Fluorobiphenyl	*0.587*		*%*	*88.0*	*50-140*			
Surrogate: Nitrobenzene-d5	*0.621*		*%*	*93.2*	*50-140*			
Surrogate: Terphenyl-d14	*0.578*		*%*	*86.8*	*50-140*			
Surrogate: 2,4,6-Tribromophenol	*1.57*		*%*	*118*	*50-140*			
Surrogate: 2-Fluorophenol	*1.37*		*%*	*103*	*50-140*			
Surrogate: Phenol-d6	*1.21*		*%*	*90.7*	*50-140*			
Volatiles								
Acetone	ND	0.50	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	*7.73*		*%*	*96.7*	*50-140*			
Surrogate: Dibromofluoromethane	*5.86*		*%*	*73.3*	*50-140*			
Surrogate: Toluene-d8	*8.64*		*%*	*108*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
pH	7.58	0.05	pH Units	7.62			0.5	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	11.0	1.0	ug/g	12.1			9.6	30	
Barium	105	1.0	ug/g	141			29.1	30	
Beryllium	1.0	0.5	ug/g	1.1			13.8	30	
Boron, available	1.56	0.5	ug/g	1.51			2.8	35	
Boron	13.8	5.0	ug/g	17.8			25.0	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	0.5	0.2	ug/g	0.5			12.5	35	
Chromium	31.1	5.0	ug/g	33.8			8.2	30	
Cobalt	13.2	1.0	ug/g	15.0			12.6	30	
Copper	22.5	5.0	ug/g	24.7			9.6	30	
Lead	26.4	1.0	ug/g	30.5			14.5	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	2.1	1.0	ug/g	2.5			16.9	30	
Nickel	35.2	5.0	ug/g	40.3			13.5	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	1.2	1.0	ug/g	1.4			20.1	30	
Vanadium	47.4	10.0	ug/g	59.2			22.1	30	
Zinc	102	20.0	ug/g	113			10.1	30	
Physical Characteristics									
% Solids	88.3	0.1	% by Wt.	88.2			0.2	25	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	0.039			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	0.030			NC	40	
Surrogate: 2-Fluorobiphenyl	*1.39*		*%*		*92.4*	*50-140*			
Surrogate: Terphenyl-d14	*1.22*		*%*		*81.1*	*50-140*			
1,2,4-Trichlorobenzene	ND	1.00	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	1.00	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	1.00	ug/g	ND			NC	40	
2,4-Dinitrotoluene	ND	2.00	ug/g	ND			NC	40	
2,6-Dinitrotoluene	ND	2.00	ug/g	ND			NC	40	
3,3'-Dichlorobenzidine	ND	2.00	ug/g	ND			NC	40	
4-Chloroaniline	ND	2.00	ug/g	ND			NC	40	
Acenaphthene	ND	1.00	ug/g	ND			NC	40	
Acenaphthylene	ND	1.00	ug/g	ND			NC	40	
Anthracene	ND	1.00	ug/g	ND			NC	40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [a] anthracene	ND	1.00	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	1.00	ug/g	ND			NC	40	
Benzo [b] fluoranthene	1.25	1.00	ug/g	1.38			9.8	40	
Benzo [g,h,i] perylene	ND	1.00	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	1.00	ug/g	ND			NC	40	
Biphenyl	ND	1.00	ug/g	ND			NC	40	
Bis(2-chloroethyl)ether	ND	2.00	ug/g	ND			NC	40	
Bis(2-chloroisopropyl)ether	ND	2.00	ug/g	ND			NC	40	
Bis(2-ethylhexyl)phthalate	ND	2.00	ug/g	ND			NC	40	
Chrysene	1.04	1.00	ug/g	1.12			7.3	40	
Diethylphthalate	ND	2.00	ug/g	ND			NC	40	
Dimethylphthalate	ND	2.00	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	2.00	ug/g	ND			NC	40	
Fluoranthene	2.17	1.00	ug/g	2.19			1.2	40	
Fluorene	ND	1.00	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	1.00	ug/g	ND			NC	40	
Naphthalene	ND	1.00	ug/g	ND			NC	40	
Phenanthrene	1.20	1.00	ug/g	1.15			3.7	40	
Pyrene	1.66	1.00	ug/g	1.76			5.7	40	
2,4,5-Trichlorophenol	ND	2.00	ug/g	ND			NC	40	
2,4,6-Trichlorophenol	ND	2.00	ug/g	ND			NC	40	
2,4-Dichlorophenol	ND	2.00	ug/g	ND			NC	40	
2,4-Dimethylphenol	ND	2.00	ug/g	ND			NC	40	
2,4-Dinitrophenol	ND	2.00	ug/g	ND			NC	40	
2-Chlorophenol	ND	2.00	ug/g	ND			NC	40	
Pentachlorophenol	ND	2.00	ug/g	ND			NC	40	
Phenol	ND	2.00	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	*1.24*		*%*		*154*	*50-140*			*S-06*
Surrogate: Nitrobenzene-d5	*0.887*		*%*		*110*	*50-140*			
Surrogate: Terphenyl-d14	*1.39*		*%*		*172*	*50-140*			*S-06*
Surrogate: 2,4,6-Tribromophenol	*1.31*		*%*		*81.1*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: 2-Fluorophenol	*1.16*		*%*		*71.9*	*50-140*			
Surrogate: Phenol-d6	*0.968*		*%*		*59.9*	*50-140*			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	*9.86*		*%*		*100*	*50-140*			
Surrogate: Dibromofluoromethane	*8.27*		*%*		*84.1*	*50-140*			
Surrogate: Toluene-d8	*11.2*		*%*		*114*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	183	7	ug/g	ND	106	85-115			
F2 PHCs (C10-C16)	89	4	ug/g	ND	97.9	60-140			
F3 PHCs (C16-C34)	219	8	ug/g	ND	98.4	60-140			
F4 PHCs (C34-C50)	133	6	ug/g	ND	94.6	60-140			
F4G PHCs (gravimetric)	820	50	ug/g	ND	82.0	80-120			
Metals									
Antimony	43.9	1.0	ug/g	ND	87.1	70-130			
Arsenic	58.2	1.0	ug/g	4.8	107	70-130			
Barium	102	1.0	ug/g	56.4	91.5	70-130			
Beryllium	60.7	0.5	ug/g	ND	120	70-130			
Boron, available	4.80	0.5	ug/g	1.51	65.8	60-140			
Boron	65.0	5.0	ug/g	7.1	116	70-130			
Cadmium	49.4	0.5	ug/g	ND	98.7	70-130			
Chromium (VI)	5.9	0.2	ug/g	0.5	88.0	48-112			
Chromium	69.6	5.0	ug/g	13.5	112	70-130			
Cobalt	62.0	1.0	ug/g	6.0	112	70-130			
Copper	62.4	5.0	ug/g	9.9	105	70-130			
Lead	63.8	1.0	ug/g	12.2	103	70-130			
Mercury	1.54	0.1	ug/g	ND	102	70-130			
Molybdenum	57.6	1.0	ug/g	1.0	113	70-130			
Nickel	69.1	5.0	ug/g	16.1	106	70-130			
Selenium	49.4	1.0	ug/g	ND	98.5	70-130			
Silver	44.0	0.3	ug/g	ND	87.8	70-130			
Thallium	47.7	1.0	ug/g	ND	95.1	70-130			
Uranium	47.0	1.0	ug/g	ND	92.9	70-130			
Vanadium	81.1	10.0	ug/g	23.7	115	70-130			
Zinc	99.3	20.0	ug/g	45.2	108	70-130			
Semi-Volatiles									
Acenaphthene	0.137	0.02	ug/g	ND	72.6	50-140			
Acenaphthylene	0.135	0.02	ug/g	ND	71.8	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anthracene	0.132	0.02	ug/g	ND	70.2	50-140			
Benzo [a] anthracene	0.137	0.02	ug/g	ND	73.1	50-140			
Benzo [a] pyrene	0.149	0.02	ug/g	ND	79.5	50-140			
Benzo [b] fluoranthene	0.155	0.02	ug/g	ND	82.5	50-140			
Benzo [g,h,i] perylene	0.168	0.02	ug/g	ND	89.4	50-140			
Benzo [k] fluoranthene	0.124	0.02	ug/g	ND	66.0	50-140			
Chrysene	0.149	0.02	ug/g	ND	79.2	50-140			
Dibenzo [a,h] anthracene	0.163	0.02	ug/g	ND	86.6	50-140			
Fluoranthene	0.171	0.02	ug/g	0.039	70.1	50-140			
Fluorene	0.135	0.02	ug/g	ND	71.8	50-140			
Indeno [1,2,3-cd] pyrene	0.162	0.02	ug/g	ND	86.2	50-140			
1-Methylnaphthalene	0.112	0.02	ug/g	ND	59.5	50-140			
2-Methylnaphthalene	0.167	0.02	ug/g	ND	88.6	50-140			
Naphthalene	0.133	0.01	ug/g	ND	70.7	50-140			
Phenanthrene	0.145	0.02	ug/g	ND	77.0	50-140			
Pyrene	0.163	0.02	ug/g	0.030	70.7	50-140			
Surrogate: 2-Fluorobiphenyl	*1.12*		*%*		*74.6*	*50-140*			
Surrogate: Terphenyl-d14	*1.10*		*%*		*73.2*	*50-140*			
1,2,4-Trichlorobenzene	0.24	0.05	ug/g	ND	73.3	50-140			
1-Methylnaphthalene	0.23	0.05	ug/g	ND	68.5	50-140			
2-Methylnaphthalene	0.33	0.05	ug/g	ND	98.1	50-140			
2,4-Dinitrotoluene	0.31	0.10	ug/g	ND	93.4	50-140			
2,6-Dinitrotoluene	0.29	0.10	ug/g	ND	86.0	50-140			
Acenaphthene	0.22	0.05	ug/g	ND	67.1	50-140			
Acenaphthylene	0.21	0.05	ug/g	ND	61.9	50-140			
Anthracene	0.19	0.05	ug/g	ND	56.3	50-140			
Benzo [a] anthracene	0.18	0.05	ug/g	ND	54.3	50-140			
Benzo [a] pyrene	0.18	0.05	ug/g	ND	53.3	50-140			
Benzo [b] fluoranthene	0.22	0.05	ug/g	ND	66.0	50-140			
Benzo [g,h,i] perylene	0.18	0.05	ug/g	ND	53.6	50-140			
Benzo [k] fluoranthene	0.19	0.05	ug/g	ND	57.2	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bis(2-chloroethyl)ether	0.21	0.10	ug/g	ND	62.1	50-140			
Bis(2-chloroisopropyl)ether	0.17	0.10	ug/g	ND	51.5	50-140			
Bis(2-ethylhexyl)phthalate	0.30	0.10	ug/g	ND	90.9	50-140			
Chrysene	0.24	0.05	ug/g	ND	71.0	50-140			
Diethylphthalate	0.25	0.10	ug/g	ND	75.3	50-140			
Dimethylphthalate	0.25	0.10	ug/g	ND	75.4	50-140			
Dibenzo [a,h] anthracene	0.21	0.10	ug/g	ND	62.0	50-140			
Fluoranthene	0.23	0.05	ug/g	ND	68.1	50-140			
Fluorene	0.24	0.05	ug/g	ND	71.9	50-140			
Indeno [1,2,3-cd] pyrene	0.21	0.05	ug/g	ND	64.0	50-140			
Naphthalene	0.23	0.05	ug/g	ND	68.7	50-140			
Phenanthrene	0.23	0.05	ug/g	ND	68.3	50-140			
Pyrene	0.21	0.05	ug/g	ND	63.2	50-140			
2,4,5-Trichlorophenol	0.31	0.10	ug/g	ND	93.3	50-140			
2,4,6-Trichlorophenol	0.31	0.10	ug/g	ND	92.1	50-140			
2,4-Dichlorophenol	0.32	0.10	ug/g	ND	96.3	50-140			
2,4-Dimethylphenol	0.25	0.10	ug/g	ND	75.7	30-130			
2,4-Dinitrophenol	0.27	0.10	ug/g	ND	81.4	50-140			
2-Chlorophenol	0.26	0.10	ug/g	ND	77.1	50-140			
Pentachlorophenol	0.34	0.10	ug/g	ND	103	50-140			
Phenol	0.24	0.10	ug/g	ND	71.6	30-130			
Surrogate: 2-Fluorobiphenyl	*0.514*		%		*77.0*	*50-140*			
Surrogate: Nitrobenzene-d5	*0.562*		%		*84.3*	*50-140*			
Surrogate: Terphenyl-d14	*0.498*		%		*74.7*	*50-140*			
Surrogate: 2,4,6-Tribromophenol	*1.42*		%		*107*	*50-140*			
Surrogate: 2-Fluorophenol	*1.21*		%		*91.1*	*50-140*			
Surrogate: Phenol-d6	*1.06*		%		*79.5*	*50-140*			
Volatiles									
Acetone	8.85	0.50	ug/g	ND	88.5	50-140			
Benzene	3.10	0.02	ug/g	ND	77.6	60-130			
Bromodichloromethane	2.77	0.05	ug/g	ND	69.3	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromoform	2.49	0.05	ug/g	ND	62.1	60-130			
Bromomethane	4.31	0.05	ug/g	ND	108	50-140			
Carbon Tetrachloride	2.73	0.05	ug/g	ND	68.4	60-130			
Chlorobenzene	5.05	0.05	ug/g	ND	126	60-130			
Chloroform	3.13	0.05	ug/g	ND	78.2	60-130			
Dibromochloromethane	3.04	0.05	ug/g	ND	76.1	60-130			
Dichlorodifluoromethane	3.46	0.05	ug/g	ND	86.6	50-140			
1,2-Dichlorobenzene	4.57	0.05	ug/g	ND	114	60-130			
1,3-Dichlorobenzene	4.55	0.05	ug/g	ND	114	60-130			
1,4-Dichlorobenzene	4.67	0.05	ug/g	ND	117	60-130			
1,1-Dichloroethane	3.18	0.05	ug/g	ND	79.6	60-130			
1,2-Dichloroethane	3.11	0.05	ug/g	ND	77.8	60-130			
1,1-Dichloroethylene	3.89	0.05	ug/g	ND	97.1	60-130			
cis-1,2-Dichloroethylene	3.05	0.05	ug/g	ND	76.2	60-130			
trans-1,2-Dichloroethylene	3.56	0.05	ug/g	ND	89.0	60-130			
1,2-Dichloropropane	2.94	0.05	ug/g	ND	73.5	60-130			
cis-1,3-Dichloropropylene	3.10	0.05	ug/g	ND	77.5	60-130			
trans-1,3-Dichloropropylene	2.81	0.05	ug/g	ND	70.1	60-130			
Ethylbenzene	4.58	0.05	ug/g	ND	114	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	3.49	0.05	ug/g	ND	87.3	60-130			
Hexane	3.53	0.05	ug/g	ND	88.3	60-130			
Methyl Ethyl Ketone (2-Butanone)	8.08	0.50	ug/g	ND	80.8	50-140			
Methyl Isobutyl Ketone	7.28	0.50	ug/g	ND	72.8	50-140			
Methyl tert-butyl ether	7.56	0.05	ug/g	ND	75.6	50-140			
Methylene Chloride	4.03	0.05	ug/g	ND	101	60-130			
Styrene	4.82	0.05	ug/g	ND	121	60-130			
1,1,1,2-Tetrachloroethane	3.25	0.05	ug/g	ND	81.3	60-130			
1,1,2,2-Tetrachloroethane	3.40	0.05	ug/g	ND	85.1	60-130			
Tetrachloroethylene	4.67	0.05	ug/g	ND	117	60-130			
Toluene	4.38	0.05	ug/g	ND	110	60-130			
1,1,1-Trichloroethane	2.77	0.05	ug/g	ND	69.3	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,2-Trichloroethane	2.83	0.05	ug/g	ND	70.6	60-130			
Trichloroethylene	2.96	0.05	ug/g	ND	74.0	60-130			
Trichlorofluoromethane	3.72	0.05	ug/g	ND	92.9	50-140			
Vinyl chloride	4.23	0.02	ug/g	ND	106	50-140			
m,p-Xylenes	9.43	0.05	ug/g	ND	118	60-130			
o-Xylene	4.97	0.05	ug/g	ND	124	60-130			
Surrogate: 4-Bromofluorobenzene	*7.00*		*%*		*87.4*	*50-140*			
Surrogate: Dibromofluoromethane	*5.72*		*%*		*71.5*	*50-140*			
Surrogate: Toluene-d8	*8.46*		*%*		*106*	*50-140*			

Qualifier Notes:

Sample Qualifiers :

1: Elevated reporting limit because of dilution required due to the presence of high levels of non-target analytes.

2: Elevated reporting limits due to the nature of the sample matrix.

Applies to Samples: 8/1.5

3: GC-FID signal did not return to baseline by C50

Applies to Samples: 8/1.5

5: The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

Applies to Samples: DUP-1

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

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

Benzo[b]fluoranthene results may be biased high due to co-elution with Benzo[j]fluoranthene

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARACEL LABORATORIES LTD

Paracel ID: 2523059

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2523059	№ 77259

Client Name: SME	Project Ref: 24E099	Page 1 of 2
Contact Name: Tanner Page	Quote #:	**Turnaround Time**
Address: 2000 Legacy Park Dr, Windsor, ON	PO #:	☐ 1 day ☐ 3 day
	E-mail: Thadey@ctsoil.com, TPage@ctsoil.com	☐ 2 day ☒ Regular
Telephone: 519-966-8863		Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☒ Med/Fine
☐ Table 2 ☒ Res/Park ☐ Coarse
☒ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☒ Yes ☐ No

Other Regulation

☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun: ___
☐ Other:

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

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken Date	Sample Taken Time	Metals	pH	PAHs	PHCs	VOCs	SVOCs					
1	12/0.5	S		1		05/29/25	9:30	X		X								
2	12/2.5	↓		2		↓	9:40		X		X	X						
3	10/1.0			2			10:45	X	X		X	X	X					
4	10/1.5.0			2			11:15		X		X	X						
5	8/1.5			2			1:10	X	X	X	X	X						
6	8/3.5			2			1:20				X	X						
7	8/15.0			2		↓	1:45		X		X	X						
8	7/1.0			1		05/30/25	9:00	X					X					
9	7/3.0			2		↓	9:15				X	X						
10	7/15.0	↓		2		↓	9:45		X		X	X						

Comments:

Method of Delivery: Walk in

Relinquished By (Sign): TPage	Received at Depot: K. Jakobsen	Received at Lab: LTJ	Verified By: K. Jakobsen
Relinquished By (Print): Tanner Page	Date/Time: June 2/25 13:20	Date/Time: ~~06/03~~ 06/05/25 10:45	Date/Time: June 2/25 14:30
Date/Time: 06/02/25 1:30	Temperature: 9.4 °C	Temperature: 17.5 °C	pH Verified: ☐ By:

PARACEL LABORATORIES LTD

Paracel ID: 2523059

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2523059	№ 77260

Client Name: SME	Project Ref: 24E099	Page 2 of 2
Contact Name: Tanner Page	Quote #:	Turnaround Time
Address: 2000 Legacy Park Dr, Windsor, ON	PO #:	☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Telephone: 519-966-8863	E-mail: THooley@ctsoil.com, FPage@ctsoil.com	Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☒ Med/Fine
☐ Table 2 ☒ Res/Park ☐ Coarse
☒ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☒ Yes ☐ No

Other Regulation: ☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm ☐ Mun: ___ ☐ Other:

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken Date	Sample Taken Time	Required Analysis: Metals	pH	PAHs	PHCs	VOCs	SVOCs						
1	9/1.0	S		2		05/30/25	10:45	X	X	X	X	X							
2	9/18.0	↓		2			11:30		X		X	X							
3	11/2.0			1			1:15	X	X	X									
4	11/15.0			2			2:00		X		X	X							
5	DUP-1			1			6:00	X					X						
6	DUP-2			1			6:30	X	X	X									
7	DUP-3	↓		2		↓	7:00		X		X	X							
8																			
9																			
10																			

Comments:

Method of Delivery: Walkin

Relinquished By (Sign): FPage	Received at Depot: K. Jakobsen	Received at Lab: LTJ	Verified By: K. Jakobsen
Relinquished By (Print): Tanner Page	Date/Time: June 2/25 13:20	Date/Time: 03/06/25 10:45	Date/Time: June 2/25 14:30
Date/Time: 06/02/25 1:30	Temperature: 9.4 °C	Temperature: 17.5 °C	pH Verified: ☐ By:

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Certificate of Analysis

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, ON N8W 5S6
Attn: Tiffany Hooley

Client PO:
Project: 24E099
Custody: 76695

Report Date: 20-Jun-2025
Order Date: 16-Jun-2025

Order #: 2525032

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

Paracel ID	Client ID
2525032-01	MW7
2525032-02	MW8
2525032-03	MW11
2525032-04	DUP1
2525032-05	Trip Blank 25E0913

Approved By:

Alex Enfield, MSc
Lab Manager

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Chromium, hexavalent - water	MOE E3056 - colourimetric	19-Jun-25	20-Jun-25
PHC F1	CWS Tier 1 - P&T GC-FID	18-Jun-25	19-Jun-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	18-Jun-25	18-Jun-25
REG 153: ABNs + PAHs	based on SW-846 8270	18-Jun-25	19-Jun-25
REG 153: Mercury by CVAA	EPA 245.2 - Cold Vapour AA	17-Jun-25	18-Jun-25
REG 153: Metals by ICP/MS, water	EPA 200.8 - ICP-MS	18-Jun-25	18-Jun-25
REG 153: PAHs by GC-MS	EPA 625 - GC-MS, extraction	19-Jun-25	20-Jun-25
REG 153: pH, water	EPA 150.1 - pH probe @25 °C	17-Jun-25	17-Jun-25
REG 153: VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	19-Jun-25	19-Jun-25

Summary of Criteria Exceedances

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

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

Regulatory Comparison:

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

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Non-Potable Groundwater, fine	-

Certificate of Analysis

Report Date: 20-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 16-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	MW7	MW8	MW11	DUP1	Criteria:	
	Sample Date:	12-Jun-25 13:00	12-Jun-25 14:00	12-Jun-25 15:00	12-Jun-25 06:00	Reg 153/04 -T3	-
	Sample ID:	2525032-01	2525032-02	2525032-03	2525032-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
General Inorganics							
pH	0.1 pH Units	7.2	7.2	7.3	-	5.00 - 9.00 pH Units	-
Metals							
Mercury	0.1 ug/L	<0.1	<0.1	<0.1	<0.1	2.8 ug/L	-
Antimony	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	20000 ug/L	-
Arsenic	1.0 ug/L	<1.0	<1.0	1.1	<1.0	1900 ug/L	-
Barium	1.0 ug/L	29.9	35.2	81.0	34.9	29000 ug/L	-
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	67 ug/L	-
Boron	10.0 ug/L	275	309	477	304	45000 ug/L	-
Cadmium	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	2.7 ug/L	-
Chromium (VI)	10 ug/L	<10	<10	<10	<10	140 ug/L	-
Chromium	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	810 ug/L	-
Cobalt	0.5 ug/L	1.7	2.5	2.5	2.4	66 ug/L	-
Copper	0.5 ug/L	22.5	6.5	3.9	6.1	87 ug/L	-
Lead	0.2 ug/L	0.4	0.2	<0.2	0.3	25 ug/L	-
Molybdenum	0.5 ug/L	10.1	12.0	44.1	11.6	9200 ug/L	-
Nickel	1.0 ug/L	4.8	4.8	8.7	4.6	490 ug/L	-
Selenium	1.0 ug/L	4.5	2.0	6.0	2.0	63 ug/L	-
Silver	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	1.5 ug/L	-
Sodium	200 ug/L	101000	125000	139000	125000	2300000 ug/L	-
Thallium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	510 ug/L	-
Uranium	0.2 ug/L	17.2	29.6	23.6	30.5	420 ug/L	-
Vanadium	0.5 ug/L	1.1	1.5	1.4	1.5	250 ug/L	-
Zinc	5.0 ug/L	38.6	7.9	<5.0	9.4	1100 ug/L	-
Volatiles							
Acetone	5.0 ug/L	<5.0	<5.0	<5.0	-	130000 ug/L	-

	Client ID:	MW7	MW8	MW11	DUP1	Criteria:	
	Sample Date:	12-Jun-25 13:00	12-Jun-25 14:00	12-Jun-25 15:00	12-Jun-25 06:00	Reg 153/04 -T3	-
	Sample ID:	2525032-01	2525032-02	2525032-03	2525032-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
Volatiles							
Benzene	0.5 ug/L	<0.5	<0.5	<0.5	-	430 ug/L	-
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	<0.5	-	85000 ug/L	-
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	-	770 ug/L	-
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5	-	56 ug/L	-
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2	-	8.4 ug/L	-
Chlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	630 ug/L	-
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	-	22 ug/L	-
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	-	82000 ug/L	-
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	-	4400 ug/L	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	9600 ug/L	-
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	9600 ug/L	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	67 ug/L	-
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	3100 ug/L	-
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	12 ug/L	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	17 ug/L	-
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	17 ug/L	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	17 ug/L	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	-	140 ug/L	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<0.5	-	45 ug/L	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	2300 ug/L	-
Ethylene dibromide (dibromoethane,	0.2 ug/L	<0.2	<0.2	<0.2	-	0.83 ug/L	-
Hexane	1.0 ug/L	<1.0	<1.0	<1.0	-	520 ug/L	-
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	<5.0	-	1500000 ug/L	-

Certificate of Analysis

Report Date: 20-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 16-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	MW7	MW8	MW11	DUP1	Criteria:	
	Sample Date:	12-Jun-25 13:00	12-Jun-25 14:00	12-Jun-25 15:00	12-Jun-25 06:00	Reg 153/04 -T3	-
	Sample ID:	2525032-01	2525032-02	2525032-03	2525032-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
Volatiles							
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	<5.0	-	580000 ug/L	-
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	<2.0	-	1400 ug/L	-
Methylene Chloride	5.0 ug/L	<5.0	<5.0	<5.0	-	5500 ug/L	-
Styrene	0.5 ug/L	<0.5	<0.5	<0.5	-	9100 ug/L	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	28 ug/L	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	15 ug/L	-
Tetrachloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	17 ug/L	-
Toluene	0.5 ug/L	<0.5	<0.5	<0.5	-	18000 ug/L	-
1,1,1-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	6700 ug/L	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	30 ug/L	-
Trichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	17 ug/L	-
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	-	2500 ug/L	-
Vinyl chloride	0.5 ug/L	<0.5	<0.5	<0.5	-	1.7 ug/L	-
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
o-Xylene	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
Xylenes, total	0.5 ug/L	<0.5	<0.5	<0.5	-	4200 ug/L	-
Toluene-d8	Surrogate	99.2%	101%	99.7%	-	-	-
4-Bromofluorobenzene	Surrogate	100%	104%	100%	-	-	-
Dibromofluoromethane	Surrogate	71.3%	64.6%	70.5%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	25 ug/L	<25	<25	<25	-	750 ug/L	-
F2 PHCs (C10-C16)	100 ug/L	<100	<100	<100	-	150 ug/L	-
F3 PHCs (C16-C34)	100 ug/L	<100	<100	<100	-	500 ug/L	-
F4 PHCs (C34-C50)	100 ug/L	<100	<100	<100	-	500 ug/L	-
Semi-Volatiles							

	Client ID:	MW7	MW8	MW11	DUP1	Criteria:	
	Sample Date:	12-Jun-25 13:00	12-Jun-25 14:00	12-Jun-25 15:00	12-Jun-25 06:00	Reg 153/04 -T3	-
	Sample ID:	2525032-01	2525032-02	2525032-03	2525032-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.05 ug/L	-	<0.05	<0.05	<0.05	1700 ug/L	-
Acenaphthylene	0.05 ug/L	-	<0.05	<0.05	<0.05	1.8 ug/L	-
Anthracene	0.01 ug/L	-	0.04	0.05	0.03	2.4 ug/L	-
Benzo [a] anthracene	0.01 ug/L	-	0.18	0.10	0.12	4.7 ug/L	-
Benzo [a] pyrene	0.01 ug/L	-	0.18	0.08	0.05	0.81 ug/L	-
Benzo [b] fluoranthene	0.05 ug/L	-	0.15	0.07	0.07	0.75 ug/L	-
Benzo [g,h,i] perylene	0.05 ug/L	-	0.08	<0.05	<0.05	0.2 ug/L	-
Benzo [k] fluoranthene	0.05 ug/L	-	0.06	0.10	0.12	0.4 ug/L	-
Chrysene	0.05 ug/L	-	0.16	0.11	0.15	1 ug/L	-
Dibenzo [a,h] anthracene	0.05 ug/L	-	<0.05	<0.05	<0.05	0.52 ug/L	-
Fluoranthene	0.01 ug/L	-	0.30	0.07	0.06	130 ug/L	-
Fluorene	0.05 ug/L	-	<0.05	<0.05	<0.05	400 ug/L	-
Indeno [1,2,3-cd] pyrene	0.05 ug/L	-	0.10	<0.05	<0.05	0.2 ug/L	-
1-Methylnaphthalene	0.05 ug/L	-	<0.05	<0.05	<0.05	1800 ug/L	-
2-Methylnaphthalene	0.05 ug/L	-	<0.05	<0.05	<0.05	1800 ug/L	-
Methylnaphthalene (1&2)	0.10 ug/L	-	<0.10	<0.10	<0.10	1800 ug/L	-
Naphthalene	0.05 ug/L	-	<0.05	<0.05	<0.05	6400 ug/L	-
Phenanthrene	0.05 ug/L	-	0.09	<0.05	<0.05	580 ug/L	-
Pyrene	0.01 ug/L	-	0.21	0.07	0.06	68 ug/L	-
2-Fluorobiphenyl	Surrogate	-	76.2%	87.3%	91.6%	-	-
Terphenyl-d14	Surrogate	-	69.2%	82.5%	65.9%	-	-
1-Methylnaphthalene	1 ug/L	<1	-	-	-	1800 ug/L	-
1,2,4-Trichlorobenzene	0.5 ug/L	<0.5	-	-	-	850 ug/L	-
2,4-Dinitrotoluene	2 ug/L	<2	-	-	-	-	-
2,6-Dinitrotoluene	2 ug/L	<2	-	-	-	-	-

	Client ID:	MW7	MW8	MW11	DUP1	Criteria:	
	Sample Date:	12-Jun-25 13:00	12-Jun-25 14:00	12-Jun-25 15:00	12-Jun-25 06:00	Reg 153/04 -T3	-
	Sample ID:	2525032-01	2525032-02	2525032-03	2525032-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
Semi-Volatiles							
Dinitrotoluene (2,4 & 2,6)	3 ug/L	<3	-	-	-	2900 ug/L	-
2-Methylnaphthalene	1 ug/L	<1	-	-	-	1800 ug/L	-
Methylnaphthalene (1&2)	1 ug/L	<1	-	-	-	1800 ug/L	-
3,3'-Dichlorobenzidine	0.5 ug/L	<0.5	-	-	-	640 ug/L	-
4-Chloroaniline	10 ug/L	<10	-	-	-	400 ug/L	-
Acenaphthene	1 ug/L	<1	-	-	-	1700 ug/L	-
Anthracene	0.1 ug/L	<0.1	-	-	-	2.4 ug/L	-
Acenaphthylene	1 ug/L	<1	-	-	-	1.8 ug/L	-
Benzo [a] anthracene	0.2 ug/L	<0.2	-	-	-	4.7 ug/L	-
Benzo [a] pyrene	0.01 ug/L	<0.01	-	-	-	0.81 ug/L	-
Benzo [g,h,i] perylene	0.2 ug/L	<0.2	-	-	-	0.2 ug/L	-
Benzo [b] fluoranthene	0.1 ug/L	<0.1	-	-	-	0.75 ug/L	-
Benzo [k] fluoranthene	0.1 ug/L	<0.1	-	-	-	0.4 ug/L	-
Biphenyl	0.5 ug/L	<0.5	-	-	-	2200 ug/L	-
Bis(2-chloroethyl)ether	5 ug/L	<5	-	-	-	300000 ug/L	-
Bis(2-chloroisopropyl)ether	4 ug/L	<4	-	-	-	20000 ug/L	-
Bis(2-ethylhexyl)phthalate	10 ug/L	<10	-	-	-	140 ug/L	-
Chrysene	0.1 ug/L	<0.1	-	-	-	1 ug/L	-
Dibenzo [a,h] anthracene	0.2 ug/L	<0.2	-	-	-	0.52 ug/L	-
Diethylphthalate	2 ug/L	<2	-	-	-	38 ug/L	-
Dimethylphthalate	2 ug/L	<2	-	-	-	38 ug/L	-
Fluoranthene	0.4 ug/L	<0.4	-	-	-	130 ug/L	-
Fluorene	0.5 ug/L	<0.5	-	-	-	400 ug/L	-
Indeno [1,2,3-cd] pyrene	0.2 ug/L	<0.2	-	-	-	0.2 ug/L	-
Naphthalene	2 ug/L	<2	-	-	-	6400 ug/L	-

	Client ID:	MW7	MW8	MW11	DUP1	**Criteria:**	
	Sample Date:	12-Jun-25 13:00	12-Jun-25 14:00	12-Jun-25 15:00	12-Jun-25 06:00	**Reg 153/04 -T3 Non-Potable Groundwater, fine**	-
	Sample ID:	2525032-01	2525032-02	2525032-03	2525032-04		
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
	MDL/Units						
Semi-Volatiles							
Phenanthrene	0.1 ug/L	<0.1	-	-	-	580 ug/L	-
Pyrene	0.2 ug/L	<0.2	-	-	-	68 ug/L	-
2,4,5-Trichlorophenol	0.2 ug/L	<0.2	-	-	-	1600 ug/L	-
2,4,6-Trichlorophenol	0.2 ug/L	<0.2	-	-	-	230 ug/L	-
2,4-Dichlorophenol	20 ug/L	<20	-	-	-	4600 ug/L	-
2,4-Dimethylphenol	10 ug/L	<10	-	-	-	39000 ug/L	-
2,4-Dinitrophenol	10 ug/L	<10	-	-	-	11000 ug/L	-
2-Chlorophenol	2 ug/L	<2	-	-	-	3300 ug/L	-
Pentachlorophenol	0.5 ug/L	<0.5	-	-	-	62 ug/L	-
Phenol	1 ug/L	<1	-	-	-	12000 ug/L	-
2-Fluorobiphenyl	Surrogate	84%	-	-	-	-	-
Nitrobenzene-d5	Surrogate	84%	-	-	-	-	-
Terphenyl-d14	Surrogate	72%	-	-	-	-	-
2,4,6-Tribromophenol	Surrogate	76%	-	-	-	-	-
2-Fluorophenol	Surrogate	42%	-	-	-	-	-
Phenol-d6	Surrogate	36% [3]	-	-	-	-	-

	Client ID:	Trip Blank 25E0913				**Criteria:**	
	Sample Date:	11-Jun-25 11:30				**Reg 153/04 -T3**	-
	Sample ID:	2525032-05				**Non-Potable**	
	Matrix:	Water				**Groundwater, fine**	
	MDL/Units						
Volatiles							
Acetone	5.0 ug/L	<5.0	-	-	-	130000 ug/L	-
Benzene	0.5 ug/L	<0.5	-	-	-	430 ug/L	-
Bromodichloromethane	0.5 ug/L	<0.5	-	-	-	85000 ug/L	-
Bromoform	0.5 ug/L	<0.5	-	-	-	770 ug/L	-
Bromomethane	0.5 ug/L	<0.5	-	-	-	56 ug/L	-
Carbon Tetrachloride	0.2 ug/L	<0.2	-	-	-	8.4 ug/L	-
Chlorobenzene	0.5 ug/L	<0.5	-	-	-	630 ug/L	-
Chloroform	0.5 ug/L	<0.5	-	-	-	22 ug/L	-
Dibromochloromethane	0.5 ug/L	<0.5	-	-	-	82000 ug/L	-
Dichlorodifluoromethane	1.0 ug/L	<1.0	-	-	-	4400 ug/L	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	9600 ug/L	-
1,3-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	9600 ug/L	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	67 ug/L	-
1,1-Dichloroethane	0.5 ug/L	<0.5	-	-	-	3100 ug/L	-
1,2-Dichloroethane	0.5 ug/L	<0.5	-	-	-	12 ug/L	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	17 ug/L	-
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	17 ug/L	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	17 ug/L	-
1,2-Dichloropropane	0.5 ug/L	<0.5	-	-	-	140 ug/L	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	-	-	-	45 ug/L	-
Ethylbenzene	0.5 ug/L	<0.5	-	-	-	2300 ug/L	-
Ethylene dibromide (dibromoethane,	0.2 ug/L	<0.2	-	-	-	0.83 ug/L	-
Hexane	1.0 ug/L	<1.0	-	-	-	520 ug/L	-

	Client ID:	Trip Blank 25E0913				Criteria:	
	Sample Date:	11-Jun-25 11:30				Reg 153/04 -T3	-
	Sample ID:	2525032-05				Non-Potable	
	Matrix:	Water				Groundwater, fine	
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	-	-	-	1500000 ug/L	-
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	-	-	-	580000 ug/L	-
Methyl tert-butyl ether	2.0 ug/L	<2.0	-	-	-	1400 ug/L	-
Methylene Chloride	5.0 ug/L	<5.0	-	-	-	5500 ug/L	-
Styrene	0.5 ug/L	<0.5	-	-	-	9100 ug/L	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-	28 ug/L	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-	15 ug/L	-
Tetrachloroethylene	0.5 ug/L	<0.5	-	-	-	17 ug/L	-
Toluene	0.5 ug/L	<0.5	-	-	-	18000 ug/L	-
1,1,1-Trichloroethane	0.5 ug/L	<0.5	-	-	-	6700 ug/L	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	-	-	-	30 ug/L	-
Trichloroethylene	0.5 ug/L	<0.5	-	-	-	17 ug/L	-
Trichlorofluoromethane	1.0 ug/L	<1.0	-	-	-	2500 ug/L	-
Vinyl chloride	0.5 ug/L	<0.5	-	-	-	1.7 ug/L	-
m,p-Xylenes	0.5 ug/L	<0.5	-	-	-	-	-
o-Xylene	0.5 ug/L	<0.5	-	-	-	-	-
Xylenes, total	0.5 ug/L	<0.5	-	-	-	4200 ug/L	-
Dibromofluoromethane	Surrogate	73.9%	-	-	-	-	-
4-Bromofluorobenzene	Surrogate	98.7%	-	-	-	-	-
Toluene-d8	Surrogate	99.5%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	25 ug/L	<25	-	-	-	750 ug/L	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	25	ug/L					
F2 PHCs (C10-C16)	ND	100	ug/L					
F3 PHCs (C16-C34)	ND	100	ug/L					
F4 PHCs (C34-C50)	ND	100	ug/L					
Metals								
Mercury	ND	0.1	ug/L					
Antimony	ND	0.5	ug/L					
Arsenic	ND	1.0	ug/L					
Barium	ND	1.0	ug/L					
Beryllium	ND	0.5	ug/L					
Boron	ND	10.0	ug/L					
Cadmium	ND	0.2	ug/L					
Chromium (VI)	ND	10	ug/L					
Chromium	ND	1.0	ug/L					
Cobalt	ND	0.5	ug/L					
Copper	ND	0.5	ug/L					
Lead	ND	0.2	ug/L					
Molybdenum	ND	0.5	ug/L					
Nickel	ND	1.0	ug/L					
Selenium	ND	1.0	ug/L					
Silver	ND	0.2	ug/L					
Sodium	ND	200	ug/L					
Thallium	ND	0.5	ug/L					
Uranium	ND	0.2	ug/L					
Vanadium	ND	0.5	ug/L					
Zinc	ND	5.0	ug/L					
Semi-Volatiles								
Acenaphthene	ND	0.05	ug/L					
Acenaphthylene	ND	0.05	ug/L					
Anthracene	ND	0.01	ug/L					
Benzo [a] anthracene	ND	0.01	ug/L					
Benzo [a] pyrene	ND	0.01	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [b] fluoranthene	ND	0.05	ug/L					
Benzo [g,h,i] perylene	ND	0.05	ug/L					
Benzo [k] fluoranthene	ND	0.05	ug/L					
Chrysene	ND	0.05	ug/L					
Dibenzo [a,h] anthracene	ND	0.05	ug/L					
Fluoranthene	ND	0.01	ug/L					
Fluorene	ND	0.05	ug/L					
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L					
1-Methylnaphthalene	ND	0.05	ug/L					
2-Methylnaphthalene	ND	0.05	ug/L					
Methylnaphthalene (1&2)	ND	0.10	ug/L					
Naphthalene	ND	0.05	ug/L					
Phenanthrene	ND	0.05	ug/L					
Pyrene	ND	0.01	ug/L					
Surrogate: 2-Fluorobiphenyl	*10.7*		*%*	*106*	*50-140*			
Surrogate: Terphenyl-d14	*11.0*		*%*	*109*	*50-140*			
1-Methylnaphthalene	ND	1	ug/L					
1,2,4-Trichlorobenzene	ND	0.5	ug/L					
2,4-Dinitrotoluene	ND	2	ug/L					
2,6-Dinitrotoluene	ND	2	ug/L					
Dinitrotoluene (2,4 & 2,6)	ND	3	ug/L					
2-Methylnaphthalene	ND	1	ug/L					
Methylnaphthalene (1&2)	ND	1	ug/L					
3,3´-Dichlorobenzidine	ND	0.5	ug/L					
4-Chloroaniline	ND	10	ug/L					
Acenaphthene	ND	1	ug/L					
Anthracene	ND	0.1	ug/L					
Acenaphthylene	ND	1	ug/L					
Benzo [a] anthracene	ND	0.2	ug/L					
Benzo [a] pyrene	ND	0.01	ug/L					
Benzo [g,h,i] perylene	ND	0.2	ug/L					
Benzo [b] fluoranthene	ND	0.1	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [k] fluoranthene	ND	0.1	ug/L					
Biphenyl	ND	0.5	ug/L					
Bis(2-chloroethyl)ether	ND	5	ug/L					
Bis(2-chloroisopropyl)ether	ND	4	ug/L					
Bis(2-ethylhexyl)phthalate	ND	10	ug/L					
Chrysene	ND	0.1	ug/L					
Dibenzo [a,h] anthracene	ND	0.2	ug/L					
Diethylphthalate	ND	2	ug/L					
Dimethylphthalate	ND	2	ug/L					
Fluoranthene	ND	0.4	ug/L					
Fluorene	ND	0.5	ug/L					
Indeno [1,2,3-cd] pyrene	ND	0.2	ug/L					
Naphthalene	ND	2	ug/L					
Phenanthrene	ND	0.1	ug/L					
Pyrene	ND	0.2	ug/L					
2,4,5-Trichlorophenol	ND	0.2	ug/L					
2,4,6-Trichlorophenol	ND	0.2	ug/L					
2,4-Dichlorophenol	ND	20	ug/L					
2,4-Dimethylphenol	ND	10	ug/L					
2,4-Dinitrophenol	ND	10	ug/L					
2-Chlorophenol	ND	2	ug/L					
Pentachlorophenol	ND	0.5	ug/L					
Phenol	ND	1	ug/L					
Surrogate: 2-Fluorobiphenyl	*7.22*		*%*	*71.5*	*50-140*			
Surrogate: Nitrobenzene-d5	*8.80*		*%*	*88.0*	*40-140*			
Surrogate: Terphenyl-d14	*8.10*		*%*	*80.2*	*50-140*			
Surrogate: 2,4,6-Tribromophenol	*7.43*		*%*	*73.5*	*40-140*			
Surrogate: 2-Fluorophenol	*3.99*		*%*	*39.5*	*40-140*			S-GC
Surrogate: Phenol-d6	*2.58*		*%*	*25.5*	*40-140*			S-GC
Volatiles								
Acetone	ND	5.0	ug/L					
Benzene	ND	0.5	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromodichloromethane	ND	0.5	ug/L					
Bromoform	ND	0.5	ug/L					
Bromomethane	ND	0.5	ug/L					
Carbon Tetrachloride	ND	0.2	ug/L					
Chlorobenzene	ND	0.5	ug/L					
Chloroform	ND	0.5	ug/L					
Dibromochloromethane	ND	0.5	ug/L					
Dichlorodifluoromethane	ND	1.0	ug/L					
1,2-Dichlorobenzene	ND	0.5	ug/L					
1,3-Dichlorobenzene	ND	0.5	ug/L					
1,4-Dichlorobenzene	ND	0.5	ug/L					
1,1-Dichloroethane	ND	0.5	ug/L					
1,2-Dichloroethane	ND	0.5	ug/L					
1,1-Dichloroethylene	ND	0.5	ug/L					
cis-1,2-Dichloroethylene	ND	0.5	ug/L					
trans-1,2-Dichloroethylene	ND	0.5	ug/L					
1,2-Dichloropropane	ND	0.5	ug/L					
cis-1,3-Dichloropropylene	ND	0.5	ug/L					
trans-1,3-Dichloropropylene	ND	0.5	ug/L					
1,3-Dichloropropene, total	ND	0.5	ug/L					
Ethylbenzene	ND	0.5	ug/L					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L					
Hexane	ND	1.0	ug/L					
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L					
Methyl Isobutyl Ketone	ND	5.0	ug/L					
Methyl tert-butyl ether	ND	2.0	ug/L					
Methylene Chloride	ND	5.0	ug/L					
Styrene	ND	0.5	ug/L					
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L					
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L					
Tetrachloroethylene	ND	0.5	ug/L					
Toluene	ND	0.5	ug/L					
1,1,1-Trichloroethane	ND	0.5	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,2-Trichloroethane	ND	0.5	ug/L					
Trichloroethylene	ND	0.5	ug/L					
Trichlorofluoromethane	ND	1.0	ug/L					
Vinyl chloride	ND	0.5	ug/L					
m,p-Xylenes	ND	0.5	ug/L					
o-Xylene	ND	0.5	ug/L					
Xylenes, total	ND	0.5	ug/L					
Surrogate: 4-Bromofluorobenzene	*76.3*		*%*	*95.0*	*50-140*			
Surrogate: Dibromofluoromethane	*64.0*		*%*	*79.7*	*50-140*			
Surrogate: Toluene-d8	*79.4*		*%*	*98.9*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
pH	7.2	0.1	pH Units	7.2			0.4	10	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Metals									
Mercury	ND	0.1	ug/L	ND			NC	20	
Antimony	ND	0.5	ug/L	ND			NC	20	
Arsenic	ND	1.0	ug/L	ND			NC	20	
Barium	29.3	1.0	ug/L	29.9			2.2	20	
Beryllium	ND	0.5	ug/L	ND			NC	20	
Boron	274	10.0	ug/L	275			0.2	20	
Cadmium	ND	0.2	ug/L	ND			NC	20	
Chromium (VI)	ND	10	ug/L	ND			NC	20	
Chromium	ND	1.0	ug/L	ND			NC	20	
Cobalt	1.7	0.5	ug/L	1.7			0.4	20	
Copper	22.8	0.5	ug/L	22.5			1.5	20	
Lead	0.4	0.2	ug/L	0.4			1.5	20	
Molybdenum	10.2	0.5	ug/L	10.1			1.1	20	
Nickel	4.9	1.0	ug/L	4.8			2.4	20	
Selenium	4.4	1.0	ug/L	4.5			2.0	20	
Silver	ND	0.2	ug/L	ND			NC	20	
Sodium	104000	200	ug/L	101000			2.8	20	
Thallium	ND	0.5	ug/L	ND			NC	20	
Uranium	16.6	0.2	ug/L	17.2			3.8	20	
Vanadium	1.1	0.5	ug/L	1.1			4.5	20	
Zinc	38.9	5.0	ug/L	38.6			0.7	20	
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND			NC	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromomethane	ND	0.5	ug/L	ND			NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	ND	0.5	ug/L	ND			NC	30	
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	*79.4*		*%*		*98.9*	*50-140*			
Surrogate: Dibromofluoromethane	*62.5*		*%*		*77.9*	*50-140*			
Surrogate: Toluene-d8	*80.0*		*%*		*99.7*	*50-140*			

Method Quality Control: LCS Dup

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F2 PHCs (C10-C16)	ND	100	ug/L	ND		60-140		200	
F3 PHCs (C16-C34)	ND	100	ug/L	ND		60-140		200	
F4 PHCs (C34-C50)	ND	100	ug/L	ND		60-140		200	
Semi-Volatiles									
Acenaphthene	10.1	0.05	ug/L	ND	101	50-140	3.11	200	
Acenaphthylene	10.7	0.05	ug/L	ND	107	50-140	3.33	200	
Anthracene	13.7	0.01	ug/L	ND	137	50-140	10.4	200	
Benzo [a] anthracene	10.6	0.01	ug/L	ND	106	50-140	8.04	200	
Benzo [a] pyrene	11.3	0.01	ug/L	ND	113	50-140	6.28	200	
Benzo [b] fluoranthene	10.6	0.05	ug/L	ND	106	50-140	3.16	200	
Benzo [g,h,i] perylene	8.15	0.05	ug/L	ND	81.5	50-140	4.88	200	
Benzo [k] fluoranthene	8.76	0.05	ug/L	ND	87.6	50-140	10.7	200	
Chrysene	8.63	0.05	ug/L	ND	86.3	50-140	3.23	200	
Dibenzo [a,h] anthracene	6.98	0.05	ug/L	ND	69.8	50-140	1.38	200	
Fluoranthene	11.7	0.01	ug/L	ND	117	50-140	9.13	200	
Fluorene	9.44	0.05	ug/L	ND	94.4	50-140	1.02	200	
Indeno [1,2,3-cd] pyrene	10.5	0.05	ug/L	ND	105	50-140	5.62	200	
1-Methylnaphthalene	10.1	0.05	ug/L	ND	101	50-140	8.69	200	
2-Methylnaphthalene	9.12	0.05	ug/L	ND	91.2	50-140	7.04	200	
Naphthalene	10.6	0.05	ug/L	ND	106	50-140	7.59	200	
Phenanthrene	11.7	0.05	ug/L	ND	117	50-140	4.64	200	
Pyrene	9.90	0.01	ug/L	ND	99.0	50-140	8.27	200	
1-Methylnaphthalene	5.2	1	ug/L	ND	52.2	50-140	4.79	200	
1,2,4-Trichlorobenzene	4.1	0.5	ug/L	ND	41.1	50-140	15.2	200	
2,4-Dinitrotoluene	7.8	2	ug/L	ND	78.1	50-140	1.17	200	
2,6-Dinitrotoluene	8.4	2	ug/L	ND	84.0	50-140	0.429	200	
2-Methylnaphthalene	5.2	1	ug/L	ND	52.0	50-140	6.11	200	
3,3´-Dichlorobenzidine	6.3	0.5	ug/L	ND	61.6	30-130	1.08	200	
Acenaphthene	6.2	1	ug/L	ND	61.6	50-140	0.776	200	
Anthracene	5.6	0.1	ug/L	ND	55.6	50-140	17.5	200	

Method Quality Control: LCS Dup

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Acenaphthylene	6.6	1	ug/L	ND	66.0	50-140	0.363	200	
Benzo [a] anthracene	3.9	0.2	ug/L	ND	38.8	50-140	48.3	200	
Benzo [a] pyrene	4.2	0.01	ug/L	ND	42.0	50-140	41.1	200	
Benzo [g,h,i] perylene	4.0	0.2	ug/L	ND	39.9	50-140	46.6	200	
Benzo [b] fluoranthene	4.8	0.1	ug/L	ND	47.5	50-140	38.5	200	
Benzo [k] fluoranthene	4.2	0.1	ug/L	ND	42.4	50-140	51.9	200	
Bis(2-chloroethyl)ether	7.1	5	ug/L	ND	71.3	50-140	2.08	200	
Bis(2-chloroisopropyl)ether	7.9	4	ug/L	ND	79.3	50-140	7.21	200	
Chrysene	3.8	0.1	ug/L	ND	38.1	50-140	61.7	200	
Dibenzo [a,h] anthracene	2.9	0.2	ug/L	ND	29.2	50-140	63.9	200	
Diethylphthalate	7.7	2	ug/L	ND	77.4	50-140	0.490	200	
Dimethylphthalate	7.2	2	ug/L	ND	72.3	50-140	7.99	200	
Fluoranthene	6.0	0.4	ug/L	ND	60.3	50-140	20.6	200	
Fluorene	6.5	0.5	ug/L	ND	64.8	50-140	3.82	200	
Indeno [1,2,3-cd] pyrene	3.8	0.2	ug/L	ND	37.6	50-140	55.3	200	
Naphthalene	6.1	2	ug/L	ND	61.2	50-140	7.11	200	
Phenanthrene	7.0	0.1	ug/L	ND	70.4	50-140	6.51	200	
Pyrene	6.1	0.2	ug/L	ND	61.1	50-140	17.9	200	
2,4,5-Trichlorophenol	7.4	0.2	ug/L	ND	73.7	50-140	4.89	200	
2,4,6-Trichlorophenol	7.4	0.2	ug/L	ND	73.6	50-140	1.67	200	
2,4-Dinitrophenol	106	10	ug/L	ND	66.0	30-130	4.02	200	
2-Chlorophenol	6.0	2	ug/L	ND	59.6	50-140	3.85	200	
Pentachlorophenol	7.7	0.5	ug/L	ND	76.9	50-140	0.757	200	
Phenol	3.0	1	ug/L	ND	30.2	30-130	9.90	200	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	663	25	ug/L	ND	93.8	68-117			
F2 PHCs (C10-C16)	1880	100	ug/L	ND	93.1	60-140			
F3 PHCs (C16-C34)	4970	100	ug/L	ND	115	60-140			
F4 PHCs (C34-C50)	3820	100	ug/L	ND	127	60-140			
Metals									
Mercury	3.00	0.1	ug/L	ND	100	70-130			
Antimony	45.8	0.5	ug/L	ND	91.6	70-130			
Arsenic	51.5	1.0	ug/L	ND	102	70-130			
Barium	74.8	1.0	ug/L	29.9	89.8	70-130			
Beryllium	44.1	0.5	ug/L	ND	88.2	70-130			
Boron	305	10.0	ug/L	275	59.3	70-130			QM-07
Cadmium	42.7	0.2	ug/L	ND	85.2	70-130			
Chromium (VI)	185	10	ug/L	ND	92.5	70-130			
Chromium	50.4	1.0	ug/L	ND	101	70-130			
Cobalt	49.0	0.5	ug/L	1.7	94.7	70-130			
Copper	66.6	0.5	ug/L	22.5	88.2	70-130			
Lead	45.3	0.2	ug/L	0.4	89.8	70-130			
Molybdenum	57.4	0.5	ug/L	10.1	94.8	70-130			
Nickel	49.3	1.0	ug/L	4.8	89.0	70-130			
Selenium	56.8	1.0	ug/L	4.5	105	70-130			
Silver	36.5	0.2	ug/L	ND	72.9	70-130			
Sodium	106000	200	ug/L	101000	46.6	70-130			QM-07
Thallium	41.2	0.5	ug/L	ND	82.2	70-130			
Uranium	60.4	0.2	ug/L	17.2	86.4	70-130			
Vanadium	56.5	0.5	ug/L	1.1	111	70-130			
Zinc	79.7	5.0	ug/L	38.6	82.2	70-130			
Semi-Volatiles									
Acenaphthene	9.80	0.05	ug/L	ND	98.0	50-140			
Acenaphthylene	10.3	0.05	ug/L	ND	103	50-140			
Anthracene	12.4	0.01	ug/L	ND	124	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [a] anthracene	9.81	0.01	ug/L	ND	98.1	50-140			
Benzo [a] pyrene	10.6	0.01	ug/L	ND	106	50-140			
Benzo [b] fluoranthene	10.3	0.05	ug/L	ND	103	50-140			
Benzo [g,h,i] perylene	7.76	0.05	ug/L	ND	77.6	50-140			
Benzo [k] fluoranthene	9.75	0.05	ug/L	ND	97.5	50-140			
Chrysene	8.35	0.05	ug/L	ND	83.5	50-140			
Dibenzo [a,h] anthracene	6.89	0.05	ug/L	ND	68.9	50-140			
Fluoranthene	10.6	0.01	ug/L	ND	106	50-140			
Fluorene	9.35	0.05	ug/L	ND	93.5	50-140			
Indeno [1,2,3-cd] pyrene	9.96	0.05	ug/L	ND	99.6	50-140			
1-Methylnaphthalene	9.29	0.05	ug/L	ND	92.9	50-140			
2-Methylnaphthalene	8.50	0.05	ug/L	ND	85.0	50-140			
Naphthalene	9.78	0.05	ug/L	ND	97.8	50-140			
Phenanthrene	11.2	0.05	ug/L	ND	112	50-140			
Pyrene	9.12	0.01	ug/L	ND	91.2	50-140			
Surrogate: 2-Fluorobiphenyl	*10.4*		*%*		*103*	*50-140*			
Surrogate: Terphenyl-d14	*9.62*		*%*		*95.2*	*50-140*			
1-Methylnaphthalene	5.5	1	ug/L	ND	54.8	50-140			
1,2,4-Trichlorobenzene	4.8	0.5	ug/L	ND	47.9	50-140			QS-02
2,4-Dinitrotoluene	7.9	2	ug/L	ND	79.0	50-140			
2,6-Dinitrotoluene	8.4	2	ug/L	ND	83.7	50-140			
2-Methylnaphthalene	5.5	1	ug/L	ND	55.3	50-140			
3,3´-Dichlorobenzidine	6.4	0.5	ug/L	ND	62.3	30-130			
Acenaphthene	6.2	1	ug/L	ND	62.1	50-140			
Anthracene	6.6	0.1	ug/L	ND	66.3	50-140			
Acenaphthylene	6.6	1	ug/L	ND	66.2	50-140			
Benzo [a] anthracene	6.3	0.2	ug/L	ND	63.5	50-140			
Benzo [a] pyrene	6.4	0.01	ug/L	ND	63.8	50-140			
Benzo [g,h,i] perylene	6.4	0.2	ug/L	ND	64.1	50-140			
Benzo [b] fluoranthene	7.0	0.1	ug/L	ND	70.2	50-140			
Benzo [k] fluoranthene	7.2	0.1	ug/L	ND	72.0	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bis(2-chloroethyl)ether	7.3	5	ug/L	ND	72.8	50-140			
Bis(2-chloroisopropyl)ether	7.4	4	ug/L	ND	73.8	50-140			
Chrysene	7.2	0.1	ug/L	ND	72.0	50-140			
Dibenzo [a,h] anthracene	5.7	0.2	ug/L	ND	56.5	50-140			
Diethylphthalate	7.8	2	ug/L	ND	77.8	50-140			
Dimethylphthalate	7.8	2	ug/L	ND	78.4	50-140			
Fluoranthene	7.4	0.4	ug/L	ND	74.1	50-140			
Fluorene	6.7	0.5	ug/L	ND	67.3	50-140			
Indeno [1,2,3-cd] pyrene	6.6	0.2	ug/L	ND	66.4	50-140			
Naphthalene	5.7	2	ug/L	ND	57.0	50-140			
Phenanthrene	7.5	0.1	ug/L	ND	75.1	50-140			
Pyrene	7.3	0.2	ug/L	ND	73.1	50-140			
2,4,5-Trichlorophenol	7.7	0.2	ug/L	ND	77.4	50-140			
2,4,6-Trichlorophenol	7.5	0.2	ug/L	ND	74.9	50-140			
2,4-Dinitrophenol	101	10	ug/L	ND	63.4	30-130			
2-Chlorophenol	6.2	2	ug/L	ND	62.0	50-140			
Pentachlorophenol	7.6	0.5	ug/L	ND	76.3	50-140			
Phenol	3.3	1	ug/L	ND	33.3	30-130			
Surrogate: 2-Fluorobiphenyl	*6.67*		*%*		*66.0*	*50-140*			
Surrogate: Nitrobenzene-d5	*8.91*		*%*		*89.1*	*40-140*			
Surrogate: Terphenyl-d14	*6.02*		*%*		*59.6*	*50-140*			
Surrogate: 2,4,6-Tribromophenol	*8.01*		*%*		*79.3*	*40-140*			
Surrogate: 2-Fluorophenol	*4.05*		*%*		*40.1*	*40-140*			
Surrogate: Phenol-d6	*3.33*		*%*		*33.0*	*40-140*			*S-GC*
Volatiles									
Acetone	93.1	5.0	ug/L	ND	93.1	50-140			
Benzene	39.7	0.5	ug/L	ND	98.8	60-130			
Bromodichloromethane	36.4	0.5	ug/L	ND	90.5	60-130			
Bromoform	33.8	0.5	ug/L	ND	84.6	60-130			
Bromomethane	51.8	0.5	ug/L	ND	128	50-140			
Carbon Tetrachloride	38.0	0.2	ug/L	ND	94.6	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chlorobenzene	38.1	0.5	ug/L	ND	94.7	60-130			
Chloroform	45.0	0.5	ug/L	ND	112	60-130			
Dibromochloromethane	35.6	0.5	ug/L	ND	88.5	60-130			
Dichlorodifluoromethane	52.2	1.0	ug/L	ND	129	50-140			
1,2-Dichlorobenzene	38.2	0.5	ug/L	ND	95.1	60-130			
1,3-Dichlorobenzene	38.8	0.5	ug/L	ND	96.9	60-130			
1,4-Dichlorobenzene	37.4	0.5	ug/L	ND	92.9	60-130			
1,1-Dichloroethane	44.4	0.5	ug/L	ND	111	60-130			
1,2-Dichloroethane	41.6	0.5	ug/L	ND	104	60-130			
1,1-Dichloroethylene	40.7	0.5	ug/L	ND	101	60-130			
cis-1,2-Dichloroethylene	42.6	0.5	ug/L	ND	107	60-130			
trans-1,2-Dichloroethylene	41.6	0.5	ug/L	ND	104	60-130			
1,2-Dichloropropane	41.2	0.5	ug/L	ND	102	60-130			
cis-1,3-Dichloropropylene	34.6	0.5	ug/L	ND	86.2	60-130			
trans-1,3-Dichloropropylene	36.6	0.5	ug/L	ND	91.5	60-130			
Ethylbenzene	40.2	0.5	ug/L	ND	101	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	36.0	0.2	ug/L	ND	90.1	60-130			
Hexane	32.4	1.0	ug/L	ND	81.1	60-130			
Methyl Ethyl Ketone (2-Butanone)	88.6	5.0	ug/L	ND	88.6	50-140			
Methyl Isobutyl Ketone	96.3	5.0	ug/L	ND	96.3	50-140			
Methyl tert-butyl ether	84.2	2.0	ug/L	ND	83.9	50-140			
Methylene Chloride	45.3	5.0	ug/L	ND	113	60-130			
Styrene	42.3	0.5	ug/L	ND	106	60-130			
1,1,1,2-Tetrachloroethane	32.7	0.5	ug/L	ND	81.6	60-130			
1,1,2,2-Tetrachloroethane	34.2	0.5	ug/L	ND	85.5	60-130			
Tetrachloroethylene	37.3	0.5	ug/L	ND	92.9	60-130			
Toluene	33.8	0.5	ug/L	ND	84.1	60-130			
1,1,1-Trichloroethane	40.1	0.5	ug/L	ND	100	60-130			
1,1,2-Trichloroethane	38.8	0.5	ug/L	ND	97.0	60-130			
Trichloroethylene	40.7	0.5	ug/L	ND	102	60-130			
Trichlorofluoromethane	39.5	1.0	ug/L	ND	98.2	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	52.5	0.5	ug/L	ND	131	50-140			
m,p-Xylenes	79.8	0.5	ug/L	ND	99.3	60-130			
o-Xylene	40.1	0.5	ug/L	ND	99.3	60-130			
Surrogate: 4-Bromofluorobenzene	*76.1*		*%*		*94.8*	*50-140*			
Surrogate: Dibromofluoromethane	*96.8*		*%*		*121*	*50-140*			
Surrogate: Toluene-d8	*75.7*		*%*		*94.3*	*50-140*			

Qualifier Notes:

Sample Qualifiers :

3: Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
Applies to Samples: MW7

QC Qualifiers:

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.
QS-02	Spike level outside of control limits. Analysis batch accepted based on other QC included in the batch.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Sample Data Revisions:

None

Certificate of Analysis

Report Date: 20-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 16-Jun-2025

Client PO:

Project Description: 24E099

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Benzo[b]fluoranthene results may be biased high due to co-elution with Benzo[j]fluoranthene

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARACEL LABORATORIES LTD

Paracel ID: 2525032

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2525032	№ 76695

Client Name: SME
Contact Name: Tiffany Hooley
Address: 2000 Legacy Parte Drive, Windsor, ON
Telephone: 519-966-8863

Project Ref: 24E099
Quote #:
PO #:
E-mail: THooley@ctsoil.com, Tlage@ctsoil.com

Page 1 of 1

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required: _____

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☒ Med/Fine
☐ Table 2 ☒ Res/Park ☐ Coarse
☒ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☒ Yes ☐ No

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun: _____
☐ Other:

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	Required Analysis: Metals (Full)	pH	PHC's	VOC's	PAHs	SVOC's	F1 + VOC				
1	MW7	GW		8	✓	06/12/25	1:00	X	X	X	X		X					
2	MW8	↓		↓	↓	↓	2:00	X	X	X	X	X						
3	MW11	↓		↓	↓	↓	3:00	X	X	X	X	X						
4	DUP1	↓		4	↓	↓	6:00	X				X						
5	Trip Blank 25E0913	W		1		06/11/25	11:30							X				
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: Walk in

Relinquished By (Sign): TLage	Received at Depot: K. Jakobsen	Received at Lab: N	Verified By: K. Jakobsen
Relinquished By (Print): Tanner Page	Date/Time: June 16/25 10:45	Date/Time: 6/17/25 9:50	Date/Time: June 16/25 12:30
Date/Time: 06/16/2025	Temperature: 9.1 °C	Temperature: 10.5 °C	pH Verified: ☑ By: K. Jakobsen

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Certificate of Analysis

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, ON N8W 5S6
Attn: Tiffany Hooley

Client PO:
Project: 24E099
Custody: 77253, 77254

Report Date: 20-May-2025
Order Date: 13-May-2025

Order #: 2520173

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

Paracel ID	Client ID
2520173-01	1/0.5
2520173-02	1/5.0
2520173-03	2/0.5
2520173-04	2/2.5
2520173-05	3/0.5
2520173-06	3/2.5
2520173-07	4/0.5
2520173-08	4/2.0
2520173-09	5/0.5
2520173-10	5/2.5
2520173-11	6/1.0
2520173-12	6/2.5
2520173-13	DUP1

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	15-May-25	15-May-25
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	15-May-25	15-May-25
Mercury by CVAA	EPA 7471B - CVAA, digestion	15-May-25	15-May-25
pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	15-May-25	15-May-25
PHC F1	CWS Tier 1 - P&T GC-FID	15-May-25	15-May-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	14-May-25	15-May-25
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	15-May-25	15-May-25
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	16-May-25	18-May-25
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	15-May-25	15-May-25
Solids, %	CWS Tier 1 - Gravimetric	13-May-25	15-May-25

Summary of Criteria Exceedances

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

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

Regulatory Comparison:

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

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Res/Park, fine	-
1/0.5	Trichloroethylene	0.05 ug/g	14.6	0.52 ug/g	-
1/0.5	Anthracene	0.02 ug/g	1.39	0.74 ug/g	-
1/0.5	Benzo [a] anthracene	0.02 ug/g	1.07	0.63 ug/g	-
1/0.5	Benzo [a] pyrene	0.02 ug/g	1.87	0.3 ug/g	-
1/0.5	Benzo [b] fluoranthene	0.02 ug/g	2.07	0.78 ug/g	-
1/0.5	Benzo [k] fluoranthene	0.02 ug/g	1.19	0.78 ug/g	-
1/0.5	Dibenzo [a,h] anthracene	0.02 ug/g	0.33	0.1 ug/g	-
1/0.5	Fluoranthene	0.02 ug/g	3.30	0.69 ug/g	-
1/0.5	Indeno [1,2,3-cd] pyrene	0.02 ug/g	1.17	0.48 ug/g	-
2/0.5	Boron, available	0.5 ug/g	2.2	1.5 ug/g	-
2/0.5	Trichloroethylene	0.05 ug/g	1.12	0.52 ug/g	-
4/0.5	Molybdenum	1.0 ug/g	46.7	6.9 ug/g	-
6/1.0	Boron, available	0.5 ug/g	1.6	1.5 ug/g	-
6/1.0	Molybdenum	1.0 ug/g	7.8	6.9 ug/g	-
6/1.0	Trichloroethylene	0.05 ug/g	1.90	0.52 ug/g	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

	Client ID:	1/0.5	1/5.0	2/0.5	2/2.5	Criteria:	
	Sample Date:	08-May-25 09:10	08-May-25 09:20	08-May-25 10:30	08-May-25 10:40	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-01	2520173-02	2520173-03	2520173-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	79.7	85.2	78.9	80.5	-	-
General Inorganics							
pH	0.05 pH Units	7.28	7.57	6.45	-	5.00 - 9.00 pH Units	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	7.5 ug/g	-
Arsenic	1.0 ug/g	8.0	12.0	8.6	9.7	18 ug/g	-
Barium	1.0 ug/g	93.8	156	103	114	390 ug/g	-
Beryllium	0.5 ug/g	0.9	1.0	0.9	1.1	5 ug/g	-
Boron, available	0.5 ug/g	1.0	0.5	2.2	0.8	1.5 ug/g	-
Boron	5.0 ug/g	9.9	16.2	10.7	12.4	120 ug/g	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	0.5	1.2 ug/g	-
Chromium (VI)	0.2 ug/g	<0.2	0.4	0.4	0.4	10 ug/g	-
Chromium	5.0 ug/g	27.1	36.6	25.0	35.9	160 ug/g	-
Cobalt	1.0 ug/g	10.3	12.7	11.9	11.4	22 ug/g	-
Copper	5.0 ug/g	17.2	41.7	18.8	22.6	180 ug/g	-
Lead	1.0 ug/g	15.8	62.0	23.6	20.6	120 ug/g	-
Mercury	0.1 ug/g	<0.1	<0.1	0.1	<0.1	1.8 ug/g	-
Molybdenum	1.0 ug/g	3.5	6.4	2.1	2.7	6.9 ug/g	-
Nickel	5.0 ug/g	20.7	32.8	17.8	28.0	130 ug/g	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.4 ug/g	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	25 ug/g	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g	-
Uranium	1.0 ug/g	1.3	1.1	1.3	1.2	23 ug/g	-
Vanadium	10.0 ug/g	39.7	43.6	36.2	45.4	86 ug/g	-
Zinc	20.0 ug/g	72.2	155	90.4	104	340 ug/g	-

	Client ID:	1/0.5	1/5.0	2/0.5	2/2.5	Criteria:	
	Sample Date:	08-May-25 09:10	08-May-25 09:20	08-May-25 10:30	08-May-25 10:40	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-01	2520173-02	2520173-03	2520173-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Acetone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	28 ug/g	-
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	13 ug/g	-
Bromoform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.26 ug/g	-
Bromomethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	2.7 ug/g	-
Chloroform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	0.37	<0.05	0.07	<0.05	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.083 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Ethylbenzene	0.05 ug/g	0.13	<0.05	<0.05	<0.05	15 ug/g	-
Hexane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	34 ug/g	-

	Client ID:	1/0.5	1/5.0	2/0.5	2/2.5	Criteria:	
	Sample Date:	08-May-25 09:10	08-May-25 09:20	08-May-25 10:30	08-May-25 10:40	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-01	2520173-02	2520173-03	2520173-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	44 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.96 ug/g	-
Styrene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	0.21	<0.05	<0.05	<0.05	2.3 ug/g	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	14.6	0.18	1.12	0.06	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	0.82	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	0.70	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	1.52	<0.05	<0.05	<0.05	25 ug/g	-
Toluene-d8	Surrogate	126%	129%	133%	133%	-	-
Dibromofluoromethane	Surrogate	90.8%	89.8%	93.2%	93.0%	-	-
4-Bromofluorobenzene	Surrogate	110%	111%	116%	114%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	12	<7	<7	<7	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	36	55	25	20	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	<6	28	7	33	5600 ug/g	-

	Client ID:	1/0.5	1/5.0	2/0.5	2/2.5	Criteria:	
	Sample Date:	08-May-25 09:10	08-May-25 09:20	08-May-25 10:30	08-May-25 10:40	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-01	2520173-02	2520173-03	2520173-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	0.46	<0.02	<0.02	<0.02	58 ug/g	-
Acenaphthylene	0.02 ug/g	0.17	<0.02	<0.02	<0.02	0.17 ug/g	-
Anthracene	0.02 ug/g	1.39	<0.02	<0.02	<0.02	0.74 ug/g	-
Benzo [a] anthracene	0.02 ug/g	1.07	<0.02	<0.02	<0.02	0.63 ug/g	-
Benzo [a] pyrene	0.02 ug/g	1.87	<0.02	<0.02	<0.02	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	2.07	<0.02	<0.02	<0.02	0.78 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	1.20	<0.02	<0.02	<0.02	7.8 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	1.19	<0.02	<0.02	<0.02	0.78 ug/g	-
Chrysene	0.02 ug/g	1.00	<0.02	<0.02	<0.02	7.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	0.33	<0.02	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	3.30	0.05	<0.02	0.06	0.69 ug/g	-
Fluorene	0.02 ug/g	0.56	<0.02	<0.02	<0.02	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	1.17	<0.02	<0.02	<0.02	0.48 ug/g	-
1-Methylnaphthalene	0.02 ug/g	0.57	<0.02	<0.02	<0.02	3.4 ug/g	-
2-Methylnaphthalene	0.02 ug/g	0.64	<0.02	<0.02	<0.02	3.4 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	1.22	<0.04	<0.04	<0.04	3.4 ug/g	-
Naphthalene	0.01 ug/g	0.56	0.01	<0.01	<0.01	0.75 ug/g	-
Phenanthrene	0.02 ug/g	3.20	0.04	<0.02	0.06	7.8 ug/g	-
Pyrene	0.02 ug/g	2.57	0.05	<0.02	0.05	78 ug/g	-
2-Fluorobiphenyl	Surrogate	75.6%	77.4%	71.2%	65.6%	-	-
Terphenyl-d14	Surrogate	71.0%	66.9%	70.8%	70.5%	-	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

	Client ID:	3/0.5	3/2.5	4/0.5	4/2.0	Criteria:	
	Sample Date:	08-May-25 11:50	08-May-25 12:00	08-May-25 13:10	08-May-25 13:20	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-05	2520173-06	2520173-07	2520173-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	81.3	81.8	84.2	84.4	-	-
General Inorganics							
pH	0.05 pH Units	7.81	-	7.45	-	5.00 - 9.00 pH Units	-
Metals							
Antimony	1.0 ug/g	<1.0	-	<1.0	<1.0	7.5 ug/g	-
Arsenic	1.0 ug/g	8.5	-	16.4	11.0	18 ug/g	-
Barium	1.0 ug/g	76.4	-	109	87.4	390 ug/g	-
Beryllium	0.5 ug/g	0.8	-	0.8	1.1	5 ug/g	-
Boron	5.0 ug/g	8.5	-	12.3	16.1	120 ug/g	-
Boron, available	0.5 ug/g	1.1	-	1.1	0.6	1.5 ug/g	-
Cadmium	0.5 ug/g	<0.5	-	1.1	<0.5	1.2 ug/g	-
Chromium	5.0 ug/g	27.8	-	139	32.8	160 ug/g	-
Chromium (VI)	0.2 ug/g	0.4	-	<0.2	0.9	10 ug/g	-
Cobalt	1.0 ug/g	10.9	-	15.9	13.3	22 ug/g	-
Copper	5.0 ug/g	15.0	-	36.7	27.1	180 ug/g	-
Lead	1.0 ug/g	18.2	-	113	23.5	120 ug/g	-
Mercury	0.1 ug/g	<0.1	-	0.1	<0.1	1.8 ug/g	-
Molybdenum	1.0 ug/g	2.2	-	46.7	5.1	6.9 ug/g	-
Nickel	5.0 ug/g	19.6	-	25.8	33.3	130 ug/g	-
Selenium	1.0 ug/g	<1.0	-	1.5	<1.0	2.4 ug/g	-
Silver	0.3 ug/g	<0.3	-	<0.3	<0.3	25 ug/g	-
Thallium	1.0 ug/g	<1.0	-	<1.0	<1.0	1 ug/g	-
Uranium	1.0 ug/g	1.1	-	<1.0	1.3	23 ug/g	-
Vanadium	10.0 ug/g	39.4	-	66.9	45.0	86 ug/g	-
Zinc	20.0 ug/g	57.3	-	206	76.4	340 ug/g	-

	Client ID:	3/0.5	3/2.5	4/0.5	4/2.0	Criteria:	
	Sample Date:	08-May-25 11:50	08-May-25 12:00	08-May-25 13:10	08-May-25 13:20	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-05	2520173-06	2520173-07	2520173-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Acetone	0.50 ug/g	-	<0.50	<0.50	-	28 ug/g	-
Benzene	0.02 ug/g	-	<0.02	<0.02	-	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	-	<0.05	<0.05	-	13 ug/g	-
Bromoform	0.05 ug/g	-	<0.05	<0.05	-	0.26 ug/g	-
Bromomethane	0.05 ug/g	-	<0.05	<0.05	-	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	-	<0.05	<0.05	-	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	-	<0.05	<0.05	-	2.7 ug/g	-
Chloroform	0.05 ug/g	-	<0.05	<0.05	-	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	-	<0.05	<0.05	-	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	<0.05	-	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	-	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	-	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	<0.05	-	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	-	<0.05	<0.05	-	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	-	<0.05	<0.05	-	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	-	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	-	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	<0.05	-	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	-	<0.05	<0.05	-	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	<0.05	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	<0.05	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	<0.05	-	0.083 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	<0.05	-	0.05 ug/g	-
Ethylbenzene	0.05 ug/g	-	<0.05	<0.05	-	15 ug/g	-
Hexane	0.05 ug/g	-	<0.05	<0.05	-	34 ug/g	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

	Client ID:	3/0.5	3/2.5	4/0.5	4/2.0	Criteria:	
	Sample Date:	08-May-25 11:50	08-May-25 12:00	08-May-25 13:10	08-May-25 13:20	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-05	2520173-06	2520173-07	2520173-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	<0.50	-	44 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	<0.50	-	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	<0.05	-	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	-	<0.05	<0.05	-	0.96 ug/g	-
Styrene	0.05 ug/g	-	<0.05	<0.05	-	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	<0.05	-	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	<0.05	-	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	-	<0.05	<0.05	-	2.3 ug/g	-
Toluene	0.05 ug/g	-	<0.05	<0.05	-	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	<0.05	-	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	<0.05	-	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	-	<0.05	<0.05	-	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	-	<0.05	<0.05	-	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	-	<0.02	<0.02	-	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	-	<0.05	<0.05	-	-	-
o-Xylene	0.05 ug/g	-	<0.05	<0.05	-	-	-
Xylenes, total	0.05 ug/g	-	<0.05	<0.05	-	25 ug/g	-
4-Bromofluorobenzene	Surrogate	-	111%	110%	-	-	-
Toluene-d8	Surrogate	-	130%	129%	-	-	-
Dibromofluoromethane	Surrogate	-	90.8%	87.6%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	<7	-	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	-	<4	<4	-	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	-	<8	20	-	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	-	<6	11	-	5600 ug/g	-

	Client ID:	3/0.5	3/2.5	4/0.5	4/2.0	Criteria:	
	Sample Date:	08-May-25 11:50	08-May-25 12:00	08-May-25 13:10	08-May-25 13:20	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-05	2520173-06	2520173-07	2520173-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	<0.02	-	58 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	-	<0.02	-	0.17 ug/g	-
Anthracene	0.02 ug/g	<0.02	-	0.05	-	0.74 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	0.16	-	0.63 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	0.16	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	0.20	-	0.78 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	0.15	-	7.8 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	0.10	-	0.78 ug/g	-
Chrysene	0.02 ug/g	<0.02	-	0.16	-	7.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	0.03	-	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.02	-	0.32	-	0.69 ug/g	-
Fluorene	0.02 ug/g	<0.02	-	<0.02	-	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	0.13	-	0.48 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	0.05	-	3.4 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	0.06	-	3.4 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	0.11	-	3.4 ug/g	-
Naphthalene	0.01 ug/g	<0.01	-	0.04	-	0.75 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	-	0.18	-	7.8 ug/g	-
Pyrene	0.02 ug/g	<0.02	-	0.28	-	78 ug/g	-
2-Fluorobiphenyl	Surrogate	65.9%	-	63.1%	-	-	-
Terphenyl-d14	Surrogate	70.9%	-	64.7%	-	-	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

	Client ID:	5/0.5	5/2.5	6/1.0	6/2.5	Criteria:	
	Sample Date:	08-May-25 14:30	08-May-25 14:40	08-May-25 15:30	08-May-25 16:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-09	2520173-10	2520173-11	2520173-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	84.0	84.1	75.2	82.3	-	-
General Inorganics							
pH	0.05 pH Units	7.78	-	6.91	-	5.00 - 9.00 pH Units	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	3.7	<1.0	7.5 ug/g	-
Arsenic	1.0 ug/g	7.0	6.8	15.9	9.4	18 ug/g	-
Barium	1.0 ug/g	105	82.6	135	125	390 ug/g	-
Beryllium	0.5 ug/g	0.7	0.6	1.0	1.1	5 ug/g	-
Boron, available	0.5 ug/g	0.7	<0.5	1.6	0.8	1.5 ug/g	-
Boron	5.0 ug/g	9.7	14.7	12.6	10.2	120 ug/g	-
Cadmium	0.5 ug/g	<0.5	<0.5	0.8	<0.5	1.2 ug/g	-
Chromium	5.0 ug/g	26.1	22.8	35.4	33.3	160 ug/g	-
Chromium (VI)	0.2 ug/g	0.5	0.3	0.2	0.4	10 ug/g	-
Cobalt	1.0 ug/g	8.6	8.6	12.1	12.7	22 ug/g	-
Copper	5.0 ug/g	15.2	15.5	39.5	22.4	180 ug/g	-
Lead	1.0 ug/g	18.4	8.7	99.9	15.9	120 ug/g	-
Mercury	0.1 ug/g	<0.1	<0.1	0.1	<0.1	1.8 ug/g	-
Molybdenum	1.0 ug/g	3.8	2.3	7.8	2.5	6.9 ug/g	-
Nickel	5.0 ug/g	18.5	21.6	22.4	28.7	130 ug/g	-
Selenium	1.0 ug/g	<1.0	<1.0	1.1	<1.0	2.4 ug/g	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	25 ug/g	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g	-
Uranium	1.0 ug/g	1.0	1.1	1.4	1.3	23 ug/g	-
Vanadium	10.0 ug/g	35.9	31.4	43.5	45.6	86 ug/g	-
Zinc	20.0 ug/g	63.8	41.6	296	71.6	340 ug/g	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

	Client ID:	5/0.5	5/2.5	6/1.0	6/2.5	Criteria:	
	Sample Date:	08-May-25 14:30	08-May-25 14:40	08-May-25 15:30	08-May-25 16:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-09	2520173-10	2520173-11	2520173-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Acetone	0.50 ug/g	<0.50	-	<0.50	-	28 ug/g	-
Benzene	0.02 ug/g	<0.02	-	<0.02	-	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	<0.05	-	<0.05	-	13 ug/g	-
Bromoform	0.05 ug/g	<0.05	-	<0.05	-	0.26 ug/g	-
Bromomethane	0.05 ug/g	<0.05	-	<0.05	-	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	<0.05	-	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	2.7 ug/g	-
Chloroform	0.05 ug/g	<0.05	-	<0.05	-	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	<0.05	-	<0.05	-	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	<0.05	-	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	<0.05	-	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	<0.05	-	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	0.14	-	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	<0.05	-	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	<0.05	-	0.083 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	<0.05	-	0.05 ug/g	-
Ethylbenzene	0.05 ug/g	<0.05	-	<0.05	-	15 ug/g	-
Hexane	0.05 ug/g	<0.05	-	<0.05	-	34 ug/g	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

	Client ID:	5/0.5	5/2.5	6/1.0	6/2.5	Criteria:	
	Sample Date:	08-May-25 14:30	08-May-25 14:40	08-May-25 15:30	08-May-25 16:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-09	2520173-10	2520173-11	2520173-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	<0.50	-	44 ug/g	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	<0.50	-	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	<0.05	-	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	<0.05	-	<0.05	-	0.96 ug/g	-
Styrene	0.05 ug/g	<0.05	-	<0.05	-	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	-	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	-	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	<0.05	-	2.3 ug/g	-
Toluene	0.05 ug/g	<0.05	-	<0.05	-	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	-	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	-	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	<0.05	-	1.90	-	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	<0.05	-	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	<0.02	-	<0.02	-	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	-	<0.05	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	<0.05	-	25 ug/g	-
Dibromofluoromethane	Surrogate	87.1%	-	91.7%	-	-	-
4-Bromofluorobenzene	Surrogate	113%	-	114%	-	-	-
Toluene-d8	Surrogate	132%	-	133%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	<7	-	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	<4	-	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	<8	-	<8	-	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	<6	-	<6	-	5600 ug/g	-

	Client ID:	5/0.5	5/2.5	6/1.0	6/2.5	Criteria:	
	Sample Date:	08-May-25 14:30	08-May-25 14:40	08-May-25 15:30	08-May-25 16:00	Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-09	2520173-10	2520173-11	2520173-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	<0.02	<0.02	58 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	-	<0.02	<0.02	0.17 ug/g	-
Anthracene	0.02 ug/g	<0.02	-	<0.02	<0.02	0.74 ug/g	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	0.05	<0.02	0.63 ug/g	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	0.05	<0.02	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	0.06	<0.02	0.78 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	0.04	<0.02	7.8 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	0.03	<0.02	0.78 ug/g	-
Chrysene	0.02 ug/g	<0.02	-	0.05	<0.02	7.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	<0.02	<0.02	0.1 ug/g	-
Fluoranthene	0.02 ug/g	<0.02	-	0.13	<0.02	0.69 ug/g	-
Fluorene	0.02 ug/g	<0.02	-	<0.02	<0.02	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	0.03	<0.02	0.48 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	0.06	<0.02	3.4 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	0.04	<0.02	3.4 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	0.10	<0.04	3.4 ug/g	-
Naphthalene	0.01 ug/g	<0.01	-	0.03	<0.01	0.75 ug/g	-
Phenanthrene	0.02 ug/g	<0.02	-	0.12	<0.02	7.8 ug/g	-
Pyrene	0.02 ug/g	<0.02	-	0.11	<0.02	78 ug/g	-
2-Fluorobiphenyl	Surrogate	68.0%	-	61.1%	74.6%	-	-
Terphenyl-d14	Surrogate	64.3%	-	64.4%	69.9%	-	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

	Client ID:	DUP1				**Criteria:**	
	Sample Date:	08-May-25 06:00				**Reg 153/04 -T3 Res/Park, fine**	-
	Sample ID:	2520173-13					
	Matrix:	Soil					
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	82.7	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	-	-	7.5 ug/g	-
Arsenic	1.0 ug/g	12.1	-	-	-	18 ug/g	-
Barium	1.0 ug/g	114	-	-	-	390 ug/g	-
Beryllium	0.5 ug/g	1.1	-	-	-	5 ug/g	-
Boron, available	0.5 ug/g	0.5	-	-	-	1.5 ug/g	-
Boron	5.0 ug/g	16.0	-	-	-	120 ug/g	-
Cadmium	0.5 ug/g	<0.5	-	-	-	1.2 ug/g	-
Chromium (VI)	0.2 ug/g	0.4	-	-	-	10 ug/g	-
Chromium	5.0 ug/g	38.0	-	-	-	160 ug/g	-
Cobalt	1.0 ug/g	14.9	-	-	-	22 ug/g	-
Copper	5.0 ug/g	26.1	-	-	-	180 ug/g	-
Lead	1.0 ug/g	19.2	-	-	-	120 ug/g	-
Mercury	0.1 ug/g	<0.1	-	-	-	1.8 ug/g	-
Molybdenum	1.0 ug/g	3.0	-	-	-	6.9 ug/g	-
Nickel	5.0 ug/g	34.6	-	-	-	130 ug/g	-
Selenium	1.0 ug/g	<1.0	-	-	-	2.4 ug/g	-
Silver	0.3 ug/g	<0.3	-	-	-	25 ug/g	-
Thallium	1.0 ug/g	<1.0	-	-	-	1 ug/g	-
Uranium	1.0 ug/g	1.2	-	-	-	23 ug/g	-
Vanadium	10.0 ug/g	49.2	-	-	-	86 ug/g	-
Zinc	20.0 ug/g	82.5	-	-	-	340 ug/g	-
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	-	28 ug/g	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

	Client ID:	DUP1				**Criteria:**	
	Sample Date:	08-May-25 06:00				**Reg 153/04 -T3 Res/Park, fine**	-
	Sample ID:	2520173-13					
	Matrix:	Soil					
	MDL/Units						
Volatiles							
Benzene	0.02 ug/g	<0.02	-	-	-	0.17 ug/g	-
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	13 ug/g	-
Bromoform	0.05 ug/g	<0.05	-	-	-	0.26 ug/g	-
Bromomethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	0.12 ug/g	-
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	2.7 ug/g	-
Chloroform	0.05 ug/g	<0.05	-	-	-	0.18 ug/g	-
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	9.4 ug/g	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	25 ug/g	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	4.3 ug/g	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	6 ug/g	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	0.097 ug/g	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	11 ug/g	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	30 ug/g	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	0.75 ug/g	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	0.085 ug/g	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	0.083 ug/g	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	15 ug/g	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
Hexane	0.05 ug/g	<0.05	-	-	-	34 ug/g	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	44 ug/g	-

Certificate of Analysis

Report Date: 20-May-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 13-May-2025

Client PO:

Project Description: 24E099

		Client ID:				**Criteria:**	
		Sample Date:				**Reg 153/04 -T3 Res/Park, fine**	-
		Sample ID:	08-May-25 06:00 2520173-13				
		Matrix:	Soil				
	MDL/Units						
Volatiles							
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	4.3 ug/g	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	1.4 ug/g	-
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	0.96 ug/g	-
Styrene	0.05 ug/g	<0.05	-	-	-	2.2 ug/g	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	2.3 ug/g	-
Toluene	0.05 ug/g	<0.05	-	-	-	6 ug/g	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	3.4 ug/g	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	-
Trichloroethylene	0.05 ug/g	0.39	-	-	-	0.52 ug/g	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	5.8 ug/g	-
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	0.022 ug/g	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	0.09	-	-	-	25 ug/g	-
4-Bromofluorobenzene	Surrogate	113%	-	-	-	-	-
Dibromofluoromethane	Surrogate	89.7%	-	-	-	-	-
Toluene-d8	Surrogate	132%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	65 ug/g	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	150 ug/g	-
F3 PHCs (C16-C34)	8 ug/g	<8	-	-	-	1300 ug/g	-
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	-	5600 ug/g	-
Semi-Volatiles							

	Client ID:	DUP1				Criteria:	
	Sample Date:	08-May-25 06:00				Reg 153/04 -T3 Res/Park, fine	-
	Sample ID:	2520173-13					
	Matrix:	Soil					
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	-	58 ug/g	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	0.17 ug/g	-
Anthracene	0.02 ug/g	<0.02	-	-	-	0.74 ug/g	-
Benzo [a] anthracene	0.02 ug/g	0.03	-	-	-	0.63 ug/g	-
Benzo [a] pyrene	0.02 ug/g	0.03	-	-	-	0.3 ug/g	-
Benzo [b] fluoranthene	0.02 ug/g	0.04	-	-	-	0.78 ug/g	-
Benzo [g,h,i] perylene	0.02 ug/g	0.03	-	-	-	7.8 ug/g	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.78 ug/g	-
Chrysene	0.02 ug/g	0.03	-	-	-	7.8 ug/g	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	0.1 ug/g	-
Fluoranthene	0.02 ug/g	0.06	-	-	-	0.69 ug/g	-
Fluorene	0.02 ug/g	<0.02	-	-	-	69 ug/g	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.03	-	-	-	0.48 ug/g	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	3.4 ug/g	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	3.4 ug/g	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	-	3.4 ug/g	-
Naphthalene	0.01 ug/g	0.01	-	-	-	0.75 ug/g	-
Phenanthrene	0.02 ug/g	0.04	-	-	-	7.8 ug/g	-
Pyrene	0.02 ug/g	0.06	-	-	-	78 ug/g	-
2-Fluorobiphenyl	Surrogate	70.1%	-	-	-	-	-
Terphenyl-d14	Surrogate	72.4%	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron, available	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Mercury	ND	0.1	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*0.960*		*%*	*72.0*	*50-140*			
Surrogate: Terphenyl-d14	*0.943*		*%*	*70.7*	*50-140*			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	*8.18*		*%*	*102*	*50-140*			
Surrogate: Dibromofluoromethane	*6.72*		*%*	*84.0*	*50-140*			
Surrogate: Toluene-d8	*9.52*		*%*	*119*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
pH	7.55	0.05	pH Units	7.56			0.1	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	25	8	ug/g	36			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	17.9	1.0	ug/g	17.6			1.7	30	
Barium	58.2	1.0	ug/g	58.9			1.3	30	
Beryllium	0.7	0.5	ug/g	0.6			10.2	30	
Boron, available	1.08	0.5	ug/g	1.04			3.9	35	
Boron	8.1	5.0	ug/g	7.0			14.5	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	19.9	5.0	ug/g	19.0			4.6	30	
Cobalt	7.0	1.0	ug/g	6.6			6.4	30	
Copper	20.8	5.0	ug/g	20.0			4.2	30	
Lead	59.2	1.0	ug/g	60.5			2.2	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	12.9	5.0	ug/g	12.3			4.7	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	27.9	10.0	ug/g	26.7			4.5	30	
Zinc	50.5	20.0	ug/g	49.4			2.2	30	
Physical Characteristics									
% Solids	79.0	0.1	% by Wt.	77.5			1.9	25	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Semi-Volatiles									
Acenaphthene	0.308	0.02	ug/g	0.461			39.9	40	
Acenaphthylene	0.259	0.02	ug/g	0.171			40.9	40	QR-04
Anthracene	0.758	0.02	ug/g	1.39			58.7	40	QR-04
Benzo [a] anthracene	1.19	0.02	ug/g	1.07			10.1	40	
Benzo [a] pyrene	1.01	0.02	ug/g	1.87			59.8	40	QR-04
Benzo [b] fluoranthene	1.09	0.02	ug/g	2.07			62.3	40	QR-04
Benzo [g,h,i] perylene	0.719	0.02	ug/g	1.20			49.9	40	QR-04
Benzo [k] fluoranthene	0.678	0.02	ug/g	1.19			55.1	40	QR-04
Chrysene	0.980	0.02	ug/g	0.997			1.7	40	
Dibenzo [a,h] anthracene	0.287	0.02	ug/g	0.333			15.0	40	
Fluoranthene	2.80	0.02	ug/g	3.30			16.5	40	
Fluorene	0.351	0.02	ug/g	0.559			45.8	40	QR-04
Indeno [1,2,3-cd] pyrene	0.704	0.02	ug/g	1.17			49.7	40	QR-04
1-Methylnaphthalene	0.362	0.02	ug/g	0.573			45.2	40	QR-04
2-Methylnaphthalene	0.383	0.02	ug/g	0.643			50.8	40	QR-04
Naphthalene	0.323	0.01	ug/g	0.561			54.0	40	QR-04
Phenanthrene	2.46	0.02	ug/g	3.20			26.0	40	
Pyrene	2.23	0.02	ug/g	2.57			14.2	40	
Surrogate: 2-Fluorobiphenyl	*1.12*		*%*		*67.0*	*50-140*			
Surrogate: Terphenyl-d14	*1.07*		*%*		*64.0*	*50-140*			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	0.240	0.05	ug/g	0.181			28.0	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*10.1*		*%*		*108*	*50-140*			
Surrogate: Dibromofluoromethane	*8.22*		*%*		*87.6*	*50-140*			
Surrogate: Toluene-d8	*11.8*		*%*		*125*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	178	7	ug/g	ND	104	85-115			
F2 PHCs (C10-C16)	84	4	ug/g	ND	83.7	60-140			
F3 PHCs (C16-C34)	265	8	ug/g	36	93.1	60-140			
F4 PHCs (C34-C50)	139	6	ug/g	ND	89.6	60-140			
Metals									
Antimony	42.2	1.0	ug/g	ND	84.1	70-130			
Arsenic	49.2	1.0	ug/g	7.0	84.4	70-130			
Barium	67.5	1.0	ug/g	23.6	87.9	70-130			
Beryllium	47.4	0.5	ug/g	ND	94.3	70-130			
Boron, available	4.53	0.5	ug/g	1.04	69.7	60-140			
Boron	52.0	5.0	ug/g	ND	98.4	70-130			
Cadmium	45.1	0.5	ug/g	ND	90.1	70-130			
Chromium (VI)	5.0	0.2	ug/g	ND	100	66-118			
Chromium	56.7	5.0	ug/g	7.6	98.3	70-130			
Cobalt	50.4	1.0	ug/g	2.6	95.6	70-130			
Copper	53.4	5.0	ug/g	8.0	90.8	70-130			
Lead	63.6	1.0	ug/g	24.2	78.7	70-130			
Mercury	1.29	0.1	ug/g	ND	85.9	70-130			
Molybdenum	46.1	1.0	ug/g	ND	92.0	70-130			
Nickel	47.7	5.0	ug/g	ND	85.5	70-130			
Selenium	43.8	1.0	ug/g	ND	87.3	70-130			
Silver	39.0	0.3	ug/g	ND	78.0	70-130			
Thallium	45.8	1.0	ug/g	ND	91.4	70-130			
Uranium	44.9	1.0	ug/g	ND	89.4	70-130			
Vanadium	55.5	10.0	ug/g	10.7	89.7	70-130			
Zinc	60.2	20.0	ug/g	ND	80.9	70-130			
Semi-Volatiles									
Acenaphthene	0.088	0.02	ug/g	ND	53.1	50-140			
Acenaphthylene	0.090	0.02	ug/g	ND	53.8	50-140			
Anthracene	0.087	0.02	ug/g	ND	52.0	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [a] anthracene	1.19	0.02	ug/g	1.07	54.5	50-140			
Benzo [a] pyrene	0.084	0.02	ug/g	ND	50.3	50-140			
Benzo [b] fluoranthene	0.094	0.02	ug/g	ND	56.6	50-140			
Benzo [g,h,i] perylene	0.092	0.02	ug/g	ND	55.1	50-140			
Benzo [k] fluoranthene	0.088	0.02	ug/g	ND	52.7	50-140			
Chrysene	0.098	0.02	ug/g	ND	59.1	50-140			
Dibenzo [a,h] anthracene	0.096	0.02	ug/g	ND	57.5	50-140			
Fluoranthene	0.103	0.02	ug/g	ND	61.6	50-140			
Fluorene	0.090	0.02	ug/g	ND	53.8	50-140			
Indeno [1,2,3-cd] pyrene	0.092	0.02	ug/g	ND	55.4	50-140			
1-Methylnaphthalene	0.086	0.02	ug/g	ND	51.6	50-140			
2-Methylnaphthalene	0.089	0.02	ug/g	ND	53.5	50-140			
Naphthalene	0.088	0.01	ug/g	ND	52.6	50-140			
Phenanthrene	0.099	0.02	ug/g	ND	59.1	50-140			
Pyrene	0.102	0.02	ug/g	ND	61.2	50-140			
Surrogate: 2-Fluorobiphenyl	*1.12*		*%*		*67.0*	*50-140*			
Surrogate: Terphenyl-d14	*1.07*		*%*		*64.0*	*50-140*			
Volatiles									
Acetone	9.39	0.50	ug/g	ND	93.9	50-140			
Benzene	2.82	0.02	ug/g	ND	70.4	60-130			
Bromodichloromethane	2.61	0.05	ug/g	ND	65.2	60-130			
Bromoform	3.68	0.05	ug/g	ND	92.0	60-130			
Bromomethane	3.77	0.05	ug/g	ND	94.2	50-140			
Carbon Tetrachloride	2.87	0.05	ug/g	ND	71.8	60-130			
Chlorobenzene	4.22	0.05	ug/g	ND	105	60-130			
Chloroform	3.04	0.05	ug/g	ND	75.9	60-130			
Dibromochloromethane	3.56	0.05	ug/g	ND	88.9	60-130			
Dichlorodifluoromethane	3.48	0.05	ug/g	ND	87.0	50-140			
1,2-Dichlorobenzene	4.55	0.05	ug/g	ND	114	60-130			
1,3-Dichlorobenzene	4.50	0.05	ug/g	ND	112	60-130			
1,4-Dichlorobenzene	4.59	0.05	ug/g	ND	115	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1-Dichloroethane	3.14	0.05	ug/g	ND	78.5	60-130			
1,2-Dichloroethane	3.03	0.05	ug/g	ND	75.8	60-130			
1,1-Dichloroethylene	3.45	0.05	ug/g	ND	86.3	60-130			
cis-1,2-Dichloroethylene	2.91	0.05	ug/g	ND	72.7	60-130			
trans-1,2-Dichloroethylene	3.31	0.05	ug/g	ND	82.8	60-130			
1,2-Dichloropropane	2.73	0.05	ug/g	ND	68.2	60-130			
cis-1,3-Dichloropropylene	2.85	0.05	ug/g	ND	71.2	60-130			
trans-1,3-Dichloropropylene	2.92	0.05	ug/g	ND	72.9	60-130			
Ethylbenzene	4.41	0.05	ug/g	ND	110	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	3.03	0.05	ug/g	ND	75.7	60-130			
Hexane	3.18	0.05	ug/g	ND	79.5	60-130			
Methyl Ethyl Ketone (2-Butanone)	7.02	0.50	ug/g	ND	70.2	50-140			
Methyl Isobutyl Ketone	7.42	0.50	ug/g	ND	74.2	50-140			
Methyl tert-butyl ether	7.07	0.05	ug/g	ND	70.7	50-140			
Methylene Chloride	4.01	0.05	ug/g	ND	100	60-130			
Styrene	4.67	0.05	ug/g	ND	117	60-130			
1,1,1,2-Tetrachloroethane	3.27	0.05	ug/g	ND	81.8	60-130			
1,1,2,2-Tetrachloroethane	3.29	0.05	ug/g	ND	82.4	60-130			
Tetrachloroethylene	4.61	0.05	ug/g	ND	115	60-130			
Toluene	4.55	0.05	ug/g	ND	114	60-130			
1,1,1-Trichloroethane	2.71	0.05	ug/g	ND	67.8	60-130			
1,1,2-Trichloroethane	2.60	0.05	ug/g	ND	65.1	60-130			
Trichloroethylene	2.96	0.05	ug/g	ND	74.0	60-130			
Trichlorofluoromethane	4.03	0.05	ug/g	ND	101	50-140			
Vinyl chloride	3.33	0.02	ug/g	ND	83.2	50-140			
m,p-Xylenes	9.67	0.05	ug/g	ND	121	60-130			
o-Xylene	4.86	0.05	ug/g	ND	122	60-130			
Surrogate: 4-Bromofluorobenzene	*7.81*		*%*		*97.6*	*50-140*			
Surrogate: Dibromofluoromethane	*6.25*		*%*		*78.1*	*50-140*			
Surrogate: Toluene-d8	*9.38*		*%*		*117*	*50-140*			

Qualifier Notes:

QC Qualifiers:

QR-04 Duplicate results exceeds RPD limits due to non-homogeneous matrix.

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

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

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARACEL LABORATORIES LTD

Paracel ID: 2520173

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2520173	№ 77253

Client Name: SME
Contact Name: Tiffany Hooey
Address: 2600 Legacy Point Drive, Windsor ON.
Telephone: 519-966-8863

Project Ref: 24E099
Quote #:
PO #:
E-mail: thooey@sme.com tfoger@sme.com

Page 1 of 2

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required: _____

☒ REG 153/04 ☐ REG 406/19

Other Regulation	
☐ Table 1 ☐ Agri/Other ☒ Med/Fine	☐ REG 558 ☐ PWQO
☐ Table 2 ☒ Res/Park ☐ Coarse	☐ CCME ☐ MISA
☒ Table 3 ☐ Ind/Comm	☐ SU - Sani ☐ SU - Storm
☐ Table ___	Mun: _____
For RSC: ☐ Yes ☐ No	☐ Other:

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	Metals	pH	EPH	PAHs	VOCs
1	1 | 0.5	S		2		05/08/25	9:10	X	X	X	X	X
2	1 | 5.0	S		2		05/08/25	9:20	X	X	X	X	X
3	2 | 0.5	S		2			10:30	X	X	X	X	X
4	2 | 2.5	S		2			10:40	X		X	X	X
5	3 | 0.5	S		1			11:50	X	X	X		
6	3 | 2.5	S		2			12:00				X	X
7	4 | 0.5	S		2			1:10	X	X	X	X	X
8	4 | 2.0	S		1			1:20	X				
9	5 | 0.5	S		2			2:30	X	X	X	X	X
10	5 | 2.5	S		1			2:40	X				

Comments:

Method of Delivery: Walk in

Relinquished By (Sign): Tiffany Hooey	Received at Depot: K. Jakobsen	Received at Lab: LTJ	Verified By: K. Jakobsen
Relinquished By (Print): Tiffany Hooey	Date/Time: May 13/25 1250	Date/Time: 14/05/25; 10:15	Date/Time: May 13/25 14:10
Date/Time: 05/13/25	Temperature: 7.9 °C	Temperature: 8.2 °C	pH Verified: ☐ By:

PARACEL LABORATORIES LTD

Paracel ID: 2520173

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2520173	№ 77254

Client Name: SME	Project Ref: 24E099	Page 2 of 2
Contact Name: Tiffany Hooley	Quote #:	Turnaround Time
Address: 2000 Legacy Park Drive, Windsor ON	PO #:	☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Telephone: 519-966-8863	E-mail: thooley@ctsoil.com tpage@ctsoil.com	Date Required:

☒ REG 153/04 ☐ REG 406/19	Other Regulation
☐ Table 1 ☐ Agri/Other ☒ Med/Fine	☐ REG 558 ☐ PWQO
☐ Table 2 ☒ Res/Park ☐ Coarse	☐ CCME ☐ MISA
☐ Table 3 ☐ Ind/Comm	☐ SU - Sani ☐ SU - Storm
☐ Table ___	Mun:
For RSC: ☐ Yes ☐ No	☐ Other:

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken Date	Sample Taken Time	Required Analysis: Metals	pH	PAH	PHC	VOC						
1	6/1.0	S		2		05/08/25	3:30	X	X	X	X	X						
2	6/2.5	S		1		↓	4:00	X		X								
3	DUP1	S		2		↓	6:00	X		X	X	X						
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: Walk in

Relinquished By (Sign): Page	Received at Depot: K. Jakobsen	Received at Lab: LTJ	Verified By: K. Jakobsen
Relinquished By (Print): Tanner Page	Date/Time: May 13/25 12:50	Date/Time: 14/05/25 10:15	Date/Time: May 13/25 14:10
Date/Time: 05/13/25	Temperature: 7.9 °C	Temperature: 8.2 °C	pH Verified: ☐ By:

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Certificate of Analysis

Soil & Materials Engineering Inc.
2000 Legacy Park Drive
Windsor, ON N8W 5S6
Attn: Tiffany Hooley

Client PO:
Project: 24E099
Custody: 77251

Report Date: 24-Jun-2025
Order Date: 18-Jun-2025

Order #: 2525273

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

Paracel ID	Client ID
2525273-01	MW10
2525273-02	MW9
2525273-03	DUP3
2525273-04	DUP2

Approved By:

Alex Enfield, MSc
Lab Manager

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Chromium, hexavalent - water	MOE E3056 - colourimetric	19-Jun-25	20-Jun-25
PHC F1	CWS Tier 1 - P&T GC-FID	19-Jun-25	20-Jun-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	20-Jun-25	24-Jun-25
REG 153: ABNs + PAHs	based on SW-846 8270	23-Jun-25	24-Jun-25
REG 153: Mercury by CVAA	EPA 245.2 - Cold Vapour AA	23-Jun-25	23-Jun-25
REG 153: Metals by ICP/MS, water	EPA 200.8 - ICP-MS	19-Jun-25	19-Jun-25
REG 153: PAHs by GC-MS	EPA 625 - GC-MS, extraction	23-Jun-25	24-Jun-25
REG 153: pH, water	EPA 150.1 - pH probe @25 °C	20-Jun-25	20-Jun-25
REG 153: VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	20-Jun-25	20-Jun-25

Summary of Criteria Exceedances

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

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

Regulatory Comparison:

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

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Non-Potable Groundwater, fine	-

Certificate of Analysis

Report Date: 24-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 18-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	MW10	MW9	DUP3	DUP2	Criteria:	
	Sample Date:	18-Jun-25 09:00	18-Jun-25 11:00	18-Jun-25 06:00	18-Jun-25 07:00	Reg 153/04 -T3	-
	Sample ID:	2525273-01	2525273-02	2525273-03	2525273-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
General Inorganics							
pH	0.1 pH Units	7.2	7.3	7.2	-	5.00 - 9.00 pH Units	-
Metals							
Mercury	0.1 ug/L	<0.1	<0.1	-	-	2.8 ug/L	-
Antimony	0.5 ug/L	<0.5	<0.5	-	-	20000 ug/L	-
Arsenic	1.0 ug/L	<1.0	<1.0	-	-	1900 ug/L	-
Barium	1.0 ug/L	42.7	30.0	-	-	29000 ug/L	-
Beryllium	0.5 ug/L	<0.5	<0.5	-	-	67 ug/L	-
Boron	10.0 ug/L	782	477	-	-	45000 ug/L	-
Cadmium	0.2 ug/L	<0.2	<0.2	-	-	2.7 ug/L	-
Chromium (VI)	10 ug/L	<10	<10	-	-	140 ug/L	-
Chromium	1.0 ug/L	<1.0	<1.0	-	-	810 ug/L	-
Cobalt	0.5 ug/L	2.9	4.6	-	-	66 ug/L	-
Copper	0.5 ug/L	1.9	2.7	-	-	87 ug/L	-
Lead	0.2 ug/L	<0.2	<0.2	-	-	25 ug/L	-
Molybdenum	0.5 ug/L	11.0	16.4	-	-	9200 ug/L	-
Nickel	1.0 ug/L	5.9	9.0	-	-	490 ug/L	-
Selenium	1.0 ug/L	1.3	2.2	-	-	63 ug/L	-
Silver	0.2 ug/L	<0.2	<0.2	-	-	1.5 ug/L	-
Sodium	200 ug/L	305000	201000	-	-	2300000 ug/L	-
Thallium	0.5 ug/L	<0.5	<0.5	-	-	510 ug/L	-
Uranium	0.2 ug/L	22.7	36.9	-	-	420 ug/L	-
Vanadium	0.5 ug/L	1.4	1.0	-	-	250 ug/L	-
Zinc	5.0 ug/L	<5.0	<5.0	-	-	1100 ug/L	-
Volatiles							
Acetone	5.0 ug/L	<5.0	<5.0	-	<5.0	130000 ug/L	-

Certificate of Analysis

Report Date: 24-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 18-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	MW10	MW9	DUP3	DUP2	Criteria:	
	Sample Date:	18-Jun-25 09:00	18-Jun-25 11:00	18-Jun-25 06:00	18-Jun-25 07:00	Reg 153/04 -T3	-
	Sample ID:	2525273-01	2525273-02	2525273-03	2525273-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
Volatiles							
Benzene	0.5 ug/L	<0.5	<0.5	-	<0.5	430 ug/L	-
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	-	<0.5	85000 ug/L	-
Bromoform	0.5 ug/L	<0.5	<0.5	-	<0.5	770 ug/L	-
Bromomethane	0.5 ug/L	<0.5	<0.5	-	<0.5	56 ug/L	-
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	-	<0.2	8.4 ug/L	-
Chlorobenzene	0.5 ug/L	<0.5	<0.5	-	<0.5	630 ug/L	-
Chloroform	0.5 ug/L	<0.5	<0.5	-	<0.5	22 ug/L	-
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	-	<0.5	82000 ug/L	-
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	-	<1.0	4400 ug/L	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	-	<0.5	9600 ug/L	-
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	-	<0.5	9600 ug/L	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	-	<0.5	67 ug/L	-
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	-	<0.5	3100 ug/L	-
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	-	<0.5	12 ug/L	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	<0.5	17 ug/L	-
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	<0.5	17 ug/L	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	<0.5	17 ug/L	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	-	<0.5	140 ug/L	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	-	<0.5	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	-	<0.5	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	-	<0.5	45 ug/L	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	-	<0.5	2300 ug/L	-
Ethylene dibromide (dibromoethane,	0.2 ug/L	<0.2	<0.2	-	<0.2	0.83 ug/L	-
Hexane	1.0 ug/L	<1.0	<1.0	-	<1.0	520 ug/L	-
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	-	<5.0	1500000 ug/L	-

Certificate of Analysis

Report Date: 24-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 18-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	MW10	MW9	DUP3	DUP2	Criteria:	
	Sample Date:	18-Jun-25 09:00	18-Jun-25 11:00	18-Jun-25 06:00	18-Jun-25 07:00	Reg 153/04 -T3	-
	Sample ID:	2525273-01	2525273-02	2525273-03	2525273-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
Volatiles							
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	-	<5.0	580000 ug/L	-
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	-	<2.0	1400 ug/L	-
Methylene Chloride	5.0 ug/L	<5.0	<5.0	-	<5.0	5500 ug/L	-
Styrene	0.5 ug/L	<0.5	<0.5	-	<0.5	9100 ug/L	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	-	<0.5	28 ug/L	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	-	<0.5	15 ug/L	-
Tetrachloroethylene	0.5 ug/L	<0.5	<0.5	-	<0.5	17 ug/L	-
Toluene	0.5 ug/L	<0.5	<0.5	-	<0.5	18000 ug/L	-
1,1,1-Trichloroethane	0.5 ug/L	<0.5	<0.5	-	<0.5	6700 ug/L	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	-	<0.5	30 ug/L	-
Trichloroethylene	0.5 ug/L	<0.5	<0.5	-	<0.5	17 ug/L	-
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	-	<1.0	2500 ug/L	-
Vinyl chloride	0.5 ug/L	<0.5	<0.5	-	<0.5	1.7 ug/L	-
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	-	<0.5	-	-
o-Xylene	0.5 ug/L	<0.5	<0.5	-	<0.5	-	-
Xylenes, total	0.5 ug/L	<0.5	<0.5	-	<0.5	4200 ug/L	-
Dibromofluoromethane	Surrogate	75.3%	92.7%	-	75.4%	-	-
Toluene-d8	Surrogate	112%	111%	-	111%	-	-
4-Bromofluorobenzene	Surrogate	113%	115%	-	114%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	25 ug/L	<25	<25	-	<25	750 ug/L	-
F2 PHCs (C10-C16)	100 ug/L	<100	<100	-	<100	150 ug/L	-
F3 PHCs (C16-C34)	100 ug/L	<100	<100	-	<100	500 ug/L	-
F4 PHCs (C34-C50)	100 ug/L	<100	<100	-	<100	500 ug/L	-
Semi-Volatiles							

Certificate of Analysis

Report Date: 24-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 18-Jun-2025

Client PO:

Project Description: 24E099

	Client ID:	MW10	MW9	DUP3	DUP2	Criteria:	
	Sample Date:	18-Jun-25 09:00	18-Jun-25 11:00	18-Jun-25 06:00	18-Jun-25 07:00	Reg 153/04 -T3 Non-Potable Groundwater, fine	-
	Sample ID:	2525273-01	2525273-02	2525273-03	2525273-04		
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.05 ug/L	-	<0.05	-	-	1700 ug/L	-
Acenaphthylene	0.05 ug/L	-	<0.05	-	-	1.8 ug/L	-
Anthracene	0.01 ug/L	-	<0.01	-	-	2.4 ug/L	-
Benzo [a] anthracene	0.01 ug/L	-	<0.01	-	-	4.7 ug/L	-
Benzo [a] pyrene	0.01 ug/L	-	<0.01	-	-	0.81 ug/L	-
Benzo [b] fluoranthene	0.05 ug/L	-	<0.05	-	-	0.75 ug/L	-
Benzo [g,h,i] perylene	0.05 ug/L	-	<0.05	-	-	0.2 ug/L	-
Benzo [k] fluoranthene	0.05 ug/L	-	<0.05	-	-	0.4 ug/L	-
Chrysene	0.05 ug/L	-	<0.05	-	-	1 ug/L	-
Dibenzo [a,h] anthracene	0.05 ug/L	-	<0.05	-	-	0.52 ug/L	-
Fluoranthene	0.01 ug/L	-	<0.01	-	-	130 ug/L	-
Fluorene	0.05 ug/L	-	<0.05	-	-	400 ug/L	-
Indeno [1,2,3-cd] pyrene	0.05 ug/L	-	<0.05	-	-	0.2 ug/L	-
1-Methylnaphthalene	0.05 ug/L	-	<0.05	-	-	1800 ug/L	-
2-Methylnaphthalene	0.05 ug/L	-	<0.05	-	-	1800 ug/L	-
Methylnaphthalene (1&2)	0.10 ug/L	-	<0.10	-	-	1800 ug/L	-
Naphthalene	0.05 ug/L	-	<0.05	-	-	6400 ug/L	-
Phenanthrene	0.05 ug/L	-	<0.05	-	-	580 ug/L	-
Pyrene	0.01 ug/L	-	<0.01	-	-	68 ug/L	-
2-Fluorobiphenyl	Surrogate	-	101%	-	-	-	-
Terphenyl-d14	Surrogate	-	100%	-	-	-	-
1-Methylnaphthalene	1 ug/L	<1	-	<1	-	1800 ug/L	-
1,2,4-Trichlorobenzene	0.5 ug/L	<0.5	-	<0.5	-	850 ug/L	-
2,4-Dinitrotoluene	2 ug/L	<2	-	<2	-	-	-
2,6-Dinitrotoluene	2 ug/L	<2	-	<2	-	-	-

	Client ID:	MW10	MW9	DUP3	DUP2	Criteria:	
	Sample Date:	18-Jun-25 09:00	18-Jun-25 11:00	18-Jun-25 06:00	18-Jun-25 07:00	Reg 153/04 -T3	-
	Sample ID:	2525273-01	2525273-02	2525273-03	2525273-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
Semi-Volatiles							
Dinitrotoluene (2,4 & 2,6)	3 ug/L	<3	-	<3	-	2900 ug/L	-
2-Methylnaphthalene	1 ug/L	<1	-	<1	-	1800 ug/L	-
Methylnaphthalene (1&2)	1 ug/L	<1	-	<1	-	1800 ug/L	-
3,3'-Dichlorobenzidine	0.5 ug/L	<0.5	-	<0.5	-	640 ug/L	-
4-Chloroaniline	10 ug/L	<10	-	<10	-	400 ug/L	-
Acenaphthene	1 ug/L	<1	-	<1	-	1700 ug/L	-
Anthracene	0.1 ug/L	<0.1	-	<0.1	-	2.4 ug/L	-
Acenaphthylene	1 ug/L	<1	-	<1	-	1.8 ug/L	-
Benzo [a] anthracene	0.2 ug/L	<0.2	-	<0.2	-	4.7 ug/L	-
Benzo [a] pyrene	0.01 ug/L	<0.01	-	<0.01	-	0.81 ug/L	-
Benzo [g,h,i] perylene	0.2 ug/L	<0.2	-	<0.2	-	0.2 ug/L	-
Benzo [b] fluoranthene	0.1 ug/L	<0.1	-	<0.1	-	0.75 ug/L	-
Benzo [k] fluoranthene	0.1 ug/L	<0.1	-	<0.1	-	0.4 ug/L	-
Biphenyl	0.5 ug/L	<0.5	-	<0.5	-	2200 ug/L	-
Bis(2-chloroethyl)ether	5 ug/L	<5	-	<5	-	300000 ug/L	-
Bis(2-chloroisopropyl)ether	4 ug/L	<4	-	<4	-	20000 ug/L	-
Bis(2-ethylhexyl)phthalate	10 ug/L	<10	-	<10	-	140 ug/L	-
Chrysene	0.1 ug/L	<0.1	-	<0.1	-	1 ug/L	-
Dibenzo [a,h] anthracene	0.2 ug/L	<0.2	-	<0.2	-	0.52 ug/L	-
Diethylphthalate	2 ug/L	<2	-	<2	-	38 ug/L	-
Dimethylphthalate	2 ug/L	<2	-	<2	-	38 ug/L	-
Fluoranthene	0.4 ug/L	<0.4	-	<0.4	-	130 ug/L	-
Fluorene	0.5 ug/L	<0.5	-	<0.5	-	400 ug/L	-
Indeno [1,2,3-cd] pyrene	0.2 ug/L	<0.2	-	<0.2	-	0.2 ug/L	-
Naphthalene	2 ug/L	<2	-	<2	-	6400 ug/L	-

	Client ID:	MW10	MW9	DUP3	DUP2	Criteria:	
	Sample Date:	18-Jun-25 09:00	18-Jun-25 11:00	18-Jun-25 06:00	18-Jun-25 07:00	Reg 153/04 -T3	-
	Sample ID:	2525273-01	2525273-02	2525273-03	2525273-04	Non-Potable	
	Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Groundwater, fine	
	MDL/Units						
Semi-Volatiles							
Phenanthrene	0.1 ug/L	<0.1	-	<0.1	-	580 ug/L	-
Pyrene	0.2 ug/L	<0.2	-	<0.2	-	68 ug/L	-
2,4,5-Trichlorophenol	0.2 ug/L	<0.2	-	<0.2	-	1600 ug/L	-
2,4,6-Trichlorophenol	0.2 ug/L	<0.2	-	<0.2	-	230 ug/L	-
2,4-Dichlorophenol	20 ug/L	<20	-	<20	-	4600 ug/L	-
2,4-Dimethylphenol	10 ug/L	<10	-	<10	-	39000 ug/L	-
2,4-Dinitrophenol	10 ug/L	<10	-	<10	-	11000 ug/L	-
2-Chlorophenol	2 ug/L	<2	-	<2	-	3300 ug/L	-
Pentachlorophenol	0.5 ug/L	<0.5	-	<0.5	-	62 ug/L	-
Phenol	1 ug/L	<1	-	<1	-	12000 ug/L	-
2-Fluorobiphenyl	Surrogate	77%	-	81%	-	-	-
Nitrobenzene-d5	Surrogate	89%	-	90%	-	-	-
Terphenyl-d14	Surrogate	98%	-	102%	-	-	-
2,4,6-Tribromophenol	Surrogate	85%	-	83%	-	-	-
2-Fluorophenol	Surrogate	41%	-	42%	-	-	-
Phenol-d6	Surrogate	33% [3]	-	33% [3]	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	25	ug/L					
F2 PHCs (C10-C16)	ND	100	ug/L					
F3 PHCs (C16-C34)	ND	100	ug/L					
F4 PHCs (C34-C50)	ND	100	ug/L					
Metals								
Mercury	ND	0.1	ug/L					
Antimony	ND	0.5	ug/L					
Arsenic	ND	1.0	ug/L					
Barium	ND	1.0	ug/L					
Beryllium	ND	0.5	ug/L					
Boron	ND	10.0	ug/L					
Cadmium	ND	0.2	ug/L					
Chromium (VI)	ND	10	ug/L					
Chromium	ND	1.0	ug/L					
Cobalt	ND	0.5	ug/L					
Copper	ND	0.5	ug/L					
Lead	ND	0.2	ug/L					
Molybdenum	ND	0.5	ug/L					
Nickel	ND	1.0	ug/L					
Selenium	ND	1.0	ug/L					
Silver	ND	0.2	ug/L					
Sodium	ND	200	ug/L					
Thallium	ND	0.5	ug/L					
Uranium	ND	0.2	ug/L					
Vanadium	ND	0.5	ug/L					
Zinc	ND	5.0	ug/L					
Semi-Volatiles								
Acenaphthene	ND	0.05	ug/L					
Acenaphthylene	ND	0.05	ug/L					
Anthracene	ND	0.01	ug/L					
Benzo [a] anthracene	ND	0.01	ug/L					
Benzo [a] pyrene	ND	0.01	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [b] fluoranthene	ND	0.05	ug/L					
Benzo [g,h,i] perylene	ND	0.05	ug/L					
Benzo [k] fluoranthene	ND	0.05	ug/L					
Chrysene	ND	0.05	ug/L					
Dibenzo [a,h] anthracene	ND	0.05	ug/L					
Fluoranthene	ND	0.01	ug/L					
Fluorene	ND	0.05	ug/L					
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L					
1-Methylnaphthalene	ND	0.05	ug/L					
2-Methylnaphthalene	ND	0.05	ug/L					
Methylnaphthalene (1&2)	ND	0.10	ug/L					
Naphthalene	ND	0.05	ug/L					
Phenanthrene	ND	0.05	ug/L					
Pyrene	ND	0.01	ug/L					
Surrogate: 2-Fluorobiphenyl	*8.48*		*%*	*83.9*	*50-140*			
Surrogate: Terphenyl-d14	*11.2*		*%*	*111*	*50-140*			
1-Methylnaphthalene	ND	1	ug/L					
1,2,4-Trichlorobenzene	ND	0.5	ug/L					
2,4-Dinitrotoluene	ND	2	ug/L					
2,6-Dinitrotoluene	ND	2	ug/L					
Dinitrotoluene (2,4 & 2,6)	ND	3	ug/L					
2-Methylnaphthalene	ND	1	ug/L					
Methylnaphthalene (1&2)	ND	1	ug/L					
3,3´-Dichlorobenzidine	ND	0.5	ug/L					
4-Chloroaniline	ND	10	ug/L					
Acenaphthene	ND	1	ug/L					
Anthracene	ND	0.1	ug/L					
Acenaphthylene	ND	1	ug/L					
Benzo [a] anthracene	ND	0.2	ug/L					
Benzo [a] pyrene	ND	0.01	ug/L					
Benzo [g,h,i] perylene	ND	0.2	ug/L					
Benzo [b] fluoranthene	ND	0.1	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [k] fluoranthene	ND	0.1	ug/L					
Biphenyl	ND	0.5	ug/L					
Bis(2-chloroethyl)ether	ND	5	ug/L					
Bis(2-chloroisopropyl)ether	ND	4	ug/L					
Bis(2-ethylhexyl)phthalate	ND	10	ug/L					
Chrysene	ND	0.1	ug/L					
Dibenzo [a,h] anthracene	ND	0.2	ug/L					
Diethylphthalate	ND	2	ug/L					
Dimethylphthalate	ND	2	ug/L					
Fluoranthene	ND	0.4	ug/L					
Fluorene	ND	0.5	ug/L					
Indeno [1,2,3-cd] pyrene	ND	0.2	ug/L					
Naphthalene	ND	2	ug/L					
Phenanthrene	ND	0.1	ug/L					
Pyrene	ND	0.2	ug/L					
2,4,5-Trichlorophenol	ND	0.2	ug/L					
2,4,6-Trichlorophenol	ND	0.2	ug/L					
2,4-Dichlorophenol	ND	20	ug/L					
2,4-Dimethylphenol	ND	10	ug/L					
2,4-Dinitrophenol	ND	10	ug/L					
2-Chlorophenol	ND	2	ug/L					
Pentachlorophenol	ND	0.5	ug/L					
Phenol	ND	1	ug/L					
Surrogate: 2-Fluorobiphenyl	*7.02*		*%*	*69.5*	*50-140*			
Surrogate: Nitrobenzene-d5	*7.31*		*%*	*73.1*	*40-140*			
Surrogate: Terphenyl-d14	*10.1*		*%*	*100*	*50-140*			
Surrogate: 2,4,6-Tribromophenol	*6.81*		*%*	*67.4*	*40-140*			
Surrogate: 2-Fluorophenol	*2.74*		*%*	*27.1*	*40-140*			S-GC
Surrogate: Phenol-d6	*2.11*		*%*	*20.9*	*40-140*			S-GC
Volatiles								
Acetone	ND	5.0	ug/L					
Benzene	ND	0.5	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromodichloromethane	ND	0.5	ug/L					
Bromoform	ND	0.5	ug/L					
Bromomethane	ND	0.5	ug/L					
Carbon Tetrachloride	ND	0.2	ug/L					
Chlorobenzene	ND	0.5	ug/L					
Chloroform	ND	0.5	ug/L					
Dibromochloromethane	ND	0.5	ug/L					
Dichlorodifluoromethane	ND	1.0	ug/L					
1,2-Dichlorobenzene	ND	0.5	ug/L					
1,3-Dichlorobenzene	ND	0.5	ug/L					
1,4-Dichlorobenzene	ND	0.5	ug/L					
1,1-Dichloroethane	ND	0.5	ug/L					
1,2-Dichloroethane	ND	0.5	ug/L					
1,1-Dichloroethylene	ND	0.5	ug/L					
cis-1,2-Dichloroethylene	ND	0.5	ug/L					
trans-1,2-Dichloroethylene	ND	0.5	ug/L					
1,2-Dichloropropane	ND	0.5	ug/L					
cis-1,3-Dichloropropylene	ND	0.5	ug/L					
trans-1,3-Dichloropropylene	ND	0.5	ug/L					
1,3-Dichloropropene, total	ND	0.5	ug/L					
Ethylbenzene	ND	0.5	ug/L					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L					
Hexane	ND	1.0	ug/L					
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L					
Methyl Isobutyl Ketone	ND	5.0	ug/L					
Methyl tert-butyl ether	ND	2.0	ug/L					
Methylene Chloride	ND	5.0	ug/L					
Styrene	ND	0.5	ug/L					
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L					
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L					
Tetrachloroethylene	ND	0.5	ug/L					
Toluene	ND	0.5	ug/L					
1,1,1-Trichloroethane	ND	0.5	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,2-Trichloroethane	ND	0.5	ug/L					
Trichloroethylene	ND	0.5	ug/L					
Trichlorofluoromethane	ND	1.0	ug/L					
Vinyl chloride	ND	0.5	ug/L					
m,p-Xylenes	ND	0.5	ug/L					
o-Xylene	ND	0.5	ug/L					
Xylenes, total	ND	0.5	ug/L					
Surrogate: 4-Bromofluorobenzene	*91.3*		*%*	*114*	*50-140*			
Surrogate: Dibromofluoromethane	*63.0*		*%*	*78.5*	*50-140*			
Surrogate: Toluene-d8	*88.6*		*%*	*110*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
pH	7.2	0.1	pH Units	7.2			0.3	10	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Metals									
Mercury	ND	0.1	ug/L	ND			NC	20	
Antimony	ND	0.5	ug/L	ND			NC	20	
Arsenic	ND	1.0	ug/L	ND			NC	20	
Barium	1450	1.0	ug/L	1530			5.6	20	
Beryllium	ND	0.5	ug/L	ND			NC	20	
Boron	176	10.0	ug/L	178			0.9	20	
Cadmium	ND	0.2	ug/L	ND			NC	20	
Chromium (VI)	ND	10	ug/L	ND			NC	20	
Chromium	ND	1.0	ug/L	ND			NC	20	
Cobalt	ND	0.5	ug/L	ND			NC	20	
Copper	ND	0.5	ug/L	ND			NC	20	
Lead	ND	0.2	ug/L	ND			NC	20	
Molybdenum	0.7	0.5	ug/L	0.8			5.8	20	
Nickel	ND	1.0	ug/L	ND			NC	20	
Selenium	ND	1.0	ug/L	ND			NC	20	
Silver	ND	0.2	ug/L	ND			NC	20	
Sodium	32700	200	ug/L	33100			1.0	20	
Thallium	ND	0.5	ug/L	ND			NC	20	
Uranium	ND	0.2	ug/L	ND			NC	20	
Vanadium	ND	0.5	ug/L	ND			NC	20	
Zinc	ND	5.0	ug/L	ND			NC	20	
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND			NC	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromomethane	0.78	0.5	ug/L	0.89			12.6	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	1.05	0.5	ug/L	1.08			3.2	30	
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	*89.6*		*%*		*112*	*50-140*			
Surrogate: Dibromofluoromethane	*79.6*		*%*		*99.2*	*50-140*			
Surrogate: Toluene-d8	*88.8*		*%*		*111*	*50-140*			

Method Quality Control: LCS Dup

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F2 PHCs (C10-C16)	1700	100	ug/L	ND	83.8	60-140	3.11	200	
F3 PHCs (C16-C34)	4870	100	ug/L	ND	113	60-140	4.69	200	
F4 PHCs (C34-C50)	3060	100	ug/L	ND	102	60-140	3.67	200	
Semi-Volatiles									
Acenaphthene	7.80	0.05	ug/L	ND	78.0	50-140	5.24	200	
Acenaphthylene	8.30	0.05	ug/L	ND	83.0	50-140	4.27	200	
Anthracene	9.01	0.01	ug/L	ND	90.1	50-140	7.92	200	
Benzo [a] anthracene	9.32	0.01	ug/L	ND	93.2	50-140	0.172	200	
Benzo [a] pyrene	9.93	0.01	ug/L	ND	99.3	50-140	1.30	200	
Benzo [b] fluoranthene	9.59	0.05	ug/L	ND	95.9	50-140	0.395	200	
Benzo [g,h,i] perylene	10.3	0.05	ug/L	ND	103	50-140	1.05	200	
Benzo [k] fluoranthene	10.4	0.05	ug/L	ND	104	50-140	3.11	200	
Chrysene	9.19	0.05	ug/L	ND	91.9	50-140	0.897	200	
Dibenzo [a,h] anthracene	8.84	0.05	ug/L	ND	88.4	50-140	2.71	200	
Fluoranthene	9.42	0.01	ug/L	ND	94.2	50-140	2.60	200	
Fluorene	8.80	0.05	ug/L	ND	88.0	50-140	0.273	200	
Indeno [1,2,3-cd] pyrene	10.2	0.05	ug/L	ND	102	50-140	1.72	200	
1-Methylnaphthalene	5.92	0.05	ug/L	ND	59.2	50-140	8.44	200	
2-Methylnaphthalene	5.93	0.05	ug/L	ND	59.3	50-140	6.97	200	
Naphthalene	6.24	0.05	ug/L	ND	62.4	50-140	5.94	200	
Phenanthrene	9.55	0.05	ug/L	ND	95.5	50-140	1.80	200	
Pyrene	9.87	0.01	ug/L	ND	98.7	50-140	1.28	200	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	575	25	ug/L	ND	81.3	0-200			
F2 PHCs (C10-C16)	1640	100	ug/L	ND	81.2	60-140			
F3 PHCs (C16-C34)	5110	100	ug/L	ND	118	60-140			
F4 PHCs (C34-C50)	2950	100	ug/L	ND	97.9	60-140			
Metals									
Mercury	3.08	0.1	ug/L	ND	103	70-130			
Antimony	59.2	0.5	ug/L	ND	118	70-130			
Arsenic	54.1	1.0	ug/L	ND	107	70-130			
Barium	1500	1.0	ug/L	1530	-64.6	70-130			QM-07
Beryllium	59.0	0.5	ug/L	ND	118	70-130			
Boron	213	10.0	ug/L	178	70.9	70-130			
Cadmium	54.9	0.2	ug/L	ND	110	70-130			
Chromium (VI)	185	10	ug/L	ND	92.5	70-130			
Chromium	54.4	1.0	ug/L	ND	109	70-130			
Cobalt	53.6	0.5	ug/L	ND	107	70-130			
Copper	50.6	0.5	ug/L	ND	101	70-130			
Lead	49.6	0.2	ug/L	ND	99.1	70-130			
Molybdenum	55.5	0.5	ug/L	0.8	109	70-130			
Nickel	52.3	1.0	ug/L	ND	104	70-130			
Selenium	51.9	1.0	ug/L	ND	103	70-130			
Silver	48.4	0.2	ug/L	ND	96.7	70-130			
Sodium	40700	200	ug/L	33100	76.1	70-130			
Thallium	49.6	0.5	ug/L	ND	99.1	70-130			
Uranium	52.9	0.2	ug/L	ND	106	70-130			
Vanadium	57.2	0.5	ug/L	ND	114	70-130			
Zinc	57.0	5.0	ug/L	ND	105	70-130			
Semi-Volatiles									
Acenaphthene	8.22	0.05	ug/L	ND	82.2	50-140			
Acenaphthylene	8.66	0.05	ug/L	ND	86.6	50-140			
Anthracene	8.32	0.01	ug/L	ND	83.2	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [a] anthracene	9.30	0.01	ug/L	ND	93.0	50-140			
Benzo [a] pyrene	9.80	0.01	ug/L	ND	98.0	50-140			
Benzo [b] fluoranthene	9.63	0.05	ug/L	ND	96.3	50-140			
Benzo [g,h,i] perylene	10.2	0.05	ug/L	ND	102	50-140			
Benzo [k] fluoranthene	10.1	0.05	ug/L	ND	101	50-140			
Chrysene	9.10	0.05	ug/L	ND	91.0	50-140			
Dibenzo [a,h] anthracene	8.60	0.05	ug/L	ND	86.0	50-140			
Fluoranthene	9.17	0.01	ug/L	ND	91.7	50-140			
Fluorene	8.77	0.05	ug/L	ND	87.7	50-140			
Indeno [1,2,3-cd] pyrene	10.0	0.05	ug/L	ND	100	50-140			
1-Methylnaphthalene	6.44	0.05	ug/L	ND	64.4	50-140			
2-Methylnaphthalene	6.36	0.05	ug/L	ND	63.6	50-140			
Naphthalene	6.63	0.05	ug/L	ND	66.3	50-140			
Phenanthrene	9.38	0.05	ug/L	ND	93.8	50-140			
Pyrene	9.75	0.01	ug/L	ND	97.5	50-140			
Surrogate: 2-Fluorobiphenyl	*8.92*		*%*		*88.3*	*50-140*			
Surrogate: Terphenyl-d14	*10.4*		*%*		*103*	*50-140*			
1-Methylnaphthalene	5.7	1	ug/L	ND	56.9	50-140			
1,2,4-Trichlorobenzene	5.0	0.5	ug/L	ND	50.0	50-140			
2,4-Dinitrotoluene	8.0	2	ug/L	ND	80.2	50-140			
2,6-Dinitrotoluene	8.7	2	ug/L	ND	87.0	50-140			
2-Methylnaphthalene	5.6	1	ug/L	ND	56.0	50-140			
3,3´-Dichlorobenzidine	8.0	0.5	ug/L	ND	78.3	30-130			
Acenaphthene	6.4	1	ug/L	ND	64.1	50-140			
Anthracene	6.8	0.1	ug/L	ND	67.8	50-140			
Acenaphthylene	7.3	1	ug/L	ND	73.4	50-140			
Benzo [a] anthracene	7.9	0.2	ug/L	ND	79.2	50-140			
Benzo [a] pyrene	8.9	0.01	ug/L	ND	89.3	50-140			
Benzo [g,h,i] perylene	9.2	0.2	ug/L	ND	91.5	50-140			
Benzo [b] fluoranthene	8.3	0.1	ug/L	ND	83.0	50-140			
Benzo [k] fluoranthene	9.1	0.1	ug/L	ND	91.0	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bis(2-chloroethyl)ether	8.2	5	ug/L	ND	82.1	50-140			
Bis(2-chloroisopropyl)ether	8.9	4	ug/L	ND	89.0	50-140			
Chrysene	8.1	0.1	ug/L	ND	80.8	50-140			
Dibenzo [a,h] anthracene	8.0	0.2	ug/L	ND	79.9	50-140			
Diethylphthalate	7.4	2	ug/L	ND	73.9	50-140			
Dimethylphthalate	7.4	2	ug/L	ND	74.5	50-140			
Fluoranthene	7.5	0.4	ug/L	ND	74.8	50-140			
Fluorene	6.7	0.5	ug/L	ND	67.2	50-140			
Indeno [1,2,3-cd] pyrene	9.1	0.2	ug/L	ND	91.5	50-140			
Naphthalene	6.8	2	ug/L	ND	67.7	50-140			
Phenanthrene	7.5	0.1	ug/L	ND	74.9	50-140			
Pyrene	7.5	0.2	ug/L	ND	75.0	50-140			
2,4,5-Trichlorophenol	7.9	0.2	ug/L	ND	79.1	50-140			
2,4,6-Trichlorophenol	7.3	0.2	ug/L	ND	73.3	50-140			
2,4-Dinitrophenol	87.4	10	ug/L	ND	54.6	30-130			
2-Chlorophenol	6.7	2	ug/L	ND	66.9	50-140			
Pentachlorophenol	6.8	0.5	ug/L	ND	68.5	50-140			
Phenol	3.0	1	ug/L	ND	29.9	30-130			QS-02
Surrogate: 2-Fluorobiphenyl	*8.58*		*%*		*85.0*	*50-140*			
Surrogate: Nitrobenzene-d5	*9.65*		*%*		*96.5*	*40-140*			
Surrogate: Terphenyl-d14	*10.1*		*%*		*99.8*	*50-140*			
Surrogate: 2,4,6-Tribromophenol	*8.56*		*%*		*84.8*	*40-140*			
Surrogate: 2-Fluorophenol	*3.79*		*%*		*37.5*	*40-140*			*S-GC*
Surrogate: Phenol-d6	*2.50*		*%*		*24.7*	*40-140*			*S-GC*
Volatiles									
Acetone	102	5.0	ug/L	ND	102	50-140			
Benzene	39.8	0.5	ug/L	ND	99.1	50-140			
Bromodichloromethane	34.7	0.5	ug/L	ND	86.3	50-140			
Bromoform	35.6	0.5	ug/L	ND	88.9	50-140			
Bromomethane	47.6	0.5	ug/L	ND	117	50-140			
Carbon Tetrachloride	34.1	0.2	ug/L	ND	84.9	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chlorobenzene	37.0	0.5	ug/L	ND	92.1	50-140			
Chloroform	42.4	0.5	ug/L	0.87	104	50-140			
Dibromochloromethane	35.9	0.5	ug/L	ND	89.4	50-140			
Dichlorodifluoromethane	48.0	1.0	ug/L	ND	119	50-140			
1,2-Dichlorobenzene	34.3	0.5	ug/L	ND	85.4	50-140			
1,3-Dichlorobenzene	34.1	0.5	ug/L	ND	85.3	50-140			
1,4-Dichlorobenzene	33.2	0.5	ug/L	ND	82.7	50-140			
1,1-Dichloroethane	40.6	0.5	ug/L	ND	101	50-140			
1,2-Dichloroethane	47.7	0.5	ug/L	ND	119	50-140			
1,1-Dichloroethylene	37.6	0.5	ug/L	ND	93.5	50-140			
cis-1,2-Dichloroethylene	39.8	0.5	ug/L	ND	99.5	50-140			
trans-1,2-Dichloroethylene	34.7	0.5	ug/L	ND	86.8	50-140			
1,2-Dichloropropane	43.3	0.5	ug/L	ND	108	50-140			
cis-1,3-Dichloropropylene	34.7	0.5	ug/L	ND	86.4	50-140			
trans-1,3-Dichloropropylene	35.6	0.5	ug/L	ND	88.9	50-140			
Ethylbenzene	37.6	0.5	ug/L	ND	93.9	50-140			
Ethylene dibromide (dibromoethane, 1,2-)	39.9	0.2	ug/L	ND	99.8	50-140			
Hexane	39.5	1.0	ug/L	ND	98.7	50-140			
Methyl Ethyl Ketone (2-Butanone)	109	5.0	ug/L	ND	109	50-140			
Methyl Isobutyl Ketone	139	5.0	ug/L	ND	139	50-140			
Methyl tert-butyl ether	93.0	2.0	ug/L	ND	92.6	50-140			
Methylene Chloride	42.3	5.0	ug/L	ND	106	50-140			
Styrene	38.1	0.5	ug/L	ND	95.3	50-140			
1,1,1,2-Tetrachloroethane	31.8	0.5	ug/L	ND	79.4	50-140			
1,1,2,2-Tetrachloroethane	44.9	0.5	ug/L	ND	112	50-140			
Tetrachloroethylene	32.1	0.5	ug/L	ND	79.9	50-140			
Toluene	36.6	0.5	ug/L	ND	90.9	50-140			
1,1,1-Trichloroethane	34.1	0.5	ug/L	ND	85.3	50-140			
1,1,2-Trichloroethane	37.8	0.5	ug/L	ND	94.4	50-140			
Trichloroethylene	34.0	0.5	ug/L	ND	84.9	50-140			
Trichlorofluoromethane	38.8	1.0	ug/L	ND	96.6	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	43.8	0.5	ug/L	ND	109	50-140			
m,p-Xylenes	77.8	0.5	ug/L	ND	96.7	50-140			
o-Xylene	38.0	0.5	ug/L	ND	94.1	50-140			
Surrogate: 4-Bromofluorobenzene	*74.6*		*%*		*92.9*	*50-140*			
Surrogate: Dibromofluoromethane	*85.5*		*%*		*107*	*50-140*			
Surrogate: Toluene-d8	*79.7*		*%*		*99.2*	*50-140*			

Qualifier Notes:

Sample Qualifiers :

3: Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
Applies to Samples: MW10, DUP3

QC Qualifiers:

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.
QS-02	Spike level outside of control limits. Analysis batch accepted based on other QC included in the batch.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Sample Data Revisions:

None

Certificate of Analysis

Report Date: 24-Jun-2025

Client: **Soil & Materials Engineering Inc.**

Order Date: 18-Jun-2025

Client PO:

Project Description: 24E099

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Benzo[b]fluoranthene results may be biased high due to co-elution with Benzo[j]fluoranthene

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARACEL LABORATORIES LTD

Paracel ID: 2525273

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2525273	№ 77251

Client Name: SME	Project Ref: 24E099
Contact Name: Tiffany Hooley	Quote #:
Address: 2000 Legacy Park Dr, Windsor, ON	PO #:
Telephone: 519-966-8863	E-mail: THooley@ctsoil.com, TPage@ctsoil.com

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Turnaround Time

☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular

Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☒ Med/Fine
☐ Table 2 ☒ Res/Park ☐ Coarse
☒ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☒ Yes ☐ No

Other Regulation

☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun:
☐ Other:

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken Date	Sample Taken Time	Required Analysis: Metals (Full)	pH	PHCs	VOCs	PAH	SVOCs
1	MW10	GW		8		06118125	9:00	X	X	X	X		X
2	MW9	↓		8		↓	11:00	X	X	X	X	X	
3	DUP 3			2			6:00		X				X
4	DUP 2	↓		3		↓	7:00			X	X		
5													
6													
7													
8													
9													
10													

Comments:

Method of Delivery: Walk in

Relinquished By (Sign): Flood	Received at Depot: K. Jakobsen	Received at Lab: Kim	Verified By: K. Jakobsen
Relinquished By (Print): Tanner Page	Date/Time: June 18/25 12:15	Date/Time: 6/19/25 1028	Date/Time: June 18/25 14:00
Date/Time: 06/18/25	Temperature: 22.3 °C	Temperature: 4.9 °C	pH Verified: ☑ By: K. Jakobsen

GENERAL LIMITATIONS

SOIL & MATERIALS ENGINEERING INC.

- The environmental investigation was carried out to address the intent of applicable provincial Regulations, Guidelines, Policies, Standards, Protocols and Objectives administered by the Ministry of Environment and Climate Change. It should also be noted that current environmental Regulations, Guidelines, Policies, Standards, Protocols and Objectives are subject to change, and such changes, when put into effect, could alter the conclusions and recommendations noted throughout this report.
- The conclusions and recommendations detailed in this report are based upon the information available at the time of preparation of the report. No investigative method eliminates the possibility of obtaining imprecise or incomplete information. Professional judgement was exercised in gathering and analyzing the information obtained and in the formulation of our conclusions and recommendations.
- The scope of work completed as part of this Phase II ESA, is not sufficient to meet the requirements for the submission of an RSC in accordance with Ontario Regulation 153/04 (as amended).
- Soil & Materials Engineering Inc. has prepared this report using information understood to be factual and correct, we assume no responsibility for conditions arising from information or facts which were concealed or not fully disclosed to Soil & Materials Engineering Inc.
- The conclusions and recommendations presented in this report reflect Site conditions existing at the time of the investigation. Our conclusions cannot and are not extended to include those portions of the site which were not investigated.
- Our undertaking at SME is to perform our work within limits prescribed by our clients, with meticulousness and competence of the engineering profession. It is intended that the outcome of this investigation assist in reducing the client's risk associated with environmental damages.
- Professional judgment was applied in gathering and analyzing the information obtained and in the formulation of the conclusions. Like all professional persons rendering guidance Soil & Materials Engineering Inc., does not act as absolute insurers of the conclusions we reach, but we commit ourselves to care and competence in reaching those conclusions.
- Provided that the report is still reliable, and less than 12 months old, SME will issue a third-party reliance letter to parties' the client identifies in writing, upon payment of the then current fee for such letters.

APPENDIX D

General Limitations

APPENDIX F

Qualifications of Assessors

QUALIFICATIONS OF ASSESSORS

SOIL & MATERIALS ENGINEERING INC.

TIFFANY HOOLEY, B.Sc. (Env.)

Tiffany graduated with Honors from the University of Windsor with a Bachelor of Science specializing in Environmental Science (2020) and is the lead environmental scientist for Soil & Materials Engineering Inc. She manages projects for CSA Phase I/ II Environmental Site Assessments (ESAs), Ontario Regulation 153/04 Record of Site Conditions (RSCs), remediations, and Ontario Regulation 406/19 On-site and Excess Soil Management. Her current responsibilities encompass client relations, proposal development, project management, field work, and training.

BAILEY PURCKA, B.A.Sc

Bailey is the V.P. of Operations, overseeing the operations of the company. She manages all departments including Environmental, Geotechnical, and Materials Testing and is responsible for our internal quality control process. Bailey has been reviewing various technical reports since 2019.

TOM O'DWYER, P.Eng., P.E

The report was reviewed by Tom, P.Eng., P.E., and Designated Consulting Engineer. Tom is a consulting engineer for Soil & Materials Engineering Inc. with over 40 years of experience in geotechnical engineering, construction materials testing and inspection, and environmental services. Tom is a Qualified Person and practicing professional engineer in Ontario, Michigan and Ohio.