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Phase Two Environmental Site Assessment

1309 Carling Avenue, Ottawa, Ontario

Prepared for

RioCan Holdings Inc.
Yonge Eglinton Centre
2300 Yonge St, Suite 2200
Box 2386 | Toronto, ON M4P 1E4

Prepared by

Geosyntec Consultants International Inc.
1545 Carling Ave. Suite 701
Ottawa, ON K1Z 8P9

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EXECUTIVE SUMMARY

Geosyntec Consultants International, Inc. (Geosyntec) was retained by RioCan Management Inc., an agent of RioCan Holdings Inc. (RioCan), to prepare a Phase Two Environmental Site Assessment (ESA) for the property located at 1309 Carling Avenue in Ottawa, Ontario (hereinafter referred to as the "Phase One Property", "Phase Two Property", or the "Site"). Geosyntec's assignment was conducted in accordance with the scope of work outlined in Geosyntec's proposal to RioCan dated 21 February 2025, as well as with the terms and conditions described in the RioCan Management Inc, an agent of RioCan Holdings Inc., and Geosyntec Consultants International, Inc. Consulting Services Agreement dated 26 August 2024.

Geosyntec understands that RioCan intends to demolish the existing mall to the north of the existing Shoppers Drug Mart and redevelop the Phase Two Property for commercial use. It is Geosyntec's understanding that this Phase Two ESA, prepared in accordance with Ontario Regulation (O. Reg.) 153/04, as amended, is required to be submitted to the City of Ottawa (City) in support of the Site Plan Approval (SPA). As there is no proposed change to a more sensitive land use, in accordance with the Ontario *Environmental Protection Act* (EPA) and O. Reg. 153/04, a Record of Site Condition (RSC) is not required.

The Phase Two Property has an area of approximately 2.87 hectares (7.09 acres) in size. At the time of reporting, the Phase Two Property was comprised of the Westgate Shopping Centre and associated parking spaces surrounding the multi-tenant commercial mall. The Site may be accessed from Carling Avenue to the south and Merivale Road to the east. There are no on-Site surface water bodies. Surface water drainage from the building and parking areas are directed to the municipal stormwater sewer system.

The Phase Two Property is located in an area that is developed with a mix of commercial uses. The Phase Two Property is bounded by a hydro easement to the north and Highway 417; a residential and commercial tower to the east and a power substation across Merivale Road; Carling Avenue and commercial properties to the south; and a commercial tower to the west.

The results of a Phase One ESA conducted by Geosyntec in 2025 identified current and historical potentially contaminating activities (PCAs) at the Site and surrounding lands within the Phase One Study Area. As a result of the PCAs, Geosyntec identified multiple areas of potential environmental concern (APECs) and related contaminants of potential concerns (COPCs) in soil and groundwater.

Based on the findings presented in the Phase One ESA, Geosyntec prepared a Phase Two Sampling and Analysis Plan (SAP) for the Site. The Phase Two SAP considered prior soil and groundwater investigation data collected from the Site and included a data gap analysis of available data relative to the identified APECs on the Site. Geosyntec conducted the Phase Two ESA soil and groundwater investigation between 11 March and 4 April 2025 that included: the advancement of 11 boreholes with seven completed as groundwater monitoring wells; development of seven newly installed and 11 existing monitoring wells; groundwater level monitoring of 21 monitoring

wells; field screening; and the collection of soil and groundwater samples for laboratory analyses of applicable COPCs. The applicable generic Site Condition Standards (SCS) for the Site are the '*Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition*' for Industrial/Commercial/ Community property uses and coarse-textured soils (Table 3 SCS).

Soil

The Phase Two ESA investigation did not identify any COCs greater than the Table 3 SCS in soil.

Groundwater

The Phase Two ESA investigation identified cis-1,2-dichloroethylene (cis-1,2-DCE) and tetrachloroethylene (PCE) at concentrations greater than the Table 3 SCS at the exterior southwest portion of the Site, within the vicinity of the former on-Site dry-cleaning facility. Additionally, trichloroethylene (TCE) and vinyl chloride (VC) concentrations greater than the Table 3 SCS were also identified in past investigations in the vicinity of the former on-Site dry-cleaning facility. Several additional groundwater samples were collected in these areas with concentrations less than the Table 3 SCS such that the extent of the VOC impacts have been horizontally and vertically delineated.

The Phase Two ESA investigation identified a petroleum hydrocarbon fraction 2 (PHC F2) concentration greater than the Table 3 SCS (noted to have exceeded Table 3 SCS for PHC F2 in past investigations as well) at the exterior northeast portion of the Site, within the vicinity of the former hydrocarbon storage. Two additional groundwater samples were collected in these areas with concentrations less than the Table 3 SCS such that the extent of the PHC impacts have been horizontally and vertically delineated.

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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
µm	micron
AGAT	AGAT Laboratories
m amsl	metre above mean sea level
ANSI	area of natural and scientific interest
AOV	Annis O'Sullivan Vollebekk Ltd.
APECs	areas of potential environmental concern
As	arsenic
AST	above ground storage tanks
ASTM	American Society for Testing and Materials
B-HWS	hot water-soluble boron
BTEX	benzene, toluene, ethylbenzene, and xylenes
CALA	Canadian Association for Laboratory Accreditation Inc.
CFCs	chlorofluorocarbons
Cis-1,2-DCE	cis-1,2-dichloroethylene
Cl^-	chloride
CN^-	cyanide
COPCs	contaminants of potential concern
Cr(VI	hexavalent chromium
CSM	Conceptual Site Model
cVOCs	chlorinated volatile organic compounds
DO	dissolved oxygen
DPT	direct push technology
DQOs	data quality objectives
EC	electrical conductivity
EPA	Environmental Protection Act
ERIS	Environmental Risk Information Services
ESA	Environmental Site Assessment

ACRONYMS AND ABBREVIATIONS (CONT'D)

Geosyntec	Geosyntec Consultants International, Inc.
Golder	Golder Associates Ltd.
HDPE	high-density polyethylene
Hg	mercury
Km	kilometer
L	liter
M bgs	metres below ground surface
M bTOC	meters below Top of Casing
M	meter
MECP	Ministry of Environment, Conservation and Parks
Mg/L	milligrams per litre
MGRA	Modified Generic Risk Assessment
Mm	millimeter
mS/cm	millisiemens per centimeter
NAPL	non-aqueous phase liquid
NTU	Nephelometric Turbidity Units
O. Reg.	Ontario Regulation
OBM	*Ontario Base Map*
OGS	OGS Inc
ORP	oxygen reduction potential
OVM	organic vapour meter
PAHs	polycyclic aromatic hydrocarbons
PCAs	potentially contaminating activities
PCBs	polychlorinated biphenyls
PCE	tetrachloroethylene
PHC F2	petroleum hydrocarbon fraction 2
PHCs	petroleum hydrocarbons
PID	photoionization detector
PIN	Property Identification Number

ACRONYMS AND ABBREVIATIONS(CONT'D)

Pinchin	Pinchin Group
PPMv	parts per million by volume
PVC	polyvinyl chloride
QA/QC	quality assurance and quality control
RioCan	RioCan Management Inc., an agent of RioCan Holdings Inc.
RLs	reporting limits
RPD	relative percent difference
RSC	Record of Site Condition
SAP	Sampling and Analysis Plan
SAR	sodium adsorption ratio
Sb	antimony
SCS	Site Condition Standards
Se	selenium
SOPs	standard operating procedures
SPA	Site Plan Approval
Subject Site	1285 Carling Avenue
TCE	trichloroethylene
Trow	Trow Consulting Engineers Ltd
Ug/L	micrograms per liter
UST	underground storage tanks
VC	vinyl chloride
VOCs	volatile organic compounds
WWIS	Water Well Information System
µg/g	micrograms per gram

1. INTRODUCTION

This Phase Two Environmental Site Assessment (ESA) report is structured to meet the requirements of Table 1, Schedule E of Ontario Regulation (O. Reg.) 153/04, as amended, as follows:

- Section 2 – Introduction, including Site description, Phase Two Property ownership, current and proposed future Phase Two Property uses, and applicable Site Condition Standards (SCS);
- Section 3 – Background Information, including physical setting and summary of past investigations;
- Section 4 – Scope of the Investigation, including an overview of the investigation, media investigated, Phase One Conceptual Site Model (CSM), deviations from the Phase Two Sampling and Analysis Plan (SAP), and impediments;
- Section 5 – Investigation Methods, including a description of drilling and excavating, soil sampling, field screening measurements, groundwater monitoring well installation details, field measurements of groundwater quality parameters, groundwater sampling, analytical testing, residue management procedures, and quality assurance and quality control (QA/QC) measures, as applicable;
- Section 6 – Review and Evaluation, including description of the geology, groundwater elevations and flow direction, groundwater hydraulic gradients, soil texture, soil field screening and quality results, groundwater quality results, QA/QC results, and the Phase Two CSM;
- Section 7 – Qualifications and Limitations;
- Section 8 – Conclusions, including a summary of results;
- Section 9 – Signatures; and,
- Section 10 – References included throughout this report.

The tables, figures, and appendices that document the results of the Phase Two ESA investigation follow the text. The tables show the monitoring well construction details (**Table 1)**, groundwater elevations (**Table 2**), soil and groundwater sampling summaries (**Table 3**), soil and groundwater maximum concentration summaries (**Table 4**), soil and groundwater sample analysis dates (**Table 5**) and soil and groundwater analytical results (**Table 6**). The figures show the Phase Two Property location (**Figure 1**), the Phase Two Property Layout (**Figure 2)**, the Phase One Study Area (**Figure 3**), potentially contaminating activities (PCAs) (**Figure 4**), areas of potential environmental concern (APECs) (**Figure 5)**, soil and groundwater sampling locations (**Figure 6**), groundwater elevations, contours, and inferred groundwater flow direction (**Figure 7**), soil exceedance figures (**Figure 8** and **Figure 9**), groundwater exceedance figures (**Figure 10** to **Figure 12**), cross section location plan (**Figure 13**), cross sections showing soil and groundwater

exceedances (**Figure 14** to **Figure 18**), and human and ecological exposure pathways **(Figure 19** and **Figure 20**). The appendices provide copies of the Phase Two SAP (**Appendix A)**, borehole logs (**Appendix B)**, analytical laboratory reports (**Appendix C)**, and the legal survey of the Site (**Appendix D**).

Geosyntec Consultants International, Inc. (Geosyntec) was retained by RioCan Management Inc., an agent of RioCan Holdings Inc., (RioCan) to conduct a Phase Two ESA for the property located at 1309 Carling Avenue in Ottawa, Ontario (referred to as the "Phase One Property", "Phase Two Property", or the "Site"). A Phase Two Property Location Map is presented in **Figure 1**.

Geosyntec's assignment was conducted in general accordance with the scope of work outlined in Geosyntec's proposal to RioCan dated 21 February 2025, as well as with the terms and conditions described in the RioCan Management Inc., an agent of RioCan Holdings Inc., and Geosyntec Consultants International, Inc. Consulting Services Agreement dated 26 August 2024. The findings and conclusions presented in this Phase Two ESA are the result of professional interpretation of the information collected at the time of this study.

This Phase Two ESA report has been prepared solely for the benefit of Geosyntec's Client, RioCan and its subsidiaries and affiliated entities. Geosyntec has issued the Phase Two ESA report to RioCan, and grants the right to RioCan Management Inc., an agent of RioCan Holdings Inc., and its subsidiaries and affiliated entities to rely on the report contents. Except as specifically set forth in Geosyntec's proposal to Client to perform this work, no other party shall have the right to rely on Geosyntec's opinions rendered in connection with the Services without Geosyntec's written consent which may be conditioned on the third party's agreement to be bound to acceptable conditions and limitations similar to this Agreement. Please note that Geosyntec's consent to provide a righttorely on this report is subject to Client's approval and to agreement to Geosyntec's terms and conditions associated with Geosyntec's performance of this specific scope of work.

1.1 Phase Two Property Description

The Phase Two Property has an area of approximately 2.87 hectares (7.09 acres). At the time of reporting, the Phase Two Property was comprised of the Westgate Shopping Centre and associated parking spaces surrounding the multi-tenant commercial mall. The Site may be accessed from Carling Avenue to the south and Merivale Road to the east. There are no on-Site surface water bodies. Surface water drainage from the building and parking areas are directed to the municipal stormwater sewer system. A Phase Two Property Layout Plan is presented in **Figure 2.**

The Phase Two Property is located in an area developed with a mix of commercial and residential uses. The Phase Two Property is bounded by a hydro easement to the north and Highway 417, a residential and commercial tower to the east, a substation across Merivale Road, Carling Avenue and commercial properties to the south, and a commercial tower to the west. The Phase One Study Area is presented on **Figure 3**.

1.2 Ownership Information

RioCan is the owner of the Phase Two Property, which is located within the City of Ottawa (City). A Site Location Map and Site Plan are provided on **Figure 1** and **Figure 2**, respectively. A copy of a current plan of survey for the Phase Two Property, signed and sealed by a surveyor, is provided in **Appendix D**.

Phase Two Property Information	
Phase Two Property Addresses:	1309 Carling Avenue, Ottawa, Ontario K1Z 7L3 Additional Addresses: 1295, 1305, 1315, and 1325 Carling Avenue, Ottawa, Ontario
Property Identification Numbers (PINs):	04025-0172
Legal Description:	Part Of Lot 33 And Concession 1 (Ottawa Front), Nepean Part 1 Plan 5r-14579
Ownership:	RioCan Holdings Inc.
Site Contact Information:	Andrew Duncan, Chief Investment Officer (ADuncan@riocan.com)

No other parties engaged Geosyntec to prepare this Phase Two ESA.

1.3 Proposed Future Uses

Geosyntec understands that RioCan intends to demolish the existing mall to the north of the existing Shoppers Drug Mart and develop the Phase Two Property for continued commercial use. This Phase Two ESA, prepared in accordance with O. Reg. 153/04, as amended, is required to be submitted to the City to support the Site Plan Approval (SPA) application as the Phase One ESA recommended further study. As there is no proposed change to a more sensitive land use, in accordance with the Ontario *Environmental Protection Act* (EPA) and O. Reg. 153/04, a Record of Site Condition (RSC) is not required.

1.4 Applicable Site Condition Standards

The applicable SCS for the Phase Two Property are derived from the Ontario Ministry of Environment, Conservation and Parks (MECP)[1] document entitled, "*Soil, Ground Water and Sediment Standards for Use under Part XV.I of the EPA*" (Queen's Printer, 2011) (MECP Standards). The SCS are divided into a series of tables based on land use type and groundwater use, as well as presence of "sensitive" conditions.

[1] Previously the Ministry of Environment (MOE) and Ministry of Environment and Climate Change (MOECC).

Geosyntec considered the following rationale for determining the applicable generic SCS:

- The Phase Two Property is located in an area of the City that is serviced by the municipal drinking water system. Upon review of the Water Well Information System (WWIS) database, Geosyntec notes that there appears to be at least six domestic water supply wells (i.e. potable) located within the Phase One Study Area (i.e. Well ID No. 1503974, 1507809, 1507810, 1507980, 1507982, and 1510605) installed between 1949 and 1951. Given the age of installation and that the Phase One Study Area is serviced by municipal water supply, it is not expected that these water supply wells are active;
- The Phase Two Property is not considered environmentally sensitive, as defined by Section 41 of O. Reg. 153/04, as amended. Based on the results of the Phase One ESA, the Site is not located within an area of natural significance, nor does it include or is it adjacent to, or within, 30 m of such an area, as defined in Section 41(1)(a) of O. Reg. 153/04, as amended;
- No soil samples collected from the Site in past investigations have been submitted for pH analyses; however, soil samples were collected from the property adjacent to the Phase Two Property, now identified as 1285 Carling Avenue, in 2019 (Golder, 2020b). The results of pH analyses for submitted soil samples conducted on the property adjacent to the Phase Two Property by others in 2019 were within the range for non-environmentally sensitive sites. The following table describes the soil pH data collected from adjacent the property:

Soil Designation	pH Value	Sample Depth (m bgs)	Sample Location	Report Reference
Surface (< 1.5 m bgs)	7.62	0.76 – 1.37	BH19-04 SA1	Golder, 2020b
Surface (< 1.5 m bgs)	8.00	0.76 – 1.37	BH19-10D Sa2	Golder, 2020b
Subsurface (> 1.5 m bgs)	7.99	5.33 – 5.94	BH19-10D Sa8	Golder, 2020b
Surface (< 1.5 m bgs)	7.56 7.57	0.76 – 1.37	BH19-11D Sa2 Dup-1	Golder, 2020b
Subsurface (> 1.5 m bgs)	7.88	6.10 – 6.71	BH19-11D Sa7	Golder, 2020b
Surface (< 1.5 m bgs)	7.92	0 – 0.61	BH19-12 Sa1	Golder, 2020b
Subsurface (> 1.5 m bgs)	7.66	2.29 – 2.90	BH19-12B Sa4	Golder, 2020b

Notes:
< – less than
> – greater than
m bgs – metres below ground surface

- The Phase Two Property is not considered a shallow soil property in accordance with Section 43.1(1)(a) of O. Reg. 153/04, as amended. Based on the results of drilling activities conducted at the Site to date, greater than 2 metres (m) of overburden soil exists across more than two-thirds of the Site;
- The Phase Two Property is not considered a property located within 30 m of a water body per Section 43.1(1)(b) of O. Reg. 153/04, as amended. There are no surface water bodies present at the Site or within 30 m of the Site. The nearest body of water relative to the Phase Two Property is the Ottawa River, located approximately 2.2 kilometres (km) northwest and north of the Site;
- Section 6.4 of this report discusses the complex geology at the Site. The Site has coarse grained fill overlaying fine grained silty clay, which subsequently overlies a coarse grained glacial till as confirmed by grain size analysis. In order to be conservative, the bulk behaviour of the Site is likely consistent with a coarse-grained material; and,
- The planned future use of the Phase Two Property is for commercial land use. The proposed finished grading of the Site is anticipated to be similar to the existing grade.

Based on the available Site-specific information as described above, the applicable SCS for the Phase Two Property, as defined in the MECP Standards, are the '*Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition'* for Industrial/Commercial/Community property uses and coarse-textured soils (the "Table 3 SCS"). As such, analytical results obtained as part of this Phase Two ESA were compared to Table 3 SCS.

2. BACKGROUND INFORMATION

The following sections provide general background information relevant to the Phase Two Property.

2.1 Physical Setting

2.1.1 Water Bodies

The Phase Two Property does not include a water body. The nearest body of water relative to the Site is the Ottawa River, located approximately 2.2 km northwest and north of the Site. The Ottawa River flows in an easterly direction.

2.1.2 Areas of Natural Significance

The Phase Two Property is not located within an area of natural and scientific interest (ANSI), nor does it include or is it adjacent to or is within 30 m of an ANSI, as defined in Section 41(1)(a) of O. Reg. 153/04, as amended. No ANSIs were identified within the Phase One Study Area as reported in the Phase One ESA (Geosyntec, 2025a).

2.1.3 Topography and Surface Water Drainage

Based on a review of the Environmental Risk Information Services (ERIS) *'Ontario Base Map (OBM)'* map and satellite imagery available for viewing on Google Earth™, the Phase Two Property is at an elevation of approximately 75 m above mean sea level (amsl). Regional topography slopes gently downward to the north towards the Ottawa River. Surface water drainage from the Phase Two Property is directed to the municipal stormwater sewer system.

2.1.4 Municipal Drinking Water

The Phase Two Property is located in an area of the City of Ottawa that is serviced by the municipal drinking water system. Upon review of the WWIS database, Geosyntec notes that there appear to be at least six domestic water supply wells (i.e. potable) located within the Phase One Study Area (i.e. Well ID No. 1503974, 1507809, 1507810, 1507980, 1507982, and 1510605) installed between 1949 and 1951. Given the age of installation and that the Phase One Study Area is serviced by a municipal water supply, it is not expected that these water supply wells are active.

2.2 Past Investigations

2.2.1 Summary of Past Investigations

Copies of the following environmental investigation reports were provided to Geosyntec by RioCan:

- 'Phase I – Environmental Site Assessment, Westgate Shopping Centre, 1309 Carling Avenue, Ottawa, Ontario', prepared by Trow Consulting Engineers Ltd. (Trow), dated January 19, 1994 (the "1994 Phase One ESA").
- 'Branch Environmental Audit, TD Canada Trust Transit 0164, 1309 Carling Avenue, Ottawa, Ontario', prepared by Pinchin Group (Pinchin), dated June 2, 2006 (the "2006 TD Environmental Audit').
- 'Phase One Environmental Site Assessment, Westgate Shopping Centre', prepared by Golder Associates Ltd. (Golder), dated December 2015 (the "2015 Phase One ESA").
- 'Phase Two Environmental Site Assessment, Westgate Shopping Centre, Ottawa, Ontario' prepared by Golder, dated December 2015 (the "2015 Phase Two ESA").
- Draft 'Phase Two Environmental Site Assessment, Westgate Shopping Centre, Ottawa, Ontario' prepared by Golder, dated March 2017 (the "2017 Phase Two ESA").
- 'Phase Two Environmental Site Assessment, Part of 1309 Carling Avenue, Ottawa, Ontario' prepared by Golder, dated August 2018 (the "2018 Phase Two ESA").
- 'Geotechnical Investigation, Proposed Site Redevelopment, Westgate Mall Phase 1, Ottawa, Ontario', prepared by Golder, dated November 2018 (the "2018 Geotechnical Investigation").
- 'Phase Two Environmental Site Assessment Conceptual Site Model (CSM), Part of 1309 Carling Avenue, Ottawa, ON' prepared by Golder, dated February 2019 (the "February 2019 CSM").
- 'Modified Generic Risk Assessment for Part of 1309 Carling Avenue, Ottawa' prepared by Golder, dated August 12, 2019 (the "2019 MGRA").
- 'Phase Two Environmental Site Assessment Conceptual Site Model, Part of 1309 Carling Avenue, Ottawa, ON' prepared by Golder, dated December 2019 (the "December 2019 CSM").
- 'Phase One Environmental Site Assessment Update, Part of 1309 Carling Avenue, Ottawa, Ontario' prepared by Golder, dated June 19, 2020 (the "2020 Phase One ESA Update").
- 'Phase Two Environmental Site Assessment, Part of 1309 Carling Avenue, Ottawa, ON' prepared by Golder, dated June 2020 (the "2020 Phase Two ESA").

A discussion of pertinent information from the reports is provided below.

1994 Phase One ESA

Trow completed a Phase One ESA at a larger property comprising the Phase One Property and the adjoining address of 1285 Carling Avenue ("Subject Site") to the east in January 1994. At the time, two buildings were present on the Subject Site: a restaurant located at the Subject Site and the Westgate Shopping Centre at the Phase One Property (1309 Carling Ave). Trow indicated that a petroleum company occupied the east section of the Subject Site (including the current Phase One Property) between 1949 and 1953 (inferred to be the Sun Oil Company, consistent with fire insurance plans [FIPs]). Trow indicated that the presence of associated above ground storage tanks/ underground storage tanks (ASTs/USTs) on the Subject Site was unknown but assumed that the tanks would have been removed during the development of the Westgate Mall.

The potential for underground fuel oil USTs associated with the former boilers at the Westgate Shopping Centre was also identified. The potential for asbestos, chlorofluorocarbons (CFCs), and polychlorinated biphenyls (PCBs) was identified by Trow within the buildings based on age of construction.

The Phase One ESA also indicated that a petroleum company was located to the west of the Phase One Property at 1335 Carling Ave between 1952 to 1980, however Trow assumed all tanks were removed during the construction of the office building, which is currently still present.

2006 TD Environmental Audit

Pinchin completed an environmental audit of the TD Canada Trust branch located at 1309 Carling Avenue in 2006, as part of a program to audit all TD Canada Trust branches across Canada. The audit identified the presence of asbestos and PCBs at the TD branch, and indicated the potential for lead, mercury, and silica to be present within the larger building. Recommendations were provided for handling instructions of hazardous materials identified as present or possibly present by Pinchin.

2015 Phase One ESA

Golder completed a Phase One ESA at the Subject Site (Phase One Property and 1285 Carling Avenue) in 2015, in accordance with O. Reg. 153/04. The Phase One ESA was completed for RioCan Management Inc. The following APECs were identified at the Larger Property, and were considered relevant as on-Site PCAs for the present Phase One ESA:

- Reported presence of fill across the Subject Site;
- Oil and hydrocarbon product storage in ASTs and USTs on the Larger Property and at other locations up and cross gradient of the Subject Site;
- On-Site transformer rooms and off-Site hydro substation;
- Operation of dry-cleaning equipment within the shopping centre and off-Site; and,
- Former railway lines historically located near the Larger Property.

Given the presence of APECs on the Subject Site, a Phase Two ESA was recommended by Golder.

2015 Phase Two ESA

Golder completed a Phase Two ESA at the Subject Site in 2015, in accordance with O. Reg. 153/04. The 2015 Phase Two ESA was conducted to assess the APECs identified during the 2015 Phase One ESA. The 2015 Phase Two ESA included the advancement of seven boreholes; six of which were completed as groundwater monitoring wells. Soil and groundwater samples were collected from the borehole and monitoring well locations for analysis of the COPCs including, volatile organic compounds (VOCs), petroleum hydrocarbons (PHCs), polycyclic aromatic hydrocarbons (PAHs), PCBs, and metals and inorganics. These results were compared to the published Table 3: Full Depth Generic SCS in a Non-potable Ground Water Condition[2] for residential/ parkland/ institutional land use and coarse-textured soils (Table 3 SCS). The 2015 Phase Two ESA investigation identified chlorinated volatile organic compounds (cVOCs) in groundwater at concentrations greater than the respective Table 3 SCS at one location (15-03), near the former dry cleaner. Other parameters tested in soil and groundwater met the Table 3 SCS. Golder recommended that additional investigation be completed to laterally and vertically delineate the cVOC impacts identified in groundwater. The presence of cVOCs greater than relevant standards in groundwater at the Site represents an on-Site PCA.

2017 Phase Two ESA

Golder completed a second stage Phase Two ESA at the Larger Property (Phase One Property and 1285 Carling Avenue) in 2015, in accordance with O. Reg. 153/04. The 2017 Phase Two ESA was conducted to characterize the extent of cVOC impacts identified in the 2015 Phase Two ESA, as well as assess APECs that could not be investigated in 2015 due to the presence of overhead utilities and drill rig access issues. The 2017 Phase Two ESA included the advancement of nine additional boreholes; all completed as groundwater monitoring wells. The 2017 Phase Two ESA investigation identified cVOC impacts in soil and groundwater associated with former dry-cleaning operations; the impacts were not fully horizontally or vertically delineated. PHC impacts were identified in groundwater near the former heating oil UST and former boiler room in the northeast part of the Site. Golder recommended that additional investigation be completed to laterally and vertically delineate the PHC and cVOC impacts identified at the Site and complete a vapour sampling program in the basement of the Shoppers Drug Mart for due diligence.

2018 Phase Two ESA

Golder completed a Phase Two ESA at the property adjacent to the Phase One Property, now identified as 1285 Carling Avenue, in 2018, in accordance with O. Reg. 153/04. The 2018 Phase Two ESA was conducted to support the submission of an RSC for 1285 Carling Avenue and to assess the APECs identified in the 2015 Phase One ESA within the property boundaries. The 2018 Phase Two ESA included the advancement of five boreholes; four of which were

[2] Soil, ground water and sediment standards for use under Part XV.1 of the Environmental Protection Act, Ministry of the Environment, April 15, 2011.

completed as groundwater monitoring wells. Soil and groundwater samples were collected from the borehole and monitoring well locations for analysis of the COPCs including, benzene, toluene, ethylbenzene, and xylenes (BTEX), PHCs, PAHs, PCBs, and metals and inorganics. The results were compared to the Table 3 SCS. The analytical results indicated that parameters tested in soil and groundwater met the applicable Table 3 SCS. Therefore, Golder did not consider the completion of risk assessment or remediation to be required prior to the submission of an RSC.

2018 Geotechnical Investigation

Golder completed a geotechnical investigation at the property adjacent to the Phase One Property, now identified as 1285 Carling Avenue, in 2018. The investigation was completed on behalf of RioCan Holdings Inc. for the proposed Phase One redevelopment of the Westgate Mall site; the proposed development included a combined residential and commercial tower with underground parking. The geotechnical investigation included the advancement of three boreholes. Subsurface stratigraphy consisted of surficial fill materials, overlying silty clay, generally underlain by glacial till at depths of 3.7 to 4.9 metres below ground surface (m bgs). Practical refusal was encountered at 7.1 to 10.1 m bgs in the boreholes advanced, although information from previous investigations was identified by Golder to indicate that bedrock could exist at depths of up to 16.3 m bgs. Recommendations were provided by Golder to address considerations for construction of the proposed Phase One redevelopment.

February 2019 CSM

Golder completed a CSM for the property adjacent to the Phase One Property, now identified as 1285 Carling Avenue, in support of the filing of an RSC. The CSM relied on assessments completed in 2015, 2016, and 2018. No soil or groundwater samples included in the February 2019 CSM were considered to exceed the relevant standards.

2019 MGRA

Golder submitted a Modified Generic Risk Assessment (MGRA) for the property adjacent to the Phase One Property, now identified as 1285 Carling Avenue, to address exceedances of electrical conductivity (EC) and sodium adsorption ratio (SAR) in soil and chloride (Cl^-) in groundwater. The salt-related impacts in soil and groundwater were identified through additional sampling completed at 1285 Carling Avenue in 2019 and were the only exceedances of Table 3 SCS identified. The proposed pathway modifiers were a fill or hard cap for the identified soil exceedances.

December 2019 CSM

Golder completed a CSM for the property adjacent to the Phase One Property, now identified as 1285 Carling Avenue, in support of the filing of an RSC. The CSM relied on assessments completed in 2015, 2016, 2018, and 2019. Golder indicated that the use of salt on the property had previously been identified as an APEC, but that further information obtained indicates that salt had only been applied to surfaces for vehicular or pedestrian traffic safety. Golder concluded that the

SCS for EC, SAR, sodium (Na), and chloride were therefore not exceeded, and an APEC related to salt application was not included in the December 2019 CSM, as per Section 49.1 of O. Reg. 153/04. As such, no soil or groundwater samples included in the December 2019 CSM were considered to exceed the relevant standards.

2020 Phase One ESA Update

Golder completed a Phase One ESA update at the property adjacent to the Phase One Property, now identified as 1285 Carling Avenue, in accordance with O. Reg. 153/04 in 2020. The 2020 Phase One ESA update was completed for RioCan in support of the RSC application. The following APECs were identified at the property:

- Reported presence of fill across the property.
- Off-Site hydro sub-station.
- Operation of dry-cleaning equipment off-Site.

Golder noted that road salt use was expected on the property, but that it was not considered to represent a PCA leading to an APEC at the property.

2020 Phase Two ESA Update

Golder completed a Phase Two ESA at the property adjacent to the Phase One Property, now identified as 1285 Carling Avenue, in accordance with O. Reg. 153/04 in 2020 to investigate the APECs identified in the 2020 Phase One ESA Update. The 2020 Phase Two ESA update relied on investigation activities completed in 2015, 2016, 2018, and 2019. There were no exceedances of the Table 3 SCS in the soil or groundwater samples at 1285 Carling Avenue, with the exception of road salt-related impacts. These impacts were considered to relate to salt application for safety purposes and deemed by Golder to meet the applicable SCS.

2025 Phase One ESA (Geosyntec, 2025a)

Geosyntec prepared a Phase One ESA for the Phase Two Property in April 2025, which included a review of historical and regulatory documents, a Site reconnaissance, and interviews. At the time of the Phase One ESA, the Phase Two Property was occupied by Westgate Shopping Centre, a multi-tenant commercial mall with associated parking spaces.

Based on the results of the Phase One ESA, Geosyntec identified the following findings:

- The first developed used of the Phase One Property was in 1947 as an oil storage facility owned by Sun Oil Company Limited with gasoline tanks and the oil facility covering approximately 15% of the western portion of the Site. The construction of the Westgate Shopping Centre followed the use as an oil storage facility in 1955 with additions and renovations in 1964, 1978, and 1991;
- Various listings for dry-cleaning facilities were identified in the city directories and inspection reports for the Site at 1309 and 1317 Carling Avenue between 1955 and 2017.

Impacts of cVOCs have previously been identified in groundwater at the Phase Two Property through investigations completed in 2015 and 2017;

- A Hydro-Ottawa electrical vault was identified in the basement of the on-Site Shoppers Drug Mart and has been present since the construction of the mall, along with a suspected decommissioned transformer room at the west side of the mall;
- A former heating oil tank was located near the northeastern portion of the mall. PHC impacts have previously been identified in groundwater and soil at the Phase Two Property through investigations completed in 2015 and 2017;
- The 1948 FIP indicated two gasoline tanks, a building labeled 'Oil Warehouse', and underground heating oil tanks formerly located near the current boiler room near the northwestern portion of the mall;
- The 1948 and 1956 FIPs indicated USTs, ASTs, and a building labeled 'oil storage' at the property directly adjacent to the western boundary (current address of 1335 Carling Avenue). City directory listings at this address have included fuel oil stations, service stations, and car washes between 1955 and 1971; and,
- Fill material of unknown quality was expected to have been brought to the Site during construction of the Westgate Shopping Centre, as well as having been identified in borehole records for the Phase Two Property. No documentation indicating the quality of the remaining fill material was available.

2.2.2 Validation and Use of Data from Previous Investigations

Geosyntec conducted a review of the methods for soil and groundwater sample collection, analytical protocols and QA/QC procedures documented in the 2015 Phase Two ESA (Golder, 2015b) and the 2017 Phase Two ESA (Golder, 2017), as discussed in the SAP (see **Appendix A**). The soil and groundwater sampling, analytical and QA/QC protocols employed by Golder generally met the requirements of O. Reg. 153/04, as amended with the following exceptions:

- Only one duplicate sample for soil was collected for PHC parameters as part of the 2015 Phase Two ESA (total of eleven samples collected for PHC analysis). Adequate duplicate samples for remaining COPCs were collected in soil and groundwater as part of the 2015 Phase Two ESA and the 2017 Phase Two ESA.

Laboratory reports from the above noted investigations (i.e. Golder, 2015b; and Golder, 2017) were reviewed to assess laboratory QA/QC procedures. Method blanks were evaluated for detections above the reporting limit. Certified reference materials or internal reference materials were evaluated for acceptance within recovery limits. Surrogates were evaluated for recovery within acceptance limits. Where calculable, laboratory duplicates, and calibration verification standards or laboratory control samples were compared against applicable criteria or recovery limits. Laboratory data were found to be within acceptable limits.

As such, the data presented in the above noted investigations (i.e. Golder, 2015b; and Golder, 2017) is considered adequate for the purposes of meeting the data quality objectives (DQOs) of this Phase Two ESA and can be relied upon for the purposes of this Phase Two ESA.

3. SCOPE OF INVESTIGATION

The following subsections detail the investigation activities conducted as part of this Phase Two ESA.

3.1 Overview of the Site Investigation

To assess the COPC concentrations in the potentially impacted media at each of the APECs identified in the 2025 Phase One ESA (Geosyntec, 2025a), this Phase Two ESA consisted of drilling boreholes, installing monitoring wells, and sampling and analytical testing of soil and groundwater samples. Geosyntec conducted the following activities at the Phase Two Property between 11 March and 11 April 2025:

- Advanced nine exterior boreholes (25-01 to 25-03 and 25-06 to 25-11) between 11 and 21 March 2025 to a maximum depth of 19.35 m bgs. Soil samples were collected and submitted for analyses of COPCs including PHCs F1 to F4, PAHs, VOCs including BTEX, PCBs, metals (including arsenic [As], antimony [Sb], selenium [Se], hexavalent chromium [Cr(VI)], and mercury [Hg]), hot water-soluble boron (B-HWS), cyanide (CN^-), EC, and/or SAR;
- Advanced two interior boreholes (25-04 and 25-05) between 24 and 26 March 2025 to a maximum depth of 5.64 m bgs. Soil samples were collected and submitted for analyses of COPCs including PHCs F1 to F4, PAHs, VOCs including BTEX, PCBs, metals (including As, Sb, Se, Cr(VI), and Hg), B-HWS, CN^-, EC, and/or SAR;
- Installed seven monitoring wells (25-02 to 25-08) in the shallow overburden aquifer between 13 and 26 March 2025 to assess for the presence of the identified COPCs in groundwater;
- Developed the newly installed and select existing monitoring wells installed by others (15-01, 15-03, 15-03A, 15-05, 15-06, 15-12, 15-13, 15-15, 15-16, 15-17, and 15-19) between 20 March and 2 April 2025;
- Collected groundwater samples from the newly installed and existing monitoring wells between 25 March and 4 April 2025. Groundwater samples were submitted for analyses of COPCs including PHCs F1 to F4, PAHs, VOCs including BTEX, PCBs, metals (including As, Sb, Se, Cr [VI], Hg), Cl^-, and/or CN^-; and,
- Conducted groundwater level monitoring at the Phase Two Property on 11 April 2025 to record synoptic water level measurements.

The approximate locations of the soil investigation boreholes and groundwater monitoring wells are shown in **Figure 6**. A copy of the Phase Two SAP is provided in **Appendix A**. Consistent with the Phase Two SAP, the rationale for the selection of the proposed investigation locations is provided in the table below (see Section 4.4 for deviations from the Phase Two SAP):

Area of Potential Environmental Concern	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)	Proposed Sampling Locations (Soil)	Proposed Sampling Locations (Groundwater)
APEC #1 – Former Dry Cleaning Operations	VOCs	Soil and Groundwater	25-02 25-05 25-08	25-02 25-05 25-08 15-03* 15-06* 15-15* 15-16* 15-17*
APEC #2 – Former Hydrocarbon Storage	PHCs, PAHs, VOCs	Soil and Groundwater	25-07	25-07 15-19*
APEC #3 – Former Hydrocarbon Storage	PHCs, PAHs, VOCs	Soil and Groundwater	25-01 25-04	25-04 15-05*
APEC #4 – Electrical Vault and Former Transformer	PHCs, PAHs, VOCs, PCBs, Metals, (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater	25-03	25-03
APEC #5 – Electrical Vault and Former Transformer	PHCs, PAHs, VOCs, PCBs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater	25-06	25-06
APEC #6 – Former Gasoline Storage (1335 Carling Avenue)	PHCs, PAHs, VOCs	Soil and Groundwater	25-06	25-06 25-01* 15-03* 15-16*

Area of Potential Environmental Concern	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)	Proposed Sampling Locations (Soil)	Proposed Sampling Locations (Groundwater)
APEC #7 – Potential Presence of Fill Material	PHCs, PAHs, VOCs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil	25-01 25-02 25-03 25-06 25-07 25-08 25-09 25-10 25-11	Not required as fill material does not intersect the water table
APEC #8 – Electrical Vault and Former Transformer	PHCs, PAHs, VOCs, PCBs, Metals, (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater	25-07	25-07 15-19*

Notes:
* – Existing monitoring well installed by others
VOCs – Volatile Organic Compounds
PHCs – Petroleum Hydrocarbons Fractions F1 to F4
PAHs – Polycyclic Aromatic Hydrocarbons
As, Sb, Se – Arsenic, Antimony, and Selenium
CN^- - Cyanide
Cr (VI) – Hexavalent Chromium
PCBs – Polychlorinated Biphenyls
B-HWS – Boron (Hot Water Soluble)
Hg – Mercury
Na – Sodium
Cl^- – Chloride
EC – Electrical Conductivity
SAR – Sodium Adsorption Ratio

3.2 Media Investigated

The rationale for the media to be investigated was provided in the findings of the Phase One ESA (Geosyntec, 2025a), and the Phase Two SAP (**Appendix A**). Soil and groundwater were identified as media of concern for the APECs identified for the Phase Two Property; therefore, soil and groundwater sampling were conducted as part of this Phase Two ESA. There are no surface water bodies on the Phase Two Property; thus, sediment does not constitute a medium of concern for the Phase Two Property and was not investigated.

3.3 Phase One Conceptual Site Model

Geosyntec prepared a Phase One CSM for the Site as part of the 2025 Phase One ESA. The Phase One CSM is depicted in **Figures 1** to **5**, which illustrate the following, where applicable:

- Existing buildings and structures;
- Water bodies located in whole or in part within the Phase One Study Area;

- Areas of natural significance located in whole or in part on the Phase One Study Area (not applicable);
- Roads (including names) within the Phase One Study Area;
- Areas where a PCA has occurred, and locations of tanks in the Phase One Study Area;
- APECs;
- Drinking water wells at the Phase One Property (not applicable); and,
- Uses of properties adjacent to the Phase One Property.

3.3.1 Potentially Contaminating Activities

Seven on-Site PCAs and one off-Site PCA were identified during the Phase One ESA, which led to eight APECs on the Phase One Property:

- **PCA#37 – Operation of Dry Cleaning Equipment (on-Site).** Various listings for dry cleaners were identified in the city directories and inspection reports for the Site at 1309 and 1317 Carling Avenue between 1955 and 2017. The location of 1317 Carling Avenue is shown in the 1956 FIP. Impacts of cVOCs have previously been identified in groundwater at the Phase One Property through investigations completed in 2015 and 2017.
- **PCA#18 – Electricity Generation, Transformation and Power Stations (on-Site).** One Hydro-Ottawa electrical vault in the basement of the Shoppers Drug Mart was identified during the site walkover and has been present since the construction of the mall.
- **PCA#18 – Electricity Generation, Transformation and Power Stations (on-Site).** A transformer room at the west side of the mall.
- **PCA#28 – Gasoline and Associated Products Storage in Fixed Tanks (on-Site).** Former heating oil tank was located near the northeastern portion of the mall. PHC impacts have previously been identified in groundwater and soil at the Phase One Property through investigations completed in 2015 and 2017.
- **PCA#28 – Gasoline and Associated Products Storage in Fixed Tanks (on-Site).** The 1948 FIP showed Sun Oil Co. Ltd at the Phase One Property with two gasoline tanks and a building labeled ‘Oil Warehouse’ and underground heating oil tanks were previously located near the current boiler room near the northwestern portion of the mall.
- **PCA#28 – Gasoline and Associated Products Storage in Fixed Tanks (off-Site).** USTs, ASTs, and a building labeled ‘oil storage’ were identified at the property directly adjacent to the western boundary (current address of 1335 Carling Avenue) in the 1948 and 1956 FIPs. City directory listings at this address have included fuel oil stations, service stations, and car washes between 1955 and 1971.
- **PCA#30 – Importation of Fill Material of Unknown Quality (on-Site).** Within the 2015 Phase One ESA, Golder identified that fill material of unknown quality was expected to

have been brought to the Site during construction of the Westgate Shopping Centre, as well as having been identified in borehole records for the Phase One Property. No documentation indicating the quality of the remaining fill material was available.

- **PCA#18 – Electricity Generation, Transformation and Power Stations (on-Site).** A transformer was located in the basement underneath the northeastern portion of the mall.

The PCAs and APECs are shown on **Figure 4** and **5**, respectively.

3.3.2 Underground Utilities

Underground services on GeoOttawa indicate that:

- A sanitary sewer line constructed of 250 millimeter (mm) polyvinyl chloride (PVC) runs behind the main building near Merivale Rd and follows the building to the west and then south where it connects to a main sewer line on Carling Avenue. The invert of the sewer begins at 72.37 m amsl and falls to 70.69 m asml close to Carling Ave.
- A concrete stormwater sewer follows a similar path and varies between 375 mm and 450 mm in diameter. The inverts of the stormwater drain commence at 72.76 m asml and fall to 72.25 m asml near Carling Ave.
- A 203 mm municipal water service follows a similar path to the stormwater and sanitary sewers, however, circles the building and returns to Carling Ave near 1285 Carling Ave (residential tower).
- An additional 152 mm municipal water supply service runs from Carling Ave through the main parking lot and connects near the current restaurant.

Additionally, the Site is serviced by natural gas and underground hydro, however no plans were available for review.

3.3.3 Geological and Hydrogeological Information

A review of the ERIS *'OBM'* map, as well as satellite imagery available for viewing on Google Earth™, indicates that the Phase One Property is situated at an elevation of approximately 75 m amsl. Regional topography slopes gently downward to the north towards the Ottawa River.

According to the ERIS *'Physiography of Southern Ontario'* map, the physiography of the Phase One Study Area is derived from the Ottawa Valley clay plains. The ERIS *'Surficial Geology of Southern Ontario*' map indicates that the Phase One Study area is located in a region comprised of offshore marine deposits (clay and silt), associated with post-glacial Champlain Sea marine deposits, and alluvial deposits (silt). According to the ERIS *'Bedrock Geology of Ontario'* map, the bedrock at the Phase One Property is comprised of limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group; Simcoe Group; Shadow Lake Formation.

According to the 2017 Phase Two ESA by Golder, shallow groundwater flow is to the south and present at a depth of 1.24 to 5.34 meters below Top of Casing (m bTOC) based on elevation data collected from groundwater monitoring wells located throughout the Phase One Property.

3.3.4 Data Gaps and Uncertainty

The following data gaps were identified during preparation of the Phase One ESA:

- The ERIS report indicates that poor or inadequate address information was available for a total of 26 *'unplottable sites'* located in the vicinity of the Phase One Property; therefore, these properties could not be readily mapped by ERIS. Because the location of these records with respect to the Phase One Property could not be discerned, Geosyntec is limited in its ability to express an opinion regarding the potential for environmental impact to the Phase One Property from these properties.

3.4 Deviations from the Sampling and Analysis Plan

A copy of the Phase Two SAP is provided in **Appendix A**. The Phase Two SAP was prepared to meet the following objectives:

- To define the appropriate sampling and analysis procedures to meet the DQOs of the Phase Two ESA; and,
- To define the QA/QC procedures to ensure the representativeness of the data utilized as part of the Phase Two ESA.

Geosyntec notes the following deviations from the Phase Two SAP:

- 25-02 was installed with a 38 mm (1.5 inch) diameter PVC casing instead of a 51 mm (2 inch) diameter PVC casing due to inadequate annular space around the well in accordance with O. Reg. 903. The groundwater sample collected at this location is considered to be representative of the groundwater conditions in this area and is considered adequate for the purposes of this Phase Two ESA;
- 15-01 (historically installed by others) could not be located and therefore no groundwater samples were collected from this location. Given that no exceedances of any of the COPCs were identified at concentrations greater than the Table 3 SCS in the submitted samples from the northwest portion of the Site, the investigation completed is considered adequate for the purposes of this Phase Two ESA;
- During the 2015 Phase One ESA investigation, 15-12 (historically installed by others) could not be located (noted to be located at the northern portion of the basement below the Shoppers Drug Mart in the 2017 Phase Two ESA) and therefore was not included in the Phase Two SAP. However, 1512 was located during the Phase Two ESA field investigation and was subsequently sampled to investigate groundwater conditions within APEC #1 – Former Dry Cleaning Operations;

- Due to an insufficient volume of groundwater available at the time of the field investigation, the following samples were partially collected and submitted for their respective COPCs at the following locations:
  - 15-03: no PAH samples were collected. 15-03A (installed by others previously), located adjacent to 15-03, was sampled in addition to 15-03 and submitted for PAH analysis.
  - 15-05: no metals or inorganic parameter samples were submitted for laboratory analysis.
  - Given that no exceedances of the COPCs above were identified at concentrations greater than the Table 3 SCS in the submitted samples from their respective areas, the investigation completed is considered adequate for the purposes of this Phase Two ESA.

- During the 2017 Phase Two ESA, 15-13 was noted to be dry at the time of the investigation (Golder, 2017) and therefore was not included in the Phase Two SAP. However, a sufficient volume of groundwater was observed to be present at 15-13 during the field investigation with the water level measured. The well was however noted to be blocked, and could not be sampled.

Due to access limitations, only VOC samples from location 15-16 within the loading bay were collected and analyzed. Since Golder (2017) data showed VOC levels exceeding Table 3 SCS limits at this location and other COPC samples were taken from nearby areas, this scope of sampling at location 15-16 is deemed sufficient for the Phase Two ESA.

- Due to slow recharge rates at 15-06, 15-12, and 15-13, the wells were purged dry and samples were collected once the water levels recovered to static levels. As wells were developed prior to low flow purging and water levels fully recovered to static levels at the time of sampling, these samples are considered to be representative of groundwater conditions at these locations.

Based on a review of the sampling methods and results of the overall QA/QC program conducted as part of the investigation activities at the Phase Two Property, the DQOs are considered to be met and the data presented in this Phase Two ESA for the horizontal and vertical assessment of COPCs is considered adequate, such that it can be relied upon for the purposes of this Phase Two ESA.

3.5 Impediments

No physical impediments or denial of access prevented adequate investigation of the APECs during the completion of this Phase Two ESA, other than the refusal of rapid percussion drills at certain locations and the inaccessibility of select monitoring wells installed and drilled by others (as described above).

4. INVESTIGATION METHODS

4.1 General

Geosyntec implemented the following tasks using Geosyntec's standard operating procedures (SOPs) and referencing the Phase Two SAP (**Appendix A**) during investigations conducted at the Phase Two Property:

- The locations of buried utilities were identified prior to drilling activities. Ontario One Call was contacted to locate underground public utilities to the Site boundary. Geosyntec subcontracted a private utility locator to confirm that proposed borehole locations were clear of buried utilities;
- Drilling by a MECP licensed drilling contractor using a drill rig equipped with direct push technology (DPT) or a percussion hammer drill. DPT or split spoons were utilized to facilitate the collection of soil samples for field screening and laboratory analyses;
- Logging of geologic materials from the boreholes using visual and manual methods;
- Field screening of geologic materials using a hand-held photoionization detector (PID) to aid in selecting samples for laboratory analysis;
- Soil sampling by collecting sub-samples from the geologic cores for laboratory analysis;
- Installing and developing single monitoring wells within select boreholes to facilitate sampling of groundwater;
- Groundwater sampling using purging techniques that included field parameter measurements at existing monitoring wells;
- Measuring water levels using a water level indicator;
- Measuring for potential presence of nonaqueous phase liquid (NAPL) layers using an oil/water interface probe;
- Analytical testing by subcontracted laboratories in accordance with protocols specified by O. Reg. 153/04, as amended;
- Residue management processes for the disposal of soil cuttings and purge water; and,
- QA/QC measures that included field QC samples and data validation.

4.2 Drilling

Geosyntec retained a MECP licensed driller, OGS Inc. (OGS), to advance eleven boreholes (2501 to 2511) at the Phase Two Property between 11 and 21 March 2025. Seven of the boreholes (2502 to 2508) were completed as groundwater monitoring wells. Geosyntec was present for the duration of the drilling activities. Boreholes were advanced using a truck-mounted CME 75 HT drill rig or a portable Hilti DD250 Core drill to a maximum depth of 20.6 m bgs. Nondedicated downhole

drilling equipment was decontaminated prior to first use on-Site, as well as between drilling locations to minimize the potential for cross contamination. No petroleum-based greases or solvents were used during drilling activities.

4.3 Soil: Sampling

From each borehole location, soil samples were collected at discrete intervals using DPT or split spoon samplers advanced using a percussion hammer drill. Non-dedicated sampling equipment was decontaminated prior to initial use on-Site and between sampling locations.

The soil samples collected from the boreholes were logged for physical characteristics, as well as olfactory and visual observations of contamination. Soil samples collected during drilling were classified in the field by Geosyntec using procedures similar to those described in the American Society for Testing and Materials (ASTM) standard for the description and identification of soils (ASTM, 2000). Dedicated disposable nitrile gloves were utilized during the handling of soil samples. Soil samples were placed directly into laboratory supplied sample containers and kept on ice until the samples could be relinquished to the laboratory for analysis. Samples collected for VOCs and PHC F1 analysis were collected using Terra Core™ samplers and preserved with methanol. Geological descriptions of soil samples are provided on the borehole logs (**Appendix B**) and a summary of the geological conditions at the Phase Two Property is provided in Section 6.1.

4.4 Field Screening Measurements

--Field screening of soil samples for the presence of PHC and/or VOC derived vapours was conducted using an RKI Eagle 2 equipped with an organic vapour meter (OVM) and PID. The RKI Eagle 2 was calibrated prior to use and at a minimum of once per subsequent field day according to the manufacturer's directions. Hexane and isobutylene were used as reference gases for the OVM and PID modes, respectively. Soil was collected into new, disposable plastic Ziplock bags, the headspace could equilibrate in the bags for a minimum of five minutes, then the headspace was screened within each bag with the instrument. According to the manufacturer specifications, the precision of the instrument allows for measurement intervals of 50 parts per million by volume (ppm_v) for the OVM mode and 1 ppm_v for the PID mode.

In general, samples with the highest OVM/PID screening results, or samples that indicated visual or olfactory evidence of impact, were selected for laboratory analysis of COPCs. At borehole locations where OVM/PID readings were negligible, samples were collected from near the surface and/or at the soil-groundwater interface. The OVM/PID screening results are presented on the borehole logs in **Appendix B**.

4.5 Groundwater: Monitoring Well Installation

Monitoring wells were installed by OGS, a MECP licensed well contractor. Geosyntec was present for the duration of monitoring well installation activities. Monitoring well construction details are summarized in **Table 1** and presented on the borehole logs (**Appendix B**).

Downhole drilling equipment and non-dedicated well development equipment were decontaminated prior to first use on-Site and between drilling locations to minimize the potential for cross-contamination.

4.5.1 Installation of Monitoring Wells

Monitoring wells were installed following borehole advancement and the collection of continuous soil samples using a truck-mounted CME 75 HT drill rig or a Hilti DD250 Core drill equipped with hollow stem augers. Monitoring wells were constructed using flush-threaded, Schedule 40, clean, PVC casings with slotted well screens with a 50-mm (2-inch) diameter for exterior wells (with the exception of 25-02, see Section 4.4) and a 31-mm (1.25-inch) diameter for interior wells. Well screens were 1.5 to 3.0 m in length and were installed such that they intersected the water table. Monitoring wells were installed in accordance with O. Reg. 903. No solvents, lubricants, or adhesives were used in the well construction.

After the borehole had been advanced to the target depth, the total depth of the borehole was measured using a weighted measuring tape. The PVC casing and screen were then assembled, capped, and lowered into the open hole. The annular space between the borehole wall and the well screen was filled with silica well sand to approximately 0.3 m above the top of the screen. A bentonite seal was then installed above the sand and hydrated using potable water. Quik-Grout® was then installed above the bentonite seal to 0.3 m below surface and was topped with sand and cement to surface to minimize heaving. The monitoring well locations were completed with flush mounted protective casings.

4.5.2 Monitoring Well Development

The newly installed and available existing on-Site monitoring wells were developed prior to groundwater sample collection in order to improve the hydraulic communication between the well and the surrounding materials. Each well was developed using dedicated Waterra® tubing and a foot valve with manual purging. A Horiba water quality meter was used to record water quality parameters during development, including pH, specific conductance, dissolved oxygen (DO), oxygen reduction potential (ORP), temperature, and turbidity. Development continued until the turbidity decreased to below 100 Nephelometric Turbidity Units (NTU), three monitoring well volumes were removed, or until the well was developed dry. Development water was contained on-Site in 205L drums.

4.6 Groundwater: Field Measurement of Water Quality Parameters

Low flow purging techniques were implemented to minimize hydraulic stress in the well by maintaining low drawdown, and by using low flow pumping rates during both purging and sampling (U.S. Environmental Protection Agency [USEPA], 2017). Purging was performed using a peristaltic pump, as described below, with dedicated high-density polyethylene (HDPE) tubing. During purging, the pH, specific conductance, DO, ORP, temperature, and turbidity of the groundwater was measured using a Horiba water quality meter. Instrument calibration was

conducted daily according to the manufacturer specifications using calibration references provided by the equipment supplier. Field parameters were recorded during purging until the parameter values stabilized to within the following criteria:

- ±0.1 units for pH
- ±3% for specific conductance
- ±10 mV for ORP
- ±10% (or 3 readings <0.2 milligrams per litre [mg/L]) for DO

Groundwater samples were collected once field parameters had stabilized, consistent with the Phase Two SAP (**Appendix A**), with the exception of 15-06, 15-12, and 15-13. Due to slow recharge rates at these locations, the wells were purged dry and samples were collected once the water levels recovered to static levels. As monitoring wells were developed prior to low-flow purging and water levels fully recovered to static levels at the time of sampling, these samples are considered to be representative of groundwater conditions at these locations.

Field parameters were recorded during purging until the parameter values stabilized. The purge water was inspected for the presence of separate phase liquids (e.g., sheens). Observations on the physical appearance and odour (if apparent) of the purged water were noted in the field records.

4.7 Groundwater: Sampling

Following low-flow purging (as described above), low-flow sampling techniques were also performed using a peristaltic pump and with dedicated HDPE tubing. Samples for the analysis of VOCs and/or PHC F1 were collected by decanting through dedicated tubing directly into pre-labelled containers supplied by the laboratory (so the samples did not pass through the peristaltic pump or flow-through cell prior to collection). Samples for PAHs, PHCs F2-F4, metals and inorganics (including As, Sb, Se, Cr [VI], Hg, Na, Cl^-, CN^-), pH, and conductivity were collected by pumping groundwater directly from the dedicated tubing into lab-provided bottles using a peristaltic pump. Samples for analysis of metals were filtered using a 0.45 µm micron disposable filter, with the exception of nine groundwater samples (discussed further in Section 6.9.4).

Groundwater sample handling was conducted with dedicated and disposable nitrile gloves. Non-dedicated groundwater sampling equipment (e.g., oil-water interface probe, and water level meter) were decontaminated using a phosphate-free detergent/potable water solution and rinsed with distilled water prior to and after each groundwater sample collection.

4.8 Sediment: Sampling

No water bodies are present on the Phase Two Property and, as such, sediment is not a media of concern for the Phase Two Property. Sediment sampling was not conducted as part of the Phase Two ESA.

4.9 Analytical Testing

Soil and groundwater samples submitted for analysis were representative of the conditions encountered during the investigation activities. Soil and groundwater samples were analyzed by AGAT Laboratories (AGAT) in Ottawa, Ontario. AGAT is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) and employs in-house QA/QC programs to verify sample integrity that consist of method blank samples, matrix spike samples, spiked blank samples, surrogate analysis, laboratory duplicate samples, and QA samples. AGAT conducted the laboratory analysis following the Analytical Protocol (MOE, 2011).

Copies of the analytical laboratory reports are provided in **Appendix C**.

4.10 Residue Management Procedures

Soil cuttings and residual soils generated during the advancement of boreholes and monitoring well installation at the Phase Two Property, were containerized in 205-L drums and temporarily stored on-Site for subsequent characterization and off-Site disposal.

Purged groundwater from monitoring well development and groundwater sampling activities and wash water utilized for equipment decontamination were containerized in one additional 205-L drum and temporarily stored on-Site for future off-Site disposal.

4.11 Elevation Surveying

Geosyntec retained Annis O'Sullivan Vollebekk Ltd. (AOV), a professional land surveyor, to conduct a well elevation survey at the Phase Two Property on 11 April 2025. Easting and northings were provided in MTM Zone 9 NAD83 (Original) and geodetic elevations were provided in reference to the CGVD28 geodetic datum. A summary of the survey elevation data is presented in **Table 1**.

4.12 Quality Assurance and Quality Control Measures

4.12.1 Description of Sample Handling

Sample handling was conducted referencing the *Protocol for Analytical Methods Used in the Assessment of Properties* (MOE, 2011; Analytical Protocol) and Geosyntec's Phase Two SAP, with exceptions described in Section 4.4. Sample handling was conducted using dedicated and disposable nitrile gloves. Samples were placed directly into laboratory-supplied containers pre-charged with preservatives (where required) and expediently stored within coolers packed with ice, then transported under chain of custody to the laboratory following the sample handling and custody procedures.

Indelible ink pens were utilized to label sample containers with the following information:

- Project name

- Name or initials of individual collecting the sample
- Date and time of sample collection
- Analyses to be performed
- Preservation chemical (if used)

The following table summarizes the sample containers and preservatives utilized as part of the investigations (the details are provided on the chain of custody, which are appended to the analytical laboratory reports provided in **Appendix C**):

Parameter	Sample Matrix	Sample Container	Sample Volume	Preservative
VOCs and PHC F1	Soil	glass vials with septum lids pre-charged with 10 milliliters (mL) methanol	3 x 40 mL	Methanol
PAHs, PHCs F2-F4, PCBs, moisture, metals (including As, Sb, Se, Cr [VI], Hg), Na, B-HWS, EC, SAR, CN^-, pH	Soil	glass wide-mouth jar with Teflon™ lined lid	120 or 250 mL	None
VOCs and PHC F1	Groundwater	3 x glass vials with septum lids	2 to 3 x 40 mL – vials filled completely, no headspace or bubbles	$NaHSO_4$
PHCs F2-F4 and PAHs	Groundwater	amber glass bottle	2 x 60 mL or 2 x 100 mL	$NaHSO_4$
PCBs	Groundwater	amber glass bottle	2 x 100 mL	None
Anions	Groundwater	HDPE	Variable	None
Cyanide	Groundwater	HDPE	60 mL	NaOH
Metals	Groundwater	HDPE	60 mL	HNO_3, field-filtered
Hg	Groundwater	glass vial	40 mL	HCl
Cr (VI)	Groundwater	HDPE	60 mL	NaOH and buffer, field-filtered

Notes:
VOCs – Volatile Organic Compounds
PHCs – Petroleum Hydrocarbons Fractions F1 to F4
PAHs – Polycyclic Aromatic Hydrocarbons
As, Sb, Se – Arsenic, Antimony, and Selenium
CN^- - Cyanide
Cr (VI) – Hexavalent Chromium
PCBs – Polychlorinated Biphenyls
B-HWS – Boron (Hot Water Soluble)
Hg – Mercury
Na – Sodium
EC – Electrical Conductivity
SAR – Sodium Adsorption Ratio
HDPE – high density polyethylene
NaHSO4 – sodium bisulfate
NaOH – sodium hydroxide
HNO3 – nitric acid
HCl – hydrochloric acid

4.12.2 Sampling Equipment Cleaning Procedures

Non-dedicated and non-disposable sampling equipment was cleaned before initial use and following each use to prevent the introduction of extraneous material into samples and to prevent cross contamination between sample locations. Sampling equipment was decontaminated by washing with a non-phosphate detergent such as Alconox™ or equivalent. Equipment decontamination consisted of the following:

1. Wash with non-phosphate detergent and water solution to remove contamination from the equipment.
2. Deionized or distilled water rinse to remove residual detergent solution.

4.12.3 Field Quality Control Measures

The field quality control measures taken during the Phase Two ESA generally met the requirements documented in the Phase Two SAP, and requirements of subsection 3(3) of Schedule E in O. Reg. 153/04, as amended, and included the following:

- Non-dedicated and non-disposable sampling equipment was cleaned before initial use and following each use.
- A minimum of one field duplicate sample was submitted for every ten soil and ten groundwater samples submitted for chemical analysis per parameter group.
- One trip blank for analysis of VOC/PHC F1 accompanied each laboratory submission of groundwater VOC/PHC F1 samples.
- Field instruments were calibrated prior to use according to the manufacturer's directions. Where possible, the meters were calibrated using a minimum two-point calibration technique, in accordance with the manufacturer's instructions. Calibration checks using commercially prepared standard solutions or gases were conducted at least once per day and at the end of each sampling session. Instrument calibration information was recorded in the field documentation.

The results of the QA/QC program are also discussed in Section 6.10. Deviations from the Phase Two SAP are described in Section 4.4.

Based on a review of the sampling methods and results of the overall QA/QC program conducted as part of the investigation activities at the Phase Two Property, the DQOs are considered to be met and the data presented in this Phase Two ESA for the horizontal and vertical assessment of COPCs are considered adequate, such that it can be relied upon for the purposes of this Phase Two ESA.

5. REVIEW AND EVALUATION

5.1 Geology

The Phase Two Property is located in a region comprised of one overburden unit which consists of offshore marine deposits (clay and silt) and alluvial deposits (silt), as shown in geological records prepared by the Ontario Geological Survey. Further, a review of literature pertaining to the geology of the Ottawa region indicates that these native clay soils are associated with post-glacial Champlain Sea marine deposits. A Champlain Sea clay deposit typically includes a surficial crust (consisting of stiffer and drier clay) underlain by a weaker and more compressible clay layer (City of Ottawa, 2017). The map of the Physiography of Southern Ontario shows the Site to be located within a region of clay plains of the Ottawa Valley Clay Plains (Chapman and Putnam, 1984). The Ontario Geological Survey identifies bedrock underlying the Site as limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group, Simcoe Group, and Shadow Lake Formation.

Based on the results of field investigations conducted at the Phase Two Property, the majority of the Phase Two Property is underlain by a layer of sand and gravel fill material, followed by a layer of silty clay and silty sand, overlaying limestone which extended to the maximum investigated depth of 20.57 m bgs. The Site investigation geologic data is summarized in the following table:

Geological Unit	Approximate Maximum Thickness (m)	Approximate Depth Below Ground Surface (m bgs)	Properties
Fill	2.44	0 to 2.44 (maximum)	Fill material comprised of sand and gravel with silt present throughout the Phase Two Property. This unit is located in the unsaturated zone.
Glaciomarine clays	~8	~0.46 to 8.84 (maximum)	Native overburden material consisting of a heterogenous mixture of predominately silty clay, associated with the Champlain Sea Sediments.
Glacial Till	~7	~4 to 17.83	Silty to sandy gravel with trace clay and boulders.
Bedrock	NA	>11.3 to 17.8 at 25-08	Limestone with interbedded shale, grey

A cross-section location plan is presented on **Figure 13**. Cross-sections showing the stratigraphy of the Site are presented on **Figure 14** to **Figure 18**.

5.2 Groundwater: Elevations and Flow Direction

Eighteen of the monitoring well locations at the Phase Two Property were used to assess the groundwater elevations and flow direction including monitoring wells installed as part of this Phase Two ESA (i.e. 25-02 to 25-08) and eleven existing monitoring wells installed by others (i.e., 15-02, 15-03, 15-05, 15-06, 15-12 to 15-16, 15-18, 15-19; Golder, 2017). These wells were selected to provide adequate spatial coverage for establishing groundwater flow direction. Well depths ranged between 3.66 and 6.10 m bgs and were installed to intersect the water table.

Geosyntec measured the depth to groundwater at the Site on 11 April 2025. The measured depth to groundwater ranged from 0.314 to 6.139 m bTOC. Groundwater levels were measured with a water level tape. Water level elevations were calculated by subtracting the depth to water reading from the surveyed top of pipe elevation. A summary of the depths to groundwater measured during the monitoring event is located in the table below. Neither NAPL layers nor sheen were observed at the Site during the groundwater monitoring activities.

Monitoring Well ID[1]	Groundwater depth (m bTOC)	Stick-up Interval (m ags)	Riser Elevation (m amsl)	Groundwater Elevation (m amsl)
15-02	4.578	NA	74.065	69.487
15-03	4.762	NA	73.987	69.225
15-03A	6.132	NA	73.954	67.822
15-04	6.139	NA	73.937	67.798
15-05	5.272	NA	73.824	68.552
15-06	3.357	NA	73.91	70.553
15-12	2.283	NA	70.416	68.133
15-13	0.677	NA	74.022	73.345
15-14	3.194	NA	73.762	70.568
15-15	2.647	NA	73.867	71.220
15-16	5.279	NA	73.885	68.606
15-17	4.454	NA	73.961	69.507
15-18	1.469	NA	73.952	72.483
15-19	2.81	NA	74.311	71.501
25-02	3.601	NA	73.791	70.190
25-03	1.595	NA	73.793	72.198
25-04	0.772	NA	74.015	73.243
25-05	1.037	NA	74.01	72.973
25-06	2.726	NA	73.599	70.873
25-07	2.301	NA	74.246	71.945
25-08	0.314	NA	73.884	73.570

Notes: Surveyed by AOV on 11 April 2025; NA – Not applicable

Based on the measured groundwater levels on 11 April 2025 and field observations recorded during soil logging, the water table is located below the surface fill (where encountered) and within the native silty clay unit.

Groundwater elevations and inferred flow directions, based on depths to groundwater measured on 11 April 2025, are presented on **Figure 7**. In the 2017 Phase One ESA, groundwater at the Site was inferred to flow to the south (Golder, 2017). Groundwater contours presented on **Figure 7** indicate that the shallow groundwater at the Site flows in a northeasterly direction and towards the southwest portion of the Site with molding present underneath the building footprint, which is likely influenced by both sumps and municipal services.

The Phase Two Property is serviced by municipal water supply, sanitary, and storm sewer systems from the City of Ottawa. Furthermore, six sump pumps are present within the building footprint on-Site: two in the basement underneath the Shoppers Drug Mart, one in the back room of the Cozy Coverings unit, and one under each elevator pit located throughout the shopping centre (three elevators total). As such, underground utilities may be influencing the natural shallow groundwater flow regime, which was regionally expected to be to the south based on the elevation data collected by others in 2015 and 2016 from groundwater monitoring wells located throughout the Phase Two Property (Golder, 2017).

5.3 Groundwater: Hydraulic Gradient

Water level measurements collected from the on-Site monitoring wells provide information with respect to horizontal hydraulic gradient. The water level data collected during groundwater monitoring activities on 11 April 2025 was utilized to calculate minimum and maximum horizontal gradients for the Site. The horizontal hydraulic gradients were calculated as follows:

$$i_{hor} = \frac{\Delta H}{D_l}$$

Where:

I_{hor} – Horizontal hydraulic gradient (unitless);
ΔH – Change in groundwater elevations between monitoring wells (m); and,
D_l – Lateral distance between contour intervals (m).

The calculated hydraulic gradient for the on-Site data set ranged from 0.02 to 0.12. Larger hydraulic gradients near the southern portion of the Site are likely influenced by sumps and dewatering in basements.

The vertical hydraulic gradient was calculated as follows:

$$i_{ver} = \frac{\Delta H}{D_v}$$

Where:

I_{ver} – Vertical hydraulic gradient (unitless);
H – Change in groundwater elevations between monitoring wells (m); and,
D_v – Vertical distance between midpoint of well screens (m).

The vertical hydraulic gradient was calculated between 15-03 and 15-03A due to the proximity of the wells. The vertical hydraulic gradient was calculated to be 0.25 (downwards).

5.4 Soil Texture

Four samples were submitted for grainsize analysis across the Phase Two Property as part of a geotechnical investigation conducted concurrently with this Phase Two ESA (Geosyntec, 2025b). The samples were selected in the sandy silt and sandy clay till unit at depths ranging from 6.86 to 14.32 m bgs. A summary of the grain size analyses conducted at the Site are provided in the table below:

Sample ID	Sample Depth (m bgs)	Diameter Range (mm)	Grain Size Results (% wt)	Grain Size Classification
25-01-SS09	6.86 – 7.47	Gravel (>4.75)	60.1	Coarse
		Sand (0.075 – 4.75)		
		Silt (0.005 – 0.075)	39.9	
		Clay (<0.005)		
25-02-SS12	8.84 – 9.45	Gravel (>4.75)	77.2	Coarse
		Sand (0.075 – 4.75)		
		Silt (0.005 – 0.075)	22.8	
		Clay (<0.005)		
25-08-SS11	9.14 – 9.75	Gravel (>4.75)	63.7	Coarse
		Sand (0.075 – 4.75)		
		Silt (0.005 – 0.075)	36.3	
		Clay (<0.005)		
25-08-SS13	13.71 – 14.32	Gravel (>4.75)	77.1	Coarse
		Sand (0.075 – 4.75)		
		Silt (0.005 – 0.075)	22.9	
		Clay (<0.005)		

Notes:
> - greater than
m bgs – metres below ground surface
mm – millimetres
NA – Not applicable

All four samples were classified as coarse-grained soil (over 50% of particles greater than 0.075 mm in diameter). The Site overburden geology ranges from relatively coarse-grained fill, underlain by very fine-grained silty clay, which on its turn is underlain by the glacial till described by the soil samples above. As a measure of conservatism, coarse-textured standards are considered appropriate for the purposes of the Phase Two ESA investigation.

5.5 Soil: Field Screening

During the borehole investigation, field screening measurements collected ranged from 0 ppm_v (several samples) to 14.7 ppm_v for all measurements in PID mode. Geosyntec did not observe visual or olfactory evidence of impacts during the drilling and soil sampling activities. The field screening measurements and results are shown on the borehole logs in **Appendix B**.

5.6 Soil Quality

Soil samples were generally collected with following the Phase Two SAP, with the exceptions of the deviations noted in Section 4.4. As noted above, no visual or olfactory evidence of impact was identified during the soil investigation. The visual and olfactory observations are shown on the borehole logs provided in **Appendix B**.

The analytical data for the submitted soil samples collected from the boreholes are summarized in **Table 2**, which also provides the sample depths and a comparison of analytical results to the Table 3 SCS. The soil sample locations are shown on **Figure 6**. Soil analytical results are presented on the certificate of analysis in **Appendix C**.

In the analyzed soil samples, COPCs were not detected at concentrations greater than the analytical reporting limits (RLs) or were detected at concentrations less than the Table 3 SCS, with the exception of the following:

- EC was detected at concentrations greater than the Table 3 SCS of 1.4 milliSiemens per centimeter (mS/cm) in the following soil samples (reported concentration in parentheses):
    - 25-01 at depths of 1.22 – 1.83 m bgs (4.43 mS/cm) and 1.83 – 2.44 m bgs (4.18 mS/cm);
    - 25-02 at a depth of 1.98 – 2.59 m bgs (2.96 mS/cm);
    - 25-06 at depths of 0 – 0.61 m bgs (2.21 mS/cm) and 0.76 – 1.37 m bgs (8.96 mS/cm);
    - 25-07 at depths of 0.61 – 0.914 m bgs (1.72 mS/cm; duplicate concentration of 1.86 mS/cm) and 2.29 – 2.90 m bgs (4.56 mS/cm);
    - 25-09 at depths of 0 – 0.61 m bgs (2.04 mS/cm), 0.76 – 1.37 m bgs (3.14 mS/cm), and 2.29 – 2.89 m bgs (1.69 mS/cm); and,
    - 25-11 at depths of 0.31 – 0.61 m bgs (3.37 mS/cm) and 3.05 – 3.66 m bgs (2.12 mS/cm).

- SAR was detected at concentrations greater than the Table 3 SCS of 12 in the following soil samples (reported concentration in parentheses):
  - 25-01 at depths of 0.61 – 1.22 m bgs (20) and 1.22 – 1.83 m bgs (29);
  - 25-06 at depths of 0 – 0.61 m bgs (19) and 0.76 – 1.37 m bgs (95);
  - 25-07 at depths of 0.61 – 0.914 m bgs (14; duplicate concentration of 17) and 2.29 – 2.90 m bgs (17); and,
  - 25-09 at depths of 0 – 0.61 m bgs (33) and 0.76 – 1.37 m bgs (24).
- Cobalt was detected at a concentration of 82.4 micrograms per gram (µg/g) (Table 3 SCS of 80 µg/g) in soil sample 25-04 at a depth of 0.15 – 0.30 m bgs.
- Vanadium was detected at concentrations greater than the Table 3 SCS of 86 µg/g in the following soil samples (reported concentration in parentheses):
  - 25-02 at a depth of 1.98 – 2.59 m bgs (98.8 µg/g);
  - 25-03 at a depth of 2.29 – 2.90 m bgs (109 µg/g);
  - 25-05 at a depth of 1.07 – 1.68 m bgs (100.3 µg/g);
  - 25-06 at a depth of 0.76 – 1.37 m bgs (92.0 µg/g);
  - 25-07 at a depth of 2.29 – 2.90 m bgs (104.0 µg/g);
  - 25-08 at a depth of 0.76 – 1.38 m bgs (101.0 µg/g); and,
  - 25-09 at a depth of 2.29 – 2.89 m bgs (105.0 µg/g).

No parameters had concentrations greater than the Table 3 SCS in soil at the Phase Two Property during past investigations (see Section 3.2).

All other maximum RLs were less than the Table 3 SCS for all parameters analyzed in soil samples collected from the Site. Accordingly, no COCs were identified as a result of maximum RLs or unavailable Table 3 SCS.

Vanadium concentrations were greater than the Table 3 SCS in soil at seven borehole locations and a cobalt concentration was greater than the Table 3 SCS in soil at one borehole location. Geosyntec considers these concentrations to be naturally occurring as vanadium and cobalt can be associated with the Champlain Sea clay deposits, which commonly contain concentrations of trace metals, including vanadium and cobalt, above the *'Table 1: Full Depth Background SCS'* (Table 1 SCS). It is noted that the Table 1 SCS for vanadium is interchangeable with the Table 3 SCS (i.e. 86 µg/g). In a 2017 study conducted by Geofirma Engineering Ltd., Dillon Consulting Limited, and the City (City of Ottawa, 2017), a review of analytical data collected from 285 soil samples identified the average and maximum concentrations of vanadium to be 75 µg/g and 136 µg/g, respectively, with the 75th percentile concentration (i.e. 92.5 µg/g) exceeding the Table 1 SCS. The study concluded that naturally occurring concentrations of trace metals, including vanadium and cobalt, above the respective Table 1 SCS, could be expected to occur

commonly in clay soils in the Ottawa region. Considering this information, vanadium and cobalt concentrations identified in on-Site soils are considered to be representative of local background conditions and do not represent COCs for the Site.

The source of the elevated EC and SAR in soil is attributed to the application of de-icing salt on the adjacent right of ways (i.e. Highway 417, Carling Avenue, and Merivale Road) and the paved surfaces of the Site, for the purposes of safety for vehicular and pedestrian traffic during the winter months. As such, an exemption under O. Reg. 153/04, Section 49.1, Paragraph 1 is relied upon.

In summary, no concentrations greater than the Table 3 SCS in soil samples collected from the Phase Two Property were observed and therefore, no COCs in soil were identified at the Phase Two Property. The concentrations of soil samples collected are shown by parameter group on **Figure 8** and **Figure 9**.

5.7 Groundwater Quality

Groundwater samples were generally collected following the Phase Two SAP, with the exceptions of the deviations noted in Section 4.4. No NAPL was encountered during the groundwater investigation. The analytical data for the submitted groundwater samples collected from the monitoring wells are summarized in **Table 3**, which also provides the depths of the monitoring well screen intervals and compares analytical results to the Table 3 SCS. The monitoring well locations are shown in **Figure 6**. Groundwater analytical results are presented on the certificate of analysis in **Appendix C**.

In the analyzed groundwater samples, COPCs were not detected at concentrations greater than the analytical RLs or were detected at concentrations less than the Table 3 SCS, with the exception of the following:

- Chloride was detected at concentrations greater than the Table 3 SCS of 2,300 mg/L in the following groundwater samples (reported concentration in parentheses):
  - 25-06 at a screened depth of 2.71 – 5.76 m bgs (5,930 mg/L; duplicate concentration of 5,940 mg/L).
- Sodium was detected at concentrations greater than the Table 3 SCS of 490 mg/L in the following groundwater samples (reported concentration in parentheses):
  - 15-17 at a screened depth of 5.79 – 7.32 m bgs (803 mg/L);
  - 25-03 at a screened depth of 1.83 – 4.88 m bgs (733 mg/L); and,
  - 25-06 at a screened depth of 2.71 – 5.76 m bgs (2,780 mg/L; duplicate concentration of 2,790 mg/L).
- PHC F2 was detected at a concentration of 308 micrograms per liter (µg/L) (Table 3 SCS of 150 µg/L) in groundwater sample 15-19 at a screened depth of 2.74 – 4.26 m bgs.

- Cis-1,2-dichloroethylene (cis-1,2-DCE) was detected at concentrations greater than the Table 3 SCS of 1.6 µg/L in the following groundwater samples (reported concentration in parentheses):
  - 15-03 at a screened depth of 3.05 – 6.10 m bgs (230 µg/L); and,
  - 15-15 at a screened depth of 4.57 – 6.10 m bgs (10.2 µg/L).
- PCE was detected at concentrations greater than the Table 3 SCS of 1.6 µg/L in the following groundwater samples (reported concentration in parentheses):
  - 15-03 at a screened depth of 3.05 – 6.10 m bgs (188 µg/L); and,
  - 15-15 at a screened depth of 4.57 – 6.10 m bgs (407 µg/L).

The following parameters had concentrations greater than the Table 3 SCS in groundwater samples collected from the Phase Two Property during past investigations (see Section 3.2):

Parameter	Past Investigation Reference	Rationale
PHC F2	Golder, 2017	In the 2017 Phase Two ESA, concentrations of PHC F2 (500 µg/L; duplicate concentration of 520 µg/L) were greater than the Table 3 SCS of 150 µg/L at 15-19 at a screened depth of 2.74 – 4.26 m bgs.
1,1-dichloroethene	Golder, 2017	In the 2017 Phase Two ESA, concentrations of 1,1-dichloroethene (4.7 µg/L; duplicate concentration of 3.6 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs.
Cis-1,2-DCE	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of cis-1,2-DCE (590 µg/L; duplicate concentration of 670 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of cis-1,2-DCE were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (750 µg/L; duplicate concentration of 800 µg/L); • 15-14 at a screened depth of 4.88 – 6.40 m bgs (16 µg/L); and, • 15-16 at a screened depth of 4.57 – 6.10 m bgs (1,100 µg/L).
Trans-1,2-DCE	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of trans-1,2-DCE (7.5 µg/L; duplicate concentration of 8.8 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs.

Parameter	Past Investigation Reference	Rationale
		In the 2017 Phase Two ESA, concentrations of trans-1,2-DCE were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (11 µg/L; duplicate concentration of 11 µg/L); and, • 15-16 at a screened depth of 4.57 – 6.10 m bgs (16 µg/L).
TCE	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of TCE (440 µg/L; duplicate concentration of 540 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of TCE were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (320 µg/L; duplicate concentration of 340 µg/L); • 15-14 at a screened depth of 4.88 – 6.40 m bgs (10 µg/L); • 15-15 at a screened depth of 4.57 – 6.10 m bgs (4.4 µg/L; duplicate concentration of 5.4 µg/L); and, • 15-16 at a screened depth of 4.57 – 6.10 m bgs (1,400 µg/L).
PCE	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of PCE (2,700 µg/L; duplicate concentration of 2,800 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of PCE were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (1,600 µg/L; duplicate concentration of 1,600 µg/L); • 15-03A at a screened depth of 9.25 – 10.72 m bgs (3.6 µg/L; duplicate concentration of 3.4 µg/L); • 15-14 at a screened depth of 4.88 – 6.40 m bgs (6.6 µg/L); • 15-15 at a screened depth of 4.57 – 6.10 m bgs (7.7 µg/L; duplicate concentration of 9.7 µg/L); and, • 15-16 at a screened depth of 4.57 – 6.10 m bgs (3,400 µg/L).
Vinyl Chloride (VC)	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of VC (52 µg/L; duplicate concentration of 52 µg/L) were greater than the Table 3 SCS of 0.5 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of VC were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses):

Parameter	Past Investigation Reference	Rationale
		• 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (54 µg/L; duplicate concentration of 47 µg/L); • 15-14 at a screened depth of 4.88 – 6.40 m bgs (0.67 µg/L); • 15-16 at a screened depth of 4.57 – 6.10 m bgs (9.2 µg/L).

The source of the elevated chloride and sodium in groundwater is attributed to the application of deicing salt on the adjacent right of ways (i.e. Highway 417, Carling Avenue, and Merivale Road) and the paved surfaces of the Site, for the purposes of safety for vehicular and pedestrian traffic during the winter months. As such, an exemption under O. Reg. 153/04, Section 49.1, Paragraph 1 is relied upon.

The concentrations of 1,1-dichloroethene and trans-1,2-DCE greater than the Table 3 SCS at 15-03 and 15-16, respectively, as reported in the 2017 Phase Two ESA (Golder, 2017) did not exceed the Table 3 SCS when these locations were re-sampled during the sampling event completed as part of this Phase Two ESA and therefore, are not considered to be COCs in groundwater at the Phase Two Property.

In summary, concentrations of PHC F2, cis-1,2-DCE, and PCE greater than the Table 3 SCS in select groundwater samples collected from the Phase Two Property are considered to represent COCs in groundwater at the Phase Two Property. Additionally, the TCE and VC concentrations greater than the Table 3 SCS in select groundwater samples historically collected from the Phase Two Property as part of the 2017 Phase Two ESA by others are also considered to represent COCs in groundwater at the Phase Two Property. The lateral distribution of these exceedances is shown by parameter group on **Figure 10** to **Figure 12**.

5.8 Sediment Quality

There are no water bodies on the Phase Two Property and, as such, sediment sampling was not completed as part of this Phase Two ESA.

5.9 Quality Assurance and Quality Control Results

QA/QC measures were implemented during the soil and groundwater investigations to result in representative samples and analytical data that meet the DQOs established for this Phase Two ESA (see Phase Two SAP in **Appendix A**). Deviations from the Phase Two SAP are described in Section 4.4.

Geosyntec validated the analytical data according to standard data validation procedures. Laboratory sample hold times, method blanks, and analyte lists were reviewed to evaluate whether the sample was analyzed within specified times, the laboratory instrument was operating within specification, and reports were prepared according to project requirements. Field data such as

sample labels, dates, and stabilization of parameters were also reviewed. Copies of the analytical laboratory reports are provided in **Appendix C**.

The methods for the field QA/QC program are discussed in Section 5.12 and the results are summarized below. A summary of the data validation results, and QA/QC methods employed as part of the investigations is provided in the subsections below.

5.9.1 Summary of Field QA/QC Program

Soil Field QA/QC Program

Field duplicate soil samples were collected and submitted by Geosyntec during soil sampling activities to evaluate the precision of the sampling and analysis system. A summary of the field duplicate soil sample pairings submitted for analysis is presented on the following table:

Analytical Parameters in Soil	Total Samples	Total Duplicates	Duplicate Sample ID
VOCs	20	3	DUP01 (duplicate of 25-07) DUP02 (duplicate of 25-09) DUP04 (duplicate of 25-10)
PHCs	20	3	
PAHs	20	3	
Metals (including As, Sb, Se, Cr [VI], Hg)	20	3	
B-HWS	20	3	
CN^-	19	3	
pH	20	3	
EC	19	3	
SAR	19	3	
PCBs	10	1	DUP01 (duplicate of 25-07)

Notes:

VOCs – Volatile Organic Compounds
PHCs – Petroleum Hydrocarbons Fractions F1 to F4
PAHs – Polycyclic Aromatic Hydrocarbons
As, Sb, Se – Arsenic, Antimony, and Selenium
CN^- - Cyanide
Cr (VI) – Hexavalent Chromium
PCBs – Polychlorinated Biphenyls
B-HWS – Boron (Hot Water Soluble)
Hg – Mercury
EC – Electrical Conductivity
SAR – Sodium Adsorption Ratio

As indicated in the table above, the number of duplicate analyses met the O. Reg. 153/04 requirement that at least one field duplicate sample is submitted for every ten samples submitted for analysis per parameter group. Method blanks were evaluated for detections greater than the RLs. Surrogates were evaluated for recovery within acceptance limits. Where calculable, laboratory duplicates, matrix spikes and matrix spike duplicates, and laboratory control samples were compared to applicable criteria or recovery limits. The QA/QC results were within acceptable limits.

In order to evaluate soil sampling precision, the relative percent difference (RPD) between parameter concentrations for corresponding soil primary and duplicate sample pairings was calculated using the following formula:

$$RPD = \frac{ABS\ (Rep - Dup)}{(Rep + Dup)/2} \times 100$$

Where:

ABS – Absolute Difference
REP – Primary Sample Concentration;
Dup – Duplicate Sample Concentration;

It is noted that the 30% RPD performance criteria utilized for this evaluation represents the minimum performance standard (which varies by parameter) established for laboratory primary/duplicate aliquots in the Analytical Protocol (MOE, 2011), although there is inherently more variability in the field collection of primary/duplicate sample soil pairings.

For soil field duplicate samples, all RPDs were below the project acceptance criteria of 30%, with the following exceptions:

- 25-07-SS1/DUP01: concentrations of PHC F4 (maximum RPD of 33%);
- 25-09-SS2/DUP02: concentrations of PHC F3 (maximum RPD of 157%);
- 25-09-SS2/DUP02: concentrations of PHC F4 (maximum RPD of 159%); and,
- 25-09-SS2/DUP02: concentrations of molybdenum (maximum RPD of 32%).

The overall level of variability in the soil primary/duplicate samples are within expected ranges. None of the above parameters exceeded the applicable SCS and therefore are not expected to alter the conclusions of this Phase Two ESA.

Groundwater Field QA/QC Program

Field duplicate groundwater samples were submitted during groundwater sampling activities to evaluate the precision of the sampling and analysis procedures. A summary of the field duplicate groundwater sample pairings submitted for analysis is presented on the following table:

Analytical Parameters in Groundwater	Total Samples	Total Duplicates	Duplicate Sample ID
VOCs	16	2	DUP01 (duplicate of 25-07) DUP02 (duplicate of 25-06)
PHCs	15	2	
PAHs	15	2	
Hg	13	2	
Metals (including As, Sb, Se, Cr [VI])	11	1	DUP02 (duplicate of 25-06)
Na	11	1	

Analytical Parameters in Groundwater	Total Samples	Total Duplicates	Duplicate Sample ID
Cl^-	11	1	
pH	11	1	
PCBs	6	1	DUP01 (duplicate of 25-07)
CN^-	9	0	NA

Notes:
VOCs – Volatile Organic Compounds
PHCs – Petroleum Hydrocarbons Fractions F1 to F4
PAHs – Polycyclic Aromatic Hydrocarbons
As, Sb, Se – Arsenic, Antimony, and Selenium
CN^- - Cyanide
Cr (VI) – Hexavalent Chromium
PCBs – Polychlorinated Biphenyls
Hg – Mercury
Na – Sodium
Cl^- – Chloride

As indicated in the table above, the number of duplicate analyses met the O. Reg. 153/04 requirement that at least one field duplicate sample is submitted for every ten samples submitted for analysis per parameter group, with the exception of metals (including As, Sb, Se, Cr [VI]), Na, Cl^-, pH, and CN^- due to an insufficient volume of groundwater available for sample collection at the time of the field investigation. In the analyzed groundwater samples, the majority of the above noted COPCs were not detected at concentrations greater than the analytical RLs with remaining COPCs detected at concentrations less than the Table 3 SCS. Given that no exceedances of any COPCs above were identified at concentrations greater than the Table 3 SCS (with the exception of Na and Cl^-, discussed in Section 6.7), the sample data are considered reliable for the purposes of this Phase Two ESA.

Five trip blank samples (one for each groundwater sampling event) were submitted for analysis of VOCs/PHC F1. The reported VOC/PHC F1 concentrations for the trip blanks were not detected at concentrations greater than the laboratory RLs. As such, the potential for the introduction of positive bias during the collection, transport and storage of these groundwater samples is considered low and the sample data are considered reliable for the purposes of this Phase Two ESA.

For the groundwater sample field duplicates, the RPDs for the reported parameter concentrations in groundwater between the primary and duplicate samples were calculated at values below the project acceptance criteria of 30%.

5.9.2 Deviations from Analytical Protocol

A summary of Geosyntec's soil and groundwater sample handling procedures with respect to the methods in the Analytical Protocol (MOE, 2011) is provided below:

- Soil and groundwater samples analyses were within the holding times specified in the Analytical Protocol (MOE, 2011).
- Soil and groundwater samples were placed in coolers with ice upon collection. Appropriate temperatures were maintained during sample storage and during transport to the laboratory. Upon receipt at the laboratory, the average temperature readings for soil and groundwater

sample submissions were within the required temperature range of 5±3 degrees Celsius (°C).

- Soil and groundwater samples collected by Geosyntec were placed in laboratory-supplied containers, pre-charged with preservative (where applicable), which met the bottling and preservation criteria of the Analytical Protocol (MOE, 2011).

5.9.3 Laboratory Certificates of Analyses

Geosyntec received a certificate of analysis for each sample submitted for laboratory analysis. Laboratory-applied qualifiers are included in their respective reports. Copies of laboratory certificates of analyses for soil and groundwater samples incorporated into this Phase Two ESA are included in **Appendix C**.

5.9.4 Results of QA/QC Program

Nine of the submitted groundwater samples were partly lab-filtered instead of field-filtered for select metals analyses. The samples were otherwise collected and submitted following Geosyntec SOPs and Analytical Protocol (i.e. collected into vials without preservatives, appropriate hold times, sufficient sample volume). Geosyntec notes that the concentrations of lab-filtered dissolved metal parameters were less than the laboratory RLs or the Table 3 SCS, and no metal exceedances when compared to the Table 3 SCS were identified across all groundwater samples collected from the Site. As such, these occurrences were found not to significantly impact the quality of the data for this Phase Two ESA.

Three of the groundwater samples contained visible sediment in groundwater. Measured concentrations of organic substances in water can be biased high due to presence of sediment. Geosyntec notes that the concentrations of affected VOC parameters were less than the laboratory RLs or the Table 3 SCS. As such, these occurrences were found not to significantly impact the quality of the data for this Phase Two ESA.

The laboratory analytical reports also identified an issue pertaining to the analysis of QC samples, namely the inability to calculate matrix spike recoveries due to high native concentrations. This issue is largely related to the heterogeneous nature of the soil samples recovered. They have been reviewed and found not to significantly impact the quality of the data derived from the laboratory reports.

Overall, field and laboratory data collected by Geosyntec met the DQOs of the investigations, and decision-making was not affected by the data collected. It is noted that certain data collected by others are being relied upon for the purposes of identifying maximum concentrations at the Phase Two Property (see Section 3.2).

6. PHASE TWO CONCEPTUAL SITE MODEL

6.1 Introduction and Background

The Phase Two Property has an area of approximately 2.87 hectares (7.09 acres) in size. At the time of reporting, the Phase Two Property was comprised of the Westgate Shopping Centre and associated parking spaces surrounding the multi-tenant commercial mall. The Site may be accessed from Carling Avenue to the south and Merivale Road to the east. There are no on-Site surface water bodies. Surface water drainage from the building and parking areas are directed to the municipal stormwater sewer system. The location of the Phase Two Property and a Site Layout Map are shown on **Figure 1** and **Figure 2**, respectively.

The Phase Two Property is located in an area that is developed with a mix of commercial uses. The Phase Two Property is bounded by a hydro easement to the north and Highway 417; a residential and commercial tower to the east and substation across Merivale Road; Carling Avenue and commercial properties to the south; and a commercial tower to the west. The Phase One Study Area is presented on **Figure 3**.

RioCan Holdings Inc. is the owner of the Phase Two Property, which is located within the City. The Property Identification Number (PIN) and legal description associated with the Phase Two Property are provided in the table below:

Phase Two Property Information	
Phase Two Property Addresses:	1309 Carling Avenue, Ottawa, Ontario K1Z 7L3 Additional Addresses: 1295, 1305, 1315, and 1325 Carling Avenue, Ottawa, Ontario
Property Identification Numbers (PINs):	04025-0172
Legal Description:	Part Of Lot 33 And Concession 1 (Ottawa Front), Nepean Part 1 Plan 5r-14579
Ownership:	RioCan Holdings Inc.
Site Contact Information:	Andrew Duncan, Chief Investment Officer (ADuncan@riocan.com)

The PCAs are shown on **Figure 4**, and the APECs are shown on **Figure 5.**

Based on the available Site-specific information as presented herein, the applicable SCS for the Phase Two Property, are the Table 3 SCS.

6.2 Potentially Contaminating Activities

On and off-Site PCAs were identified during the Phase One ESA, which led to multiple APECs on the Phase Two Property:

PCA Classification *(Table 2 of Schedule D, O. Reg. 153/04)*	Location of PCA
#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	On-Site
#18 – Electricity Generation, Transformation and Power Stations	On-Site
#28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site Off-Site (1331 Carling Avenue)
#30 – Importation of Fill Material of Unknown Quality	On-Site

The locations of the PCAs, differentiated by colour as to which off-Site PCAs resulted in an APEC at the Site, are shown on **Figure 4.**

6.3 Areas of Potential Environmental Concern

The on- and off-Site PCAs within the Phase One Study Area resulted in the identification of APECs at the Phase Two Property (**Figure 5**). The APEC summary table is as follows:

APEC	Location of APEC Concern on Phase One Property	PCA	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #1 – Former Dry Cleaning Operations	Northern portion and adjacent to the north of existing Shoppers Drug Mart	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	On-Site	VOCs	Soil and Groundwater
APEC #2 – Former Hydrocarbon Storage	Northeastern corner of the existing mall	#28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, PAHs, VOCs	Soil and Groundwater
APEC #3 – Former Hydrocarbon Storage	Northwestern corner of the existing mall – boiler room	#28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, PAHs, VOCs	Soil and Groundwater

APEC	Location of APEC Concern on Phase One Property	PCA	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #4 – Electrical Vault and Former Transformer	Western portion of existing mall	#18 – Electricity Generation, Transformation and Power Stations	On-Site	PHCs, PAHs, VOCs, PCBs, Metals, (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater
APEC #5 – Electrical Vault and Former Transformer	Basement – Shoppers Drug Mart	#18 – Electricity Generation, Transformation and Power Stations	On-Site	PHCs, PAHs, VOCs, PCBs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater
APEC #6 – Former Gasoline Storage (1335 Carling Avenue)	Western Site boundary	#28 – Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs, PAHs, VOCs	Groundwater
APEC #7 – Potential Presence of Fill Material	Entire Site	#30 – Importation of Fill Material of Unknown Quality	On-Site	PHCs, PAHs, VOCs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil

APEC	Location of APEC Concern on Phase One Property	PCA	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #8 – Electrical Vault and Former Transformer	Northeastern corner of the existing mall	#18 – Electricity Generation, Transformation and Power Stations	On-Site	PHCs, PAHs, VOCs, PCBs, Metals, (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater

Notes:
VOCs – Volatile Organic Compounds
PHCs – Petroleum Hydrocarbons Fractions F1 to F4
PAHs – Polycyclic Aromatic Hydrocarbons
As, Sb, Se – Arsenic, Antimony, and Selenium
CN^- - Cyanide
Cr (VI) – Hexavalent Chromium
PCBs – Polychlorinated Biphenyls
B-HWS – Boron (Hot Water Soluble)
Hg – Mercury
Na – Sodium
Cl^- – Chloride
EC – Electrical Conductivity
SAR – Sodium Adsorption Ratio

6.4 Subsurface Structures and Utilities

The Phase Two Property is serviced by municipal water supply, sanitary, and storm sewer systems from the City of Ottawa. Upon review of geoOttawa, the City's interactive mapping tool, sanitary and storm sewers are present along the northern and western property boundaries, Carling Avenue, and Merivale Road; and watermains are present along the building boundaries, extending from the south from Carling Avenue.

Furthermore, six sump pumps are present within the building footprint on-Site: two in the basement underneath the Shoppers Drug Mart, one in the back room of the Cozy Coverings unit, and one under each elevator pit located throughout the shopping centre (three elevators total). Groundwater flow is likely occurring predominantly in the native silty clay zone, and the water table encountered at the Phase Two Property exists between approximately 0.314 to 6.139 m bTOC. Typically, the depths of the buried utilities are between 2 and 4 m bgs, which would therefore be situated within the water table. It is considered likely that buried utilities/structures may be influencing the natural shallow groundwater flow regime.

6.5 Physical Setting

The Phase Two Property is located in an area that is developed with a mix of commercial uses. The Phase Two Property is bounded by a hydro easement to the north and Highway 417; a

residential and commercial tower to the east and substation across Merivale Road; Carling Avenue and commercial properties to the south; and a commercial tower to the west.

A review of the ERIS *'OBM'* map, as well as satellite imagery available for viewing on Google Earth™, indicates that the Phase One Property is situated at an elevation of approximately 75 m amsl. Regional topography slopes gently downward to the north towards the Ottawa River.

6.6 Stratigraphy

The Phase Two Property is located in a region comprised of one overburden unit which consists of offshore marine deposits (clay and silt) and alluvial deposits (silt), as shown in geological records prepared by the Ontario Geological Survey. Further, a review of literature pertaining to the geology of the Ottawa region indicates that these native clay soils are associated with post-glacial Champlain Sea marine deposits. A Champlain Sea clay deposit typically includes a surficial crust (consisting of stiffer and drier clay) underlain by a weaker and more compressible clay layer (City of Ottawa, 2017). The map of the Physiography of Southern Ontario shows the Site to be located within a region of clay plains of the Ottawa Valley Clay Plains (Chapman and Putnam, 1984). The Ontario Geological Survey identifies bedrock underlying the Site as limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group, Simcoe Group, and Shadow Lake Formation. Bedrock was encountered in the geotechnical borehole locations during the Phase Two ESA investigation at depths of between 11.3 m and 17.8 m bgs. Based on the results of field investigations conducted at the Phase Two Property, the majority of the Phase Two Property is underlain by a layer of sand and gravel fill material, followed by a layer of silty clay and silty sand, overlaying limestone, which extended to the maximum investigated depth of 20.57 m bgs. The Site investigation geologic data is summarized in the following table:

Geological Unit	Approximate Maximum Thickness (m)	Approximate Depth Below Ground Surface (m bgs)	Properties
Fill	2.44	0 to 2.44 (maximum)	Fill material comprised of sand and gravel with silt present throughout the Phase Two Property. This unit is located in the unsaturated zone.
Glaciomarine clays	~8	~0.46 to 8.84 (maximum)	Native overburden material consisting of a heterogenous mixture of predominately silty clay, associated with the Champlain Sea Sediments.
Glacial Till	~7	~4 to 17.83	Silty to sandy gravel with trace clay and boulders.
Bedrock	NA	>11.3 to 17.8 at 25-08	Limestone with interbedded shale, grey

A cross-section location plan is presented on **Figure 13**. Cross-sections showing the stratigraphy of the Site are presented on **Figure 14** to **Figure 18**.

6.7 Hydrogeology and Groundwater Flow

Groundwater elevations and inferred flow directions, based on depths to groundwater measured on 11 April 2025, are presented on **Figure 7**. The hydraulic gradient is directed to the northeast in the northern portion of the Phase Two Property and generally towards the southwest portion of the Site in the central and southern portions of the Phase Two Property with the groundwater flow in the same direction as the hydraulic gradient as shown **Figure 7**. In the 2017 Phase One ESA, groundwater at the Site was inferred to flow to the south (Golder, 2017).

The Phase Two Property is serviced by municipal water supply, sanitary, and storm sewer systems from the City of Ottawa. Furthermore, six sump pumps are present within the building footprint on-Site: two in the basement underneath the Shoppers Drug Mart, one in the back room of the Cozy Coverings unit, and one under each elevator pit located throughout the shopping centre (three elevators total). As such, underground utilities may be influencing the natural shallow groundwater flow regime, which was regionally expected to be to the south based on the elevation data collected by others in 2015 and 2016 from groundwater monitoring wells located throughout the Phase Two Property (Golder, 2017).

The water level data collected during the 11 April 2025 groundwater monitoring event was utilized to assess the minimum and maximum horizontal gradients for the Site. The calculated hydraulic gradient for the on-Site data set ranged from 0.02 to 0.12. Larger hydraulic gradients near the southern portion of the Site are likely influenced by sumps and dewatering in basements.

The vertical hydraulic gradient was calculated between 15-03 and 15-03A due to the proximity of the wells. The vertical hydraulic gradient was calculated to be 0.25 (downwards).

6.8 Approximate Depth to Bedrock

The Phase Two Property is located in an area with bedrock described as consisting of limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group, Simcoe Group, and Shadow Lake Formation. Bedrock was encountered at geotechnical borehole locations during the Phase Two ESA investigation at depths between 11.3 and 17.8 m bgs.

6.9 Approximate Depth to Water Table

The newly installed and existing monitoring wells at the Site were screened across the water table and the measured depth to groundwater ranged between 67.798 and 73.570 m amsl on 11 April 2025.

6.10 Section 35, 41, or 43.1 of O. Reg. 153/04

The Phase Two Property and Phase One Study Area is located in an area of the City that is serviced by the municipal drinking water system. Upon review of the WWIS database, Geosyntec notes that there appears to be at least six domestic water supply wells (i.e. potable) located within the Phase One Study Area (i.e. Well ID No. 1503974, 1507809, 1507810, 1507980, 1507982, and 1510605) installed between 1949 and 1951. Given the age of installation and that the Phase One Study Area is serviced by municipal water supply, it is not expected that these water supply wells are active and therefore, Geosyntec is of the opinion that a non-potable groundwater condition exists at the Site, in accordance with Section 35 of O. Reg. 153/04, as amended.

The Phase Two Property is not considered environmentally sensitive, as defined by Section 41 of O. Reg. 153/04, as amended. Based on the results of the Phase One ESA, the Site is not located within an area of natural significance, nor does it include or is it adjacent to, or within, 30 m of such an area, as defined in Section 41(1)(a) of O. Reg. 153/04, as amended. In addition, 24 pH samples were collected and analyzed for the Phase Two Property as part of this investigation. The results were within the range for non-environmentally sensitive sites for surface (<1.5 m bgs) and subsurface (>1.5 m bgs) soils.

The Phase Two Property is not considered a shallow soil property in accordance with Section 43.1(1)(a) of O. Reg. 153/04 because greater than 2 m of overburden soil exists across more than two thirds of the Site.

The Phase Two Property is not considered a property located within 30 m of a water body per Section 43.1(1)(b) of O. Reg. 153/04, as amended. There are no surface water bodies present at the Site or within 30 m of the Site. The nearest body of water relative to the Phase Two Property is the Ottawa River, located approximately 2.2km northwest and north of the Site.

Based on the available Site-specific information, the applicable SCS for the Phase Two Property are the Table 3 SCS.

6.11 Soil Brought to the Phase Two Property

The following findings were identified in 2025 Phase One ESA concerning soil brought to the Phase Two Property (Geosyntec, 2025a):

- In the 2015 Phase One ESA (Golder, 2015a), the presence of fill at the Site was identified based on historical borehole records and from the construction of the Westgate Shopping Centre. The presence of fill was therefore considered to represent an on-Site PCA and APEC.
- In the 2017 Phase Two ESA (Golder, 2017), surficial fill materials, including fill associated with the parking lot pavement structure, were observed extending to a depth of up to 2.5 m bgs.

Based on the above, fill material at the Site was investigated as APEC #7 – Potential Presence of Fill Material (Entire Site). To assess the COPCs associated with fill material, fill material samples were submitted for all COPCs in ten boreholes completed across the Phase Two Property.

6.12 Proposed Buildings or Structures

Geosyntec understands that RioCan intends to demolish the existing mall to the north of the existing Shoppers Drug Mart and redevelop the Phase Two Property for commercial use. It is Geosyntec's understanding that the future land use of the Phase Two Property will remain commercial.

6.13 Distribution of Contaminants

The approximate locations of the boreholes and monitoring wells are shown on **Figure 6**. The rationale for the selection of borehole/monitoring well locations is provided in the table below:

Area of Potential Environmental Concern	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)	Sampling Locations (Soil)	Sampling Locations (Groundwater)
APEC #1 – Former Dry Cleaning Operations	VOCs	Soil and Groundwater	25-02 25-05 25-08	25-02 25-05 25-08 15-03* 15-06* 15-15* 15-16* 15-17*
APEC #2 – Former Hydrocarbon Storage	PHCs, PAHs, VOCs	Soil and Groundwater	25-07	25-07 15-19*
APEC #3 – Former Hydrocarbon Storage	PHCs, PAHs, VOCs	Soil and Groundwater	25-01 25-04	25-04 15-05*
APEC #4 – Electrical Vault and Former Transformer	PHCs, PAHs, VOCs, PCBs, Metals, (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater	25-03	25-03

Area of Potential Environmental Concern	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)	Sampling Locations (Soil)	Sampling Locations (Groundwater)
APEC #5 – Electrical Vault and Former Transformer	PHCs, PAHs, VOCs, PCBs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater	25-06	25-06
APEC #6 – Former Gasoline Storage (1335 Carling Avenue)	PHCs, PAHs, VOCs	Soil and Groundwater	25-06	25-06 25-01* 15-03* 15-16*
APEC #7 – Potential Presence of Fill Material	PHCs, PAHs, VOCs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil	25-01 25-02 25-03 25-06 25-07 25-08 25-09 25-10 25-11	Not required as fill material does not intersect the water table
APEC #8 – Electrical Vault and Former Transformer	PHCs, PAHs, VOCs, PCBs, Metals, (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl^-, CN^-, low or high pH, EC, and SAR	Soil and Groundwater	25-07	25-07 15-19*

Notes:

* – Existing monitoring well installed by others
VOCs – Volatile Organic Compounds
PHCs – Petroleum Hydrocarbons Fractions F1 to F4
CN^- - Cyanide
Cr (VI) – Hexavalent Chromium
CN^- - Cyanide
Cr (VI) – Hexavalent Chromium
PCBs – Polychlorinated Biphenyls
B-HWS – Boron (Hot Water Soluble)
Hg – Mercury
Na – Sodium
Cl^- – Chloride

Soil

In the analyzed soil samples, COPCs were not detected at concentrations greater than the analytical RLs or were detected at concentrations less than the Table 3 SCS, with the exception of the following:

- EC was detected at concentrations greater than the Table 3 SCS of 1.4 mS/cm in the following soil samples (reported concentration in parentheses):
  - 25-01 at depths of 1.22 – 1.83 m bgs (4.43 mS/cm) and 1.83 – 2.44 m bgs (4.18 mS/cm);
  - 25-02 at a depth of 1.98 – 2.59 m bgs (2.96 mS/cm);
  - 25-06 at depths of 0 – 0.61 m bgs (2.21 mS/cm) and 0.76 – 1.37 m bgs (8.96 mS/cm);
  - 25-07 at depths of 0.61 – 0.914 m bgs (1.72 mS/cm; duplicate concentration of 1.86 mS/cm) and 2.29 – 2.90 m bgs (4.56 mS/cm);
  - 25-09 at depths of 0 – 0.61 m bgs (2.04 mS/cm), 0.76 – 1.37 m bgs (3.14 mS/cm), and 2.29 – 2.89 m bgs (1.69 mS/cm); and,
  - 25-11 at depths of 0.31 – 0.61 m bgs (3.37 mS/cm) and 3.05 – 3.66 m bgs (2.12 mS/cm).
- SAR was detected at concentrations greater than the Table 3 SCS of 12 in the following soil samples (reported concentration in parentheses):
  - 25-01 at depths of 0.61 – 1.22 m bgs (20) and 1.22 – 1.83 m bgs (29);
  - 25-06 at depths of 0 – 0.61 m bgs (19) and 0.76 – 1.37 m bgs (95);
  - 25-07 at depths of 0.61 – 0.914 m bgs (14; duplicate concentration of 17) and 2.29 – 2.90 m bgs (17); and,
  - 25-09 at depths of 0 – 0.61 m bgs (33) and 0.76 – 1.37 m bgs (24).
- Cobalt was detected at a concentration of 82.4 µg/g (Table 3 SCS of 80 µg/g) in soil sample 25-04 at a depth of 0.15 – 0.30 m bgs.
- Vanadium was detected at concentrations greater than the Table 3 SCS of 86 µg/g in the following soil samples (reported concentration in parentheses):
  - 25-02 at a depth of 1.98 – 2.59 m bgs (98.8 µg/g);
  - 25-03 at a depth of 2.29 – 2.90 m bgs (109 µg/g);
  - 25-05 at a depth of 1.07 – 1.68 m bgs (100.3 µg/g);
  - 25-06 at a depth of 0.76 – 1.37 m bgs (92.0 µg/g);
  - 25-07 at a depth of 2.29 – 2.90 m bgs (104.0 µg/g);
  - 25-08 at a depth of 0.76 – 1.38 m bgs (101.0 µg/g); and,
  - 25-09 at a depth of 2.29 – 2.89 m bgs (105.0 µg/g).

No parameters had concentrations greater than the Table 3 SCS in soil at the Phase Two Property during past investigations (see Section 3.2).

All other maximum RLs were less than the Table 3 SCS for all parameters analyzed in soil samples collected from the Site. Accordingly, no COCs were identified as a result of maximum RLs or unavailable Table 3 SCS.

Vanadium concentrations were greater than the Table 3 SCS in soil at seven borehole locations and a cobalt concentration was greater than the Table 3 SCS in soil at one borehole location. Geosyntec considers these concentrations to be naturally occurring as vanadium and cobalt can be associated with the Champlain Sea clay deposits, which commonly contain concentrations of trace metals, including vanadium and cobalt, above the *'Table 1: Full Depth Background SCS'* (Table 1 SCS). It is noted that the Table 1 SCS for vanadium is interchangeable with the Table 3 SCS (i.e. 86 µg/g). In a 2017 study conducted by Geofirma Engineering Ltd., Dillon Consulting Limited, and the City of Ottawa (City of Ottawa, 2017), a review of analytical data collected from 285 soil samples identified the average and maximum concentrations of vanadium to be 75 µg/g and 136 µg/g, respectively, with the 75th percentile concentration (i.e. 92.5 µg/g) exceeding the Table 1 SCS. The study concluded that naturally occurring concentrations of trace metals, including vanadium and cobalt, above the respective Table 1 SCS, could be expected to occur commonly in clay soils in the Ottawa region. Considering this information, vanadium and cobalt concentrations identified in onSite soils are considered to be representative of local background conditions and do not represent COCs for the Site.

The source of the elevated EC and SAR in soil is attributed to the application of deicing salt on the adjacent right of ways (i.e. Highway 417, Carling Avenue, and Merivale Road) and the paved surfaces of the Site, for the purposes of safety for vehicular and pedestrian traffic during the winter months. As such, an exemption under O. Reg. 153/04, Section 49.1, Paragraph 1 is relied upon.

In summary, no concentrations greater than the Table 3 SCS in soil samples collected from the Phase Two Property were observed and therefore, no COCs in soil were identified at the Phase Two Property. The concentrations of soil samples collected are shown by parameter group on **Figure 8** and **Figure 9**.

Groundwater

In the analyzed groundwater samples, COPCs were not detected at concentrations greater than the analytical RLs or were detected at concentrations less than the Table 3 SCS, with the exception of the following:

- Cl^- was detected at concentrations greater than the Table 3 SCS of 2,300 mg/L in the following groundwater samples (reported concentration in parentheses):
  - 25-06 at a screened depth of 2.71 – 5.76 m bgs (5,930 mg/L; duplicate concentration of 5,940 mg/L).

- Sodium was detected at concentrations greater than the Table 3 SCS of 490 mg/L in the following groundwater samples (reported concentration in parentheses):
  - 15-17 at a screened depth of 5.79 – 7.32 m bgs (803 mg/L);
  - 25-03 at a screened depth of 1.83 – 4.88 m bgs (733 mg/L); and,
  - 25-06 at a screened depth of 2.71 – 5.76 m bgs (2,780 mg/L; duplicate concentration of 2,790 mg/L).
- PHC F2 was detected at a concentration of 308 µg/L (Table 3 SCS of 150 µg/L) in groundwater sample 15-19 at a screened depth of 2.74 – 4.26 m bgs.
- Cis-1,2-dichloroethylene (cis-1,2-DCE) was detected at concentrations greater than the Table 3 SCS of 1.6 µg/L in the following groundwater samples (reported concentration in parentheses):
  - 15-03 at a screened depth of 3.05 – 6.10 m bgs (230 µg/L); and,
  - 15-15 at a screened depth of 4.57 – 6.10 m bgs (10.2 µg/L).
- PCE was detected at concentrations greater than the Table 3 SCS of 1.6 µg/L in the following groundwater samples (reported concentration in parentheses):
  - 15-03 at a screened depth of 3.05 – 6.10 m bgs (188 µg/L); and,
  - 15-15 at a screened depth of 4.57 – 6.10 m bgs (407 µg/L).

The following parameters had concentrations greater than the Table 3 SCS in groundwater samples collected from the Phase Two Property during past investigations (see Section 3.2):

Parameter	Past Investigation Reference	Rationale
PHC F2	Golder, 2017	In the 2017 Phase Two ESA, concentrations of PHC F2 (500 µg/L; duplicate concentration of 520 µg/L) were greater than the Table 3 SCS of 150 µg/L at 15-19 at a screened depth of 2.74 – 4.26 m bgs.
1,1-dichloroethene	Golder, 2017	In the 2017 Phase Two ESA, concentrations of 1,1-dichloroethene (4.7 µg/L; duplicate concentration of 3.6 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs.

Parameter	Past Investigation Reference	Rationale
Cis-1,2-DCE	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of cis-1,2-DCE (590 µg/L; duplicate concentration of 670 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of cis-1,2-DCE were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (750 µg/L; duplicate concentration of 800 µg/L); • 15-14 at a screened depth of 4.88 – 6.40 m bgs (16 µg/L); and, • 15-16 at a screened depth of 4.57 – 6.10 m bgs (1,100 µg/L).
Trans-1,2-DCE	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of trans-1,2-DCE (7.5 µg/L; duplicate concentration of 8.8 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of trans-1,2-DCE were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (11 µg/L; duplicate concentration of 11 µg/L); and, • 15-16 at a screened depth of 4.57 – 6.10 m bgs (16 µg/L).

Parameter	Past Investigation Reference	Rationale
TCE	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of TCE (440 µg/L; duplicate concentration of 540 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of TCE were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (320 µg/L; duplicate concentration of 340 µg/L); • 15-14 at a screened depth of 4.88 – 6.40 m bgs (10 µg/L); • 15-15 at a screened depth of 4.57 – 6.10 m bgs (4.4 µg/L; duplicate concentration of 5.4 µg/L); and, • 15-16 at a screened depth of 4.57 – 6.10 m bgs (1,400 µg/L).
PCE	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of PCE (2,700 µg/L; duplicate concentration of 2,800 µg/L) were greater than the Table 3 SCS of 1.6 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of PCE were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (1,600 µg/L; duplicate concentration of 1,600 µg/L); • 15-03A at a screened depth of 9.25 – 10.72 m bgs (3.6 µg/L; duplicate concentration of 3.4 µg/L); • 15-14 at a screened depth of 4.88 – 6.40 m bgs (6.6 µg/L); • 15-15 at a screened depth of 4.57 – 6.10 m bgs (7.7 µg/L; duplicate concentration of 9.7 µg/L); and, • 15-16 at a screened depth of 4.57 – 6.10 m bgs (3,400 µg/L).

Parameter	Past Investigation Reference	Rationale
Vinyl Chloride (VC)	Golder, 2015b Golder, 2017	In the 2015 Phase Two ESA, concentrations of VC (52 µg/L; duplicate concentration of 52 µg/L) were greater than the Table 3 SCS of 0.5 µg/L at 15-03 at a screened depth of 3.05 – 6.10 m bgs. In the 2017 Phase Two ESA, concentrations of VC were greater than the Table 3 SCS in the following groundwater samples (reported concentration in parentheses): • 15-03 (re-sampled) at a screened depth of 3.05 – 6.10 m bgs (54 µg/L; duplicate concentration of 47 µg/L); • 15-14 at a screened depth of 4.88 – 6.40 m bgs (0.67 µg/L); • 15-16 at a screened depth of 4.57 – 6.10 m bgs (9.2 µg/L).

The source of the elevated Cl^- and sodium in groundwater is attributed to the application of deicing salt on the adjacent right of ways (i.e. Highway 417, Carling Avenue, and Merivale Road) and the paved surfaces of the Site, for the purposes of safety for vehicular and pedestrian traffic during the winter months. As such, an exemption under O. Reg. 153/04, Section 49.1, Paragraph 1 is relied upon.

The concentrations of 1,1-dichloroethene and trans-1,2-DCE greater than the Table 3 SCS at 15-03 and 15-16, respectively, as reported in the 2017 Phase Two ESA (Golder, 2017) did not exceed the Table 3 SCS when these locations were re-sampled during the sampling event completed as part of this Phase Two ESA and therefore, are not considered to be COCs in groundwater at the Phase Two Property.

In summary, concentrations of PHC F2, cis-1,2-DCE, and PCE greater than the Table 3 SCS in select groundwater samples collected from the Phase Two Property are considered to represent COCs in groundwater at the Phase Two Property. Additionally, the TCE and VC concentrations greater than the Table 3 SCS in select groundwater samples historically collected from the Phase Two Property as part of the 2017 Phase Two ESA by others are also considered to represent COCs in groundwater at the Phase Two Property. The lateral distribution of these exceedances is shown by parameter group on **Figure 10** to **Figure 12**.

Sediment

No sediment is present on the Phase Two Property. No visual or olfactory evidence of impact, including NAPL, was encountered during the Phase Two ESA investigation.

6.14 Contaminant Exposure Pathways

The human health and ecological CSMs for this Site were based on an industrial/commercial/community setting, in a non-potable groundwater condition, with no surface water bodies present at the Site. The human health and ecological CSM diagrams are presented in **Figure 19** and **Figure 20**, respectively, and show:

- Contaminant release mechanisms;
- Contaminant transport pathways;
- On- and off-Site human and ecological receptors;
- Receptor exposure points; and,
- Routes of exposure.

Figure 16 summarizes the human health CSM. The Phase Two Property was historically and currently used for industrial/commercial purposes. It is understood that a portion of the existing Site building will be demolished and a future building for industrial/commercial property use will be constructed on the Phase Two Property partially within the same footprint as the existing Site building. As such, the identified on-Site receptors are a construction (or utility) worker, indoor and outdoor workers, and property visitors. The adjacent and nearby property use currently includes roadways, commercial facilities, and residential land. As such, the identified off-Site human receptors are indoor workers, property visitors, and residents.

Figure 17 summarizes the ecological CSM. The Site is located within an urban area and is not considered to be within an environmentally sensitive area. There is limited potential for Species at Risk (SaR) and/or SaR habitat on or in the vicinity of the Site. The entirety of the Site is primarily covered by a mix of asphalt and concrete surface coverings with minimal landscaped areas. A considerable portion of the Site in the future will remain paved or be under the footprint of a future building. The ecological CSM assumes that receptors have the potential to have direct contact with all on-Site soils without any barriers or restrictions. As such, the identified on and off-Site ecological receptors are those typical of Eastern Ontario terrestrial urban and vegetated environments and include terrestrial plants, soil invertebrates, reptiles, amphibians, terrestrial mammals, and terrestrial birds. Given the nearest body of water relative to the Site is the Ottawa River, located approximately 2.2 km northwest and north of the Site, aquatic receptors including aquatic plants, aquatic invertebrates, and fish were not considered as off-Site ecological receptors.

6.15 Non-Standard Delineation, Schedule E, Section 7.1

Non-standard delineation, as defined by O. Reg. 153/04, Schedule E, Section 7.1, was not required.

6.16 Exemption Under Section 49.1, Paragraphs 1 to 3

An exemption under O. Reg. 153/04, Section 49.1, Paragraph 1 is relied upon. Based on previous investigations and the current Phase Two ESA the following salt-related parameters were identified at concentrations greater than the Table 3 SCS at the Phase Two Property:

- EC in soil at 25-01, 25-02, 25-06, 25-07, 25-09, and 25-11;
- SAR in soil at 25-01, 25-06, 25-07, and 25-09;
- Chloride in groundwater at 25-06; and,
- Sodium in groundwater at 15-17, 25-03, and 25-06.

The source of the elevated EC and SAR in soil and chloride and sodium in groundwater is attributed to the application of de-icing salt on the adjacent right of ways (i.e. Highway 417, Carling Avenue, and Merivale Road) and the paved surfaces of the Site, for the purposes of safety for vehicular and pedestrian traffic during the winter months. As such, an exemption under O. Reg. 153/04, Section 49.1, Paragraph 1 is relied upon. No other potential sources of salt-related constituents were identified for the Phase Two Property.

Exemption under O. Reg. 153/04, Section 49.1, Paragraphs 2 and 3 are not required.

7. CONCLUSIONS

The Phase Two Property has an area of approximately 2.87 hectares (7.09 acres) in size. At the time of reporting, the Phase Two Property was comprised of the Westgate Shopping Centre and associated parking spaces surrounding the multi-tenant commercial mall. The Site may be accessed from Carling Avenue to the south and Merivale Road to the east. There are no on-Site surface water bodies. Surface water drainage from the building and parking areas are directed to the municipal stormwater sewer system.

The Phase Two Property is located in an area that is developed with a mix of commercial uses. The Phase Two Property is bounded by a hydro easement to the north and Highway 417; a residential and commercial tower to the east and substation across Merivale Road; Carling Avenue and commercial properties to the south; and a commercial tower to the west.

The results of a Phase One ESA conducted by Geosyntec in 2025 identified current and historical PCAs at the Site and surrounding lands within the Phase One Study Area. As a result of the PCAs, Geosyntec identified multiple areas of potential environmental concern (APECs) and related COPCs in soil and groundwater.

Based on the findings presented in the Phase One ESA, Geosyntec prepared a Phase Two SAP for the Site. The Phase Two SAP considered prior soil and groundwater investigation data collected from the Site and included a data gap analysis of available data relative to the identified APECs on the Site. Geosyntec conducted the Phase Two ESA soil and groundwater investigation between 11 March and 4 April 2025 that included: the advancement of 11 boreholes with seven completed as groundwater monitoring wells; development of seven newly installed and 11 existing monitoring wells; groundwater level monitoring of 21 monitoring wells; field screening; and the collection of soil and groundwater samples for laboratory analyses of applicable COPCs. The applicable generic Site Condition Standards for the Site are the '*Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition'* for Industrial/Commercial/ Community property uses and coarse textured- soils (Table 3 SCS).

Soil

The Phase Two ESA investigation did not identify any COCs greater than the Table 3 SCS in soil.

Groundwater

The Phase Two ESA investigation identified cis-1,2-DCE and PCE at concentrations greater than the Table 3 SCS at the exterior southwest portion of the Site, within the vicinity of the former on-Site dry-cleaning facility. Additionally, TCE and VC concentrations greater than the Table 3 SCS were also identified in past investigations in the vicinity of the former on-Site dry-cleaning facility. Several additional groundwater samples were collected in these areas with concentrations less than the Table 3 SCS such that the extent of the VOC impacts have been horizontally and vertically delineated.

The Phase Two ESA investigation identified a PHC F2 concentration greater than the Table 3 SCS (noted to have exceeded Table 3 SCS for PHC F2 in past investigations as well) at the exterior northeast portion of the Site, within the vicinity of the former hydrocarbon storage. Two additional groundwater samples were collected in these areas with concentrations less than the Table 3 SCS such that the extent of the PHC impacts have been horizontally and vertically delineated.

8. SIGNATURES

Geosyntec prepared this Phase Two ESA for the property located at 1309 Carling Avenue in Ottawa, Ontario in general accordance with the requirements stipulated in O. Reg. 153/04, as amended.

This Phase Two ESA was prepared and written by Kevin Kim, P.Eng., and reviewed by Scott Ambridge, M.A.Sc., P.Eng. and Berend Jan Velderman, M. Sc., P.Geo, for this Phase Two ESA.

Respectfully Submitted,

Geosyntec Consultants International, Inc.

Kevin Kim, P.Eng.
Environmental Engineer

Scott Ambridge, M.A.Sc., P.Eng., QP$_{ESA}$
Senior Engineer

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Tables

Table 1: Monitoring Well Construction Details
1309 Carling Ave, Ottawa, Ontario

Well ID	Installed by	Date Installed	Top of Riser Elevation (m amsl)	Ground Surface Elevation (m amsl)	Total Depth (m bgs)	Top Screen Depth (m bgs)	Bottom Screen Depth (m bgs)	Stick-up Interval (m ags)	Construction Material	Screen Slot Size	Well Diameter (mm)	Well Status
15-01	Golder - 2015/16	2015-10-09	74.81	74.9	6.1	3.05	6.1	--	Schedule 40 PVC	No. 10 (25mm)	32	Not Located
15-02	Golder - 2015/16	2015-10-08	74.065	74.07	6.1	3.05	6.1	--	Schedule 40 PVC	No. 10 (25mm)	32	Active
15-03	Golder - 2015/16	2015-10-07	73.987	73.92	6.1	3.05	6.1	--	Schedule 40 PVC	No. 10 (25mm)	32	Active
15-03A	Golder - 2015/16	2016-03-22	73.954	73.92	10.72	9.25	10.72	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
15-04	Golder - 2015/16	2015-10-13	73.937	74.08	12.8	9.7	12.8	--	Schedule 40 PVC	No. 10 (25mm)	32	Active
15-05	Golder - 2015/16	2015-10-07	73.824	73.93	6.1	3.05	6.1	--	Schedule 40 PVC	No. 10 (25mm)	32	Active
15-06	Golder - 2015/16	2015-10-07	73.91	73.96	4.57	1.52	4.57	--	Schedule 40 PVC	No. 10 (25mm)	32	Active
15-12	Golder - 2015/16	2016-06-06	70.416	70.416	3.05	1.52	3.05	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
15-13	Golder - 2015/16	2016-06-06	74.022	74.022	1.14	0.53	1.14	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
15-14	Golder - 2015/16	2016-06-06	73.762	73.89	6.4	4.88	6.4	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
15-15	Golder - 2015/16	2016-06-07	73.867	73.9	6.1	4.57	6.1	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
15-16	Golder - 2015/16	2016-06-06	73.885	74.05	6.1	4.57	6.1	--	Schedule 40 PVC	No. 10 (25mm)	51	Active
15-17	Golder - 2015/16	2016-06-07	73.961	74.12	7.32	5.79	7.32	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
15-18	Golder - 2015/16	2016-06-06	73.952	74.01	3.05	1.52	3.05	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
15-19	Golder - 2015/16	2016-06-06	74.311	74.43	4.26	2.74	4.26	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
25-02	Geosyntec - 2025	2025-03-17	73.791	--	6.1	3.05	6.1	--	Schedule 40 PVC	No. 10 (25mm)	38	Active
25-03	Geosyntec - 2025	2025-03-27	73.793	--	4.88	1.83	4.88	--	Schedule 40 PVC	No. 10 (25mm)	51	Active
25-04	Geosyntec - 2025	2025-03-24	74.015	--	3.66	0.61	3.66	--	Schedule 40 PVC	No. 10 (25mm)	32	Active
25-05	Geosyntec - 2025	2025-03-25	74.01	--	5.49	3.65	5.49	--	Schedule 40 PVC	No. 10 (25mm)	32	Active
25-06	Geosyntec - 2025	2025-03-20	73.599	--	6.1	2.71	5.76	--	Schedule 40 PVC	No. 10 (25mm)	51	Active
25-07	Geosyntec - 2025	2025-03-14	74.246	--	4.88	2.13	5.18	--	Schedule 40 PVC	No. 10 (25mm)	51	Active
25-08	Geosyntec - 2025	2025-03-11	73.884	--	6.1	3.05	6.1	--	Schedule 40 PVC	No. 10 (25mm)	51	Active

Notes:
m amsl - metres above mean sea level
m bgs - metres below ground surface
m ags - metres above ground surface

Table 2: Groundwater Elevations and Product Measurements
1309 Carling Ave, Ottawa, Ontario

Well ID	Monitoring Unit	Top Screen Depth (m bgs)	Bottom Screen Depth (m bgs)	Round	Measurement Date	Top of Riser (m amsl)	Depth to Water (m bTOC)	Groundwater Elevation (m amsl)	Depth to Free Product (m bTOC)	Product thickness (mm)
15-02	Till	3.05	6.1	2025-04	2025-04-11	74.065	4.578	69.487	0	0
15-03	Clay/Till	3.05	6.1	2025-04	2025-04-11	73.987	4.762	69.225	0	0
15-03A	Till	9.25	10.72	2025-04	2025-04-11	73.954	6.132	67.822	0	0
15-04	Till	9.7	12.8	2025-04	2025-04-11	73.937	6.139	67.798	0	0
15-05	Clay	3.05	6.1	2025-04	2025-04-11	73.824	5.272	68.552	0	0
15-06	Clay	1.52	4.57	2025-04	2025-04-11	73.91	3.357	70.553	0	0
15-12	Clay/Till	1.52	3.05	2025-04	2025-04-11	70.416	2.283	68.133	0	0
15-13	Fill	0.53	1.14	2025-04	2025-04-11	74.022	0.677	73.345	0	0
15-14	Clay	4.88	6.4	2025-04	2025-04-11	73.762	3.194	70.568	0	0
15-15	Clay/Till	4.57	6.1	2025-04	2025-04-11	73.867	2.647	71.22	0	0
15-16	Clay/Till	4.57	6.1	2025-04	2025-04-11	73.885	5.279	68.606	0	0
15-17	Till	5.79	7.32	2025-04	2025-04-11	73.961	4.454	69.507	0	0
15-18	Clay	1.52	3.05	2025-04	2025-04-11	73.952	1.469	72.483	0	0
15-19	Clay/Till	2.74	4.26	2025-04	2025-04-11	74.311	2.81	71.501	0	0
25-02	Clay	3.05	6.1	2025-04	2025-04-11	73.791	3.601	70.19	0	0
25-03	Clay	1.83	4.88	2025-04	2025-04-11	73.793	1.595	72.198	0	0
25-04	Clay	3.05	3.65	2025-04	2025-04-11	74.015	0.772	73.243	0	0
25-05	Clay	3.65	5.49	2025-04	2025-04-11	74.01	1.037	72.973	0	0
25-06	Clay	2.71	5.76	2025-04	2025-04-11	73.599	2.726	70.873	0	0
25-07	Clay	2.13	5.18	2025-04	2025-04-11	74.246	2.301	71.945	0	0
25-08	Clay	3.05	6.1	2025-04	2025-04-11	73.884	0.314	73.57	0	0

Notes:
m amsl - metres above mean sea level
m bgs - metres below ground surface
m bTOC - metres below Top of [PVC] Casing

Table 3A: Soil Sampling and Exceedance Summary
1309 Carling Ave, Ottawa, Ontario

Location	Sample ID	Date/Time	Depth from (m)	Depth to (m)	Sample Type	Sampling Summary	Exceedances
15-03	BH15-03 SA5	2015-10-07	1.88	2.44	Normal	BTEX, Metals, PAH, PCBs, PHCs, VOC	
15-03	DUP3	2015-10-07	1.88	2.44	Duplicate	BTEX, Metals, PAH, PCBs, PHCs, VOC	
15-11	BH15-11 SA1	2015-10-07	0.1	0.25	Normal	BTEX, Metals, PAH, PHCs, VOC	
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Sodium Absorption Ratio [20.0 -]
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Electrical Conductivity (Lab) [4.43 mS/cm], Sodium Absorption Ratio [29.0 -]
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Vanadium [98.8 µg/g], Electrical Conductivity (Lab) [2.96 mS/cm]
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	
25-03	25-03-SS4_7.5-9.5	2025-03-14	2.29	2.89	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Vanadium [109 µg/g]
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Cobalt [82.4 µg/g]
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Vanadium [100 µg/g]
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Electrical Conductivity (Lab) [2.21 mS/cm], Sodium Absorption Ratio [19.0 -]
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Vanadium [92.0 µg/g], Electrical Conductivity (Lab) [8.96 mS/cm], Sodium Absorption Ratio [95.0 -]
25-07	25-07-SS1_2.0-3.0	2025-03-14	0.61	0.914	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Electrical Conductivity (Lab) [1.72 mS/cm], Sodium Absorption Ratio [14.0 -]
25-07	25-07-SS3_7.5-9.5	2025-03-14	2.29	2.89	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Vanadium [104 µg/g], Electrical Conductivity (Lab) [4.56 mS/cm], Sodium Absorption Ratio [17.0 -]
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Electrical Conductivity (Lab) [1.86 mS/cm], Sodium Absorption Ratio [17.0 -]
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	BTEX, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Vanadium [101 µg/g]
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Electrical Conductivity (Lab) [2.04 mS/cm], Sodium Absorption Ratio [33.0 -]
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Electrical Conductivity (Lab) [3.14 mS/cm], Sodium Absorption Ratio [24.0 -]
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Vanadium [105 µg/g], Electrical Conductivity (Lab) [1.69 mS/cm]
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Electrical Conductivity (Lab) [2.92 mS/cm], Sodium Absorption Ratio [21.0 -]
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Electrical Conductivity (Lab) [3.37 mS/cm]
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Electrical Conductivity (Lab) [2.12 mS/cm]

1. SCS Standard: Table 3 - Full Depth Non-Potable GW - Ind/Cml/Cmy (Coarse Soil)
Cobalt - 80.0 µg/g
Electrical Conductivity (Lab) - 1.40 mS/cm
Sodium Absorption Ratio - 12.0 -
Vanadium - 86.0 µg/g

Location	Sample ID	Date/Time	Sample Type	Top Screen Depth (m)	Bottom Screen Depth (m)	Monitoring Unit	Sampling Summary	Exceedances
15-01	15-01	2016-03-08	Normal	3.05	6.1	Clay	BTEX, PHCs, VOC	
15-02	15-02	2015-10-14	Normal	3.05	6.1	Till	BTEX, PCBs, PHCs, VOC	
15-02	15-02	2016-03-23	Normal	3.05	6.1	Till	BTEX, VOC	
15-03	15-03	2015-10-14	Normal	3.05	6.1	Clay/Till	BTEX, PCBs, PHCs, VOC	Tetrachloroethylene (PCE) [2,700 µg/L], cis-1,2-dichloroethylene [590 µg/L], trans-1,2-dichloroethylene [7.50 µg/L], Vinyl chloride [52.0 µg/L], Trichloroethylene (TCE) [440 µg/L]
15-03	15-03	2016-03-08	Normal	3.05	6.1	Clay/Till	BTEX, VOC	Tetrachloroethylene (PCE) [1,600 µg/L], cis-1,2-dichloroethylene [750 µg/L], trans-1,2-dichloroethylene [11.0 µg/L], Vinyl chloride [54.0 µg/L], 1,1-dichloroethene [4.70 µg/L], Trichloroethylene (TCE) [320 µg/L]
15-03	DUP	2016-03-08	Duplicate	3.05	6.1	Clay/Till	BTEX, VOC	Tetrachloroethylene (PCE) [1,600 µg/L], cis-1,2-dichloroethylene [800 µg/L], trans-1,2-dichloroethylene [11.0 µg/L], Vinyl chloride [47.0 µg/L], 1,1-dichloroethene [3.60 µg/L], Trichloroethylene (TCE) [340 µg/L]
15-03	DUP3	2015-10-14	Duplicate	3.05	6.1	Clay/Till	BTEX, PCBs, PHCs, VOC	Tetrachloroethylene (PCE) [2,800 µg/L], cis-1,2-dichloroethylene [670 µg/L], trans-1,2-dichloroethylene [8.80 µg/L], Vinyl chloride [52.0 µg/L], Trichloroethylene (TCE) [540 µg/L]
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	BTEX, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Tetrachloroethylene (PCE) [188 µg/L], cis-1,2-dichloroethylene [230 µg/L]
15-03A	15-03A	2016-03-23	Normal	9.25	10.72	Till	BTEX, VOC	Tetrachloroethylene (PCE) [3.60 µg/L]
15-03A	15-03A DUP	2016-03-23	Duplicate	9.25	10.72	Till	BTEX, VOC	Tetrachloroethylene (PCE) [3.40 µg/L]
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	
15-04	15-04	2015-10-14	Normal	9.7	12.8	Till	BTEX, PHCs, VOC	
15-04	15-04	2016-03-07	Normal	9.7	12.8	Till	BTEX, VOC	
15-05	15-05	2016-03-08	Normal	3.05	6.1	Clay	BTEX, PHCs, VOC	
15-05	MW15-05	2025-03-27	Normal	3.05	6.1	Clay	BTEX, Geochem / Inorganics, PAH, PHCs, VOC	
15-06	15-06	2015-10-14	Normal	1.52	4.57	Clay	BTEX, PHCs	
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	
15-12	15-12	2016-06-14	Normal	1.52	3.05	Clay/Till	BTEX, VOC	
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	
15-14	15-14	2016-06-14	Normal	4.88	6.4	Clay	BTEX, VOC	Tetrachloroethylene (PCE) [6.60 µg/L], cis-1,2-dichloroethylene [16.0 µg/L], Vinyl chloride [0.67 µg/L], Trichloroethylene (TCE) [10.0 µg/L]
15-15	15-15	2016-06-14	Normal	4.57	6.1	Clay/Till	BTEX, VOC	Tetrachloroethylene (PCE) [7.70 µg/L], Trichloroethylene (TCE) [4.40 µg/L]
15-15	DUP1	2016-06-14	Duplicate	4.57	6.1	Clay/Till	BTEX, VOC	Tetrachloroethylene (PCE) [9.70 µg/L], Trichloroethylene (TCE) [5.40 µg/L]
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Tetrachloroethylene (PCE) [407 µg/L], cis-1,2-dichloroethylene [10.2 µg/L]
15-16	15-16	2016-06-14	Normal	4.57	6.1	Clay/Till	BTEX, VOC	Tetrachloroethylene (PCE) [3,400 µg/L], cis-1,2-dichloroethylene [1,100 µg/L], trans-1,2-dichloroethylene [16.0 µg/L], Vinyl chloride [9.20 µg/L], Trichloroethylene (TCE) [1,400 µg/L]
15-16	MW15-16	2025-04-04	Normal	4.57	6.1	Clay/Till	BTEX, Geochem / Inorganics, VOC	
15-17	15-17	2016-06-14	Normal	5.79	7.32	Till	BTEX, VOC	
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	Sodium [803,000 µg/L]
15-18	15-18	2016-06-14	Normal	1.52	3.05	Clay	BTEX, PHCs	
15-19	15-19	2016-06-14	Normal	2.74	4.26	Clay/Till	BTEX, PHCs	F2 (>C10-C16) [500 µg/L]
15-19	DUP2	2016-06-14	Duplicate	2.74	4.26	Clay/Till	BTEX, PHCs	F2 (>C10-C16) [520 µg/L]
15-19	MW15-19	2025-03-25	Normal	2.74	4.26	Clay/Till	BTEX, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	F2 (>C10-C16) [308 µg/L], F2 - Naphthalene [308 µg/L]
25-02	MW25-02	2025-04-03	Normal	3.05	6.1	Clay	BTEX, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Sodium [733,000 µg/L]
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	BTEX, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Chloride [5,940,000 µg/L], Sodium [2,790,000 µg/L]
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	BTEX, Geochem / Inorganics, Metals, PAH, PHCs, VOC	Chloride [5,930,000 µg/L], Sodium [2,780,000 µg/L]
25-07	DUP01	2025-03-25	Duplicate	2.13	5.18	Clay	BTEX, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	
25-07	MW25-07	2025-03-25	Normal	2.13	5.18	Clay	BTEX, Geochem / Inorganics, Metals, PAH, PCBs, PHCs, VOC	
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	BTEX, Cyanides, Geochem / Inorganics, Metals, PAH, PHCs, VOC	

1. SCS Standard: Table 3 - Full Depth Non-Potable GW (Coarse Grained)
1,1-dichloroethene - 1.60 µg/L
Chloride - 2,300,000 µg/L
F2 (>C10-C16) - 150 µg/L
F2 - Naphthalene - 150 µg/L
Sodium - 490,000 µg/L
Tetrachloroethylene (PCE) - 1.60 µg/L
Trichloroethylene (TCE) - 1.60 µg/L
Vinyl chloride - 0.50 µg/L
cis-1,2-dichloroethylene - 1.60 µg/L
trans-1,2-dichloroethylene - 1.60 µg/L

Parameter Group	Analyte	Maximum Concentration	SCS Standard	Exceedance	Location	Sample ID	Date/Time	Depth from (m)	Depth to (m)	Sample Type
BTEX	Xylene (m & p)	0.05 µg/g	No Standard	No	25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal
BTEX	Xylene Mixture	0.05 µg/g	26.0 µg/g	No	25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal
Geochem / Inorganics	Chloride	2,120 µg/g	No Standard	No	25-01	25-01-SS4_6-8	2025-03-18	1.83	2.44	Normal
Geochem / Inorganics	Electrical Conductivity (Lab)	8.96 mS/cm	1.40 mS/cm	Yes	25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal
Geochem / Inorganics	Sodium Absorption Ratio	95.0 -	12.0 -	Yes	25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal
Geochem / Inorganics	Sulphate	72.0 µg/g	No Standard	No	25-01	25-01-SS4_6-8	2025-03-18	1.83	2.44	Normal
Geochem / Inorganics	Sulphide	0.02 %	No Standard	No	25-01	25-01-SS4_6-8	2025-03-18	1.83	2.44	Normal
Geochem / Inorganics	pH (Lab)	10.6 pH Units	No Standard	No	25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal
Metals	Arsenic	7.00 µg/g	18.0 µg/g	No	25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal
Metals	Barium	404 µg/g	670 µg/g	No	25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal
Metals	Beryllium	1.00 µg/g	8.00 µg/g	No	25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal
Metals	Boron	13.0 µg/g	120 µg/g	No	25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal
Metals	Boron (hot water soluble)	0.50 µg/g	2.00 µg/g	No	25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal
Metals	Chromium (total)	136 µg/g	160 µg/g	No	25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal
Metals	Cobalt	82.4 µg/g	80.0 µg/g	Yes	25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal
Metals	Copper	47.0 µg/g	230 µg/g	No	25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal
Metals	Lead	49.0 µg/g	120 µg/g	No	25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal
Metals	Molybdenum	5.00 µg/g	40.0 µg/g	No	25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal
Metals	Nickel	66.0 µg/g	270 µg/g	No	25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal
Metals	Silver	1.40 µg/g	40.0 µg/g	No	25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal
Metals	Uranium	1.30 µg/g	33.0 µg/g	No	25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal
Metals	Vanadium	109 µg/g	86.0 µg/g	Yes	25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal
Metals	Zinc	119 µg/g	340 µg/g	No	25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal
PAH	Anthracene	0.05 µg/g	0.67 µg/g	No	25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal
PAH	Benz(a)anthracene	0.10 µg/g	0.96 µg/g	No	25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal
PAH	Benzo(a) pyrene	0.11 µg/g	0.30 µg/g	No	25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal
PAH	Benzo(b)fluoranthene	0.12 µg/g	0.96 µg/g	No	25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal
PAH	Benzo(g,h,i)perylene	0.06 µg/g	9.60 µg/g	No	25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal
PAH	Benzo(k)fluoranthene	0.06 µg/g	0.96 µg/g	No	25-07	DUP01	2025-03-14	0.61	0.914	Duplicate
PAH	Chrysene	0.15 µg/g	9.60 µg/g	No	25-07	DUP01	2025-03-14	0.61	0.914	Duplicate
PAH	Fluoranthene	0.28 µg/g	9.60 µg/g	No	25-07	DUP01	2025-03-14	0.61	0.914	Duplicate
PAH	Phenanthrene	0.18 µg/g	12.0 µg/g	No	25-07	DUP01	2025-03-14	0.61	0.914	Duplicate
PAH	Pyrene	0.23 µg/g	96.0 µg/g	No	25-07	DUP01	2025-03-14	0.61	0.914	Duplicate
PHCs	F3 (>C16-C34)	1,690 µg/g	1,700 µg/g	No	25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal
PHCs	F3 (>C16-C34) - PAH	1,690 µg/g	1,700 µg/g	No	25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal
PHCs	F4 (>C34-C50)	1,770 µg/g	3,300 µg/g	No	25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal
VOC	Tetrachloroethylene (PCE)	2.30 µg/g	4.50 µg/g	No	15-16	15-16 SA8	2016-06-06	5.66	N/A	Normal
VOC	Trichloroethylene (TCE)	0.51 µg/g	0.91 µg/g	No	15-16	15-16 SA8	2016-06-06	5.66	N/A	Normal
VOC	cis-1,2-dichloroethylene	0.33 µg/g	55.0 µg/g	No	15-16	15-16 SA8	2016-06-06	5.66	N/A	Normal

1. SCS Standard: Table 3 - Full Depth Non-Potable GW - Ind/Cml/Cmy (Coarse Soil)

Parameter Group	Analyte	Maximum Concentration	SCS Standard	Exceedance	Location	Sample ID	Date/Time	Sample Type	Top Screen Depth (m)	Bottom Screen Depth (m)	Monitoring Unit
BTEX	Benzene	0.57 µg/L	44.0 µg/L	No	15-03A	15-03A DUP	2016-03-23	Duplicate	9.25	10.72	Till
BTEX	Ethylbenzene	0.72 µg/L	2,300 µg/L	No	15-19	DUP2	2016-06-14	Duplicate	2.74	4.26	Clay/Till
BTEX	Toluene	0.41 µg/L	18,000 µg/L	No	15-02	15-02	2015-10-14	Normal	3.05	6.1	Till
BTEX	Xylene (m & p)	0.84 µg/L	No Standard	No	15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till
BTEX	Xylene (o)	0.34 µg/L	No Standard	No	15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till
BTEX	Xylene Mixture	1.18 µg/L	4,200 µg/L	No	15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till
Geochem / Inorganics	Chloride	5,940,000 µg/L	2,300,000 µg/L	Yes	25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay
Geochem / Inorganics	Sodium	2,790,000 µg/L	490,000 µg/L	Yes	25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay
Geochem / Inorganics	pH (Lab)	7.79 pH Units	No Standard	No	15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till
Metals	Arsenic	4.10 µg/L	1,900 µg/L	No	25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay
Metals	Barium	816 µg/L	29,000 µg/L	No	25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay
Metals	Boron	224 µg/L	45,000 µg/L	No	15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till
Metals	Chromium (total)	3.90 µg/L	810 µg/L	No	25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay
Metals	Cobalt	4.26 µg/L	66.0 µg/L	No	25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay
Metals	Copper	1.70 µg/L	87.0 µg/L	No	25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay
Metals	Lead	0.61 µg/L	25.0 µg/L	No	15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till
Metals	Molybdenum	30.9 µg/L	9,200 µg/L	No	15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till
Metals	Nickel	19.7 µg/L	490 µg/L	No	25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay
Metals	Uranium	10.3 µg/L	420 µg/L	No	25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay
Metals	Vanadium	10.5 µg/L	250 µg/L	No	25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay
Metals	Zinc	8.70 µg/L	1,100 µg/L	No	25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay
PAH	Anthracene	0.11 µg/L	2.40 µg/L	No	15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay
PAH	Benzo(b)fluoranthene	0.22 µg/L	0.75 µg/L	No	15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay
PAH	Chrysene	0.44 µg/L	1.00 µg/L	No	15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay
PAH	Fluoranthene	0.44 µg/L	130 µg/L	No	15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay
PAH	Phenanthrene	0.33 µg/L	580 µg/L	No	15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay
PAH	Pyrene	0.33 µg/L	68.0 µg/L	No	15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay
PHCs	F1 (C6-C10)	470 µg/L	750 µg/L	No	15-03	DUP3	2015-10-14	Duplicate	3.05	6.1	Clay/Till
PHCs	F1 (C6-C10) minus BTEX	106 µg/L	750 µg/L	No	15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till
PHCs	F2 (>C10-C16)	520 µg/L	150 µg/L	Yes	15-19	DUP2	2016-06-14	Duplicate	2.74	4.26	Clay/Till
PHCs	F2 - Naphthalene	308 µg/L	150 µg/L	Yes	15-19	MW15-19	2025-03-25	Normal	2.74	4.26	Clay/Till
PHCs	F3 (>C16-C34)	110 µg/L	500 µg/L	No	15-19	15-19	2016-06-14	Normal	2.74	4.26	Clay/Till
VOC	1,1-dichloroethene	4.70 µg/L	1.60 µg/L	Yes	15-03	15-03	2016-03-08	Normal	3.05	6.1	Clay/Till
VOC	Chloroform	0.35 µg/L	2.40 µg/L	No	15-04	15-04	2015-10-14	Normal	9.7	12.8	Till
VOC	Tetrachloroethylene (PCE)	3,400 µg/L	1.60 µg/L	Yes	15-16	15-16	2016-06-14	Normal	4.57	6.1	Clay/Till
VOC	Trichloroethylene (TCE)	1,400 µg/L	1.60 µg/L	Yes	15-16	15-16	2016-06-14	Normal	4.57	6.1	Clay/Till
VOC	Vinyl chloride	54.0 µg/L	0.50 µg/L	Yes	15-03	15-03	2016-03-08	Normal	3.05	6.1	Clay/Till
VOC	cis-1,2-dichloroethylene	1,100 µg/L	1.60 µg/L	Yes	15-16	15-16	2016-06-14	Normal	4.57	6.1	Clay/Till
VOC	trans-1,2-dichloroethylene	16.0 µg/L	1.60 µg/L	Yes	15-16	15-16	2016-06-14	Normal	4.57	6.1	Clay/Till

1. SCS Standard: Table 3 - Full Depth Non-Potable GW (Coarse Grained)

Location	Sample ID	Date/Time	Depth from (m)	Depth to (m)	Sample Type	Method Type	Method Name	Analysis Date
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Inorganic	INOR-93-6007	2025-03-25
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Inorganic	INOR-93-6052	2025-03-26
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Inorganic	INOR-93-6075	2025-03-24
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Metals	INOR-93-6068	2025-03-26
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Metals	MET-93-6103	2025-03-24
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Metals	MET-93-6104	2025-03-24
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Organics	ORG-91-5113	2025-03-24
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Organics	VOL-91-5009	2025-03-25
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	PAH	ORG-91-5106	2025-03-26
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	PAH	VOL-91-5009	2025-03-25
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Volatile Organics	VOL-91- 5001	2025-03-24
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Volatile Organics	VOL-91-5002	2025-03-24
25-01	25-01-SS2_2-4	2025-03-18	0.61	1.22	Normal	Volatile Organics	VOL-91-5009	2025-03-24
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Inorganic	INOR-93-6007	2025-03-25
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Inorganic	INOR-93-6052	2025-03-26
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Inorganic	INOR-93-6075	2025-03-24
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Metals	INOR-93-6068	2025-03-26
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Metals	MET-93-6103	2025-03-24
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Metals	MET-93-6104	2025-03-24
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Organics	ORG-91-5113	2025-03-24
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Organics	VOL-91-5009	2025-03-25
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	PAH	ORG-91-5106	2025-03-26
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	PAH	VOL-91-5009	2025-03-25
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Volatile Organics	VOL-91- 5001	2025-03-24
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Volatile Organics	VOL-91-5002	2025-03-24
25-01	25-01-SS3_4-6	2025-03-18	1.22	1.83	Normal	Volatile Organics	VOL-91-5009	2025-03-24
25-01	25-01-SS4_6-8	2025-03-18	1.83	2.44	Normal	Inorganic	INOR 93-6031	2025-03-24
25-01	25-01-SS4_6-8	2025-03-18	1.83	2.44	Normal	Inorganic	INOR-93-6004	2025-03-26
25-01	25-01-SS4_6-8	2025-03-18	1.83	2.44	Normal	Inorganic	INOR-93-6036	2025-03-24
25-01	25-01-SS4_6-8	2025-03-18	1.83	2.44	Normal	Inorganic	INOR-93-6066	2025-03-27
25-01	25-01-SS4_6-8	2025-03-18	1.83	2.44	Normal	Inorganic	INOR-93-6075	2025-03-24
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Inorganic	INOR-93-6007	2025-03-25
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Inorganic	INOR-93-6052	2025-03-25
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Inorganic	INOR-93-6075	2025-03-20
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Metals	INOR-93-6068	2025-03-25
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Metals	MET-93-6103	2025-03-22
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Metals	MET-93-6104	2025-03-21
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Moisture	VOL-91-5009	2025-03-21
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Organics	ORG-91-5113	2025-03-24
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Organics	VOL-91-5009	2025-03-24
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	PAH	ORG-91-5106	2025-03-25
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Volatile Organics	VOL-91- 5001	2025-03-24
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Volatile Organics	VOL-91-5002	2025-03-24
25-02	25-02-SS4_6.5-8.5	2025-03-17	1.98	2.59	Normal	Volatile Organics	VOL-91-5009	2025-03-24
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Inorganic	INOR-93-6007	2025-03-21
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Inorganic	INOR-93-6052	2025-03-24
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Inorganic	INOR-93-6075	2025-03-19
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Metals	INOR-93-6068	2025-03-25
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Metals	MET 93 -6103	2025-03-20
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Metals	MET-93-6103	2025-03-20
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Metals	MET-93-6104	2025-03-20
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Organics	VOL-91-5009	2025-03-21
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	PAH	ORG-91-5106	2025-03-22
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	PAH	VOL-91-5009	2025-03-20
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Volatile Organics	VOL-91- 5001	2025-03-22
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Volatile Organics	VOL-91-5002	2025-03-22

Location	Sample ID	Date/Time	Depth from (m)	Depth to (m)	Sample Type	Method Type	Method Name	Analysis Date
25-03	25-03-SS1_0.5-2.5	2025-03-14	0.5	2.5	Normal	Volatile Organics	VOL-91-5009	2025-03-22
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Inorganic	INOR-93-6007	2025-03-21
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Inorganic	INOR-93-6052	2025-03-24
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Inorganic	INOR-93-6075	2025-03-19
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Metals	INOR-93-6068	2025-03-25
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Metals	MET 93 -6103	2025-03-20
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Metals	MET-93-6103	2025-03-20
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Metals	MET-93-6104	2025-03-20
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Organics	VOL-91-5009	2025-03-21
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	PAH	ORG-91-5106	2025-03-22
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	PAH	VOL-91-5009	2025-03-20
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Volatile Organics	VOL-91- 5001	2025-03-22
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Volatile Organics	VOL-91-5002	2025-03-22
25-03	25-03-SS4_7.5-9.5	2025-03-14	7.5	9.5	Normal	Volatile Organics	VOL-91-5009	2025-03-22
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Inorganic	INOR-93-6007	2025-04-03
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Inorganic	INOR-93-6052	2025-04-04
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Inorganic	INOR-93-6075	2025-04-02
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Metals	INOR-93-6068	2025-04-03
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Metals	MET 93 -6103	2025-04-02
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Metals	MET-93-6103	2025-04-02
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Metals	MET-93-6104	2025-04-02
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Organics	VOL-91-5009	2025-04-04
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	PAH	ORG-91-5106	2025-04-04
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	PAH	VOL-91-5009	2025-04-03
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Volatile Organics	VOL-91- 5001	2025-04-03
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Volatile Organics	VOL-91-5002	2025-04-03
25-04	25-04-SS1_0.5-1	2025-03-25	0.152	0.304	Normal	Volatile Organics	VOL-91-5009	2025-04-03
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Inorganic	INOR-93-6007	2025-04-03
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Inorganic	INOR-93-6052	2025-04-04
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Inorganic	INOR-93-6075	2025-04-02
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Metals	INOR-93-6068	2025-04-03
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Metals	MET 93 -6103	2025-04-02
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Metals	MET-93-6103	2025-04-02
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Metals	MET-93-6104	2025-04-02
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Organics	VOL-91-5009	2025-04-04
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	PAH	ORG-91-5106	2025-04-04
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	PAH	VOL-91-5009	2025-04-03
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Volatile Organics	VOL-91- 5001	2025-04-03
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Volatile Organics	VOL-91-5002	2025-04-03
25-04	25-04-SS3_3-5	2025-03-25	0.914	1.52	Normal	Volatile Organics	VOL-91-5009	2025-04-03
25-04	25-04-SS5_7-9	2025-03-25	2.13	2.74	Normal	Inorganic	INOR 93-6031	2025-04-02
25-04	25-04-SS5_7-9	2025-03-25	2.13	2.74	Normal	Inorganic	INOR-93-6004	2025-04-04
25-04	25-04-SS5_7-9	2025-03-25	2.13	2.74	Normal	Inorganic	INOR-93-6036	2025-04-02
25-04	25-04-SS5_7-9	2025-03-25	2.13	2.74	Normal	Inorganic	INOR-93-6066	2025-04-07
25-04	25-04-SS5_7-9	2025-03-25	2.13	2.74	Normal	Inorganic	INOR-93-6075	2025-04-02
25-04	25-04-SS5_7-9	2025-03-25	2.13	2.74	Normal	Moisture	ORG-91-5009	2025-04-03
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Inorganic	INOR-93-6007	2025-04-03
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Inorganic	INOR-93-6052	2025-04-04
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Inorganic	INOR-93-6075	2025-04-02
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Metals	INOR-93-6068	2025-04-03
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Metals	MET 93 -6103	2025-04-02
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Metals	MET-93-6103	2025-04-02
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Metals	MET-93-6104	2025-04-02
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Organics	ORG-91-5113	2025-04-04
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Organics	VOL-91-5009	2025-04-04
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	PAH	ORG-91-5106	2025-04-04

Location	Sample ID	Date/Time	Depth from (m)	Depth to (m)	Sample Type	Method Type	Method Name	Analysis Date
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	PAH	VOL-91-5009	2025-04-03
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Volatile Organics	VOL-91- 5001	2025-04-03
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Volatile Organics	VOL-91-5002	2025-04-03
25-05	25-05-SS1_1-1.5	2025-03-27	0.304	0.457	Normal	Volatile Organics	VOL-91-5009	2025-04-03
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Inorganic	INOR-93-6007	2025-04-03
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Inorganic	INOR-93-6052	2025-04-04
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Inorganic	INOR-93-6075	2025-04-02
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Metals	INOR-93-6068	2025-04-03
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Metals	MET 93 -6103	2025-04-02
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Metals	MET-93-6103	2025-04-02
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Metals	MET-93-6104	2025-04-02
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Organics	ORG-91-5113	2025-04-04
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Organics	VOL-91-5009	2025-04-04
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	PAH	ORG-91-5106	2025-04-04
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	PAH	VOL-91-5009	2025-04-03
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Volatile Organics	VOL-91- 5001	2025-04-03
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Volatile Organics	VOL-91-5002	2025-04-03
25-05	25-05-SS3_3.5-5.5	2025-03-27	1.07	1.68	Normal	Volatile Organics	VOL-91-5009	2025-04-03
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Inorganic	INOR-93-6007	2025-03-27
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Inorganic	INOR-93-6052	2025-03-28
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Inorganic	INOR-93-6075	2025-03-26
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Metals	INOR-93-6068	2025-03-27
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Metals	MET-93-6103	2025-03-27
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Metals	MET-93-6104	2025-03-26
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Moisture	VOL-91-5009	2025-03-26
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Organics	ORG-91-5113	2025-03-28
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Organics	VOL-91-5009	2025-03-27
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	PAH	ORG-91-5106	2025-03-28
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Volatile Organics	VOL-91- 5001	2025-03-25
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Volatile Organics	VOL-91-5002	2025-03-25
25-06	25-06-SS1_0-2	2025-03-20	0	0.61	Normal	Volatile Organics	VOL-91-5009	2025-03-25
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6007	2025-03-27
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6052	2025-03-28
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6075	2025-03-26
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	INOR-93-6068	2025-03-27
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	MET-93-6103	2025-03-28
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	MET-93-6104	2025-03-26
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Moisture	VOL-91-5009	2025-03-26
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Organics	VOL-91-5009	2025-03-27
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	PAH	ORG-91-5106	2025-03-28
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91- 5001	2025-03-25
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91-5002	2025-03-25
25-06	25-06-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91-5009	2025-03-25
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Inorganic	INOR-93-6007	2025-03-21
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Inorganic	INOR-93-6052	2025-03-24
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Inorganic	INOR-93-6075	2025-03-19
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Metals	INOR-93-6068	2025-03-25
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Metals	MET 93 -6103	2025-03-20
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Metals	MET-93-6103	2025-03-20
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Metals	MET-93-6104	2025-03-20
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Organics	ORG-91-5113	2025-03-24
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Organics	VOL-91-5009	2025-03-21
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	PAH	ORG-91-5106	2025-03-22
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	PAH	VOL-91-5009	2025-03-20
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Volatile Organics	VOL-91- 5001	2025-03-22
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Volatile Organics	VOL-91-5002	2025-03-22

Location	Sample ID	Date/Time	Depth from (m)	Depth to (m)	Sample Type	Method Type	Method Name	Analysis Date
25-07	25-07-SS1_2.0-3.0	2025-03-14	2	3	Normal	Volatile Organics	VOL-91-5009	2025-03-22
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Inorganic	INOR-93-6007	2025-03-21
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Inorganic	INOR-93-6052	2025-03-24
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Inorganic	INOR-93-6075	2025-03-19
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Metals	INOR-93-6068	2025-03-25
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Metals	MET 93 -6103	2025-03-20
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Metals	MET-93-6103	2025-03-20
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Metals	MET-93-6104	2025-03-20
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Organics	ORG-91-5113	2025-03-24
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Organics	VOL-91-5009	2025-03-21
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	PAH	ORG-91-5106	2025-03-22
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	PAH	VOL-91-5009	2025-03-20
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Volatile Organics	VOL-91- 5001	2025-03-22
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Volatile Organics	VOL-91-5002	2025-03-22
25-07	25-07-SS3_7.5-9.5	2025-03-14	7.5	9.5	Normal	Volatile Organics	VOL-91-5009	2025-03-22
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Inorganic	INOR-93-6007	2025-03-21
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Inorganic	INOR-93-6052	2025-03-24
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Inorganic	INOR-93-6075	2025-03-19
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Metals	INOR-93-6068	2025-03-25
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Metals	MET 93 -6103	2025-03-20
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Metals	MET-93-6103	2025-03-20
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Metals	MET-93-6104	2025-03-20
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Organics	ORG-91-5113	2025-03-24
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Organics	VOL-91-5009	2025-03-21
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	PAH	ORG-91-5106	2025-03-22
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	PAH	VOL-91-5009	2025-03-20
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Volatile Organics	VOL-91- 5001	2025-03-22
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Volatile Organics	VOL-91-5002	2025-03-22
25-07	DUP01	2025-03-14	0.61	0.914	Duplicate	Volatile Organics	VOL-91-5009	2025-03-22
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	Metals	INOR-93-6068	2025-03-18
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	Metals	MET-93-6103	2025-03-17
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	Metals	MET-93-6104	2025-03-17
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	Organics	VOL-91-5009	2025-03-19
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	PAH	ORG-91-5106	2025-03-20
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	PAH	VOL-91-5009	2025-03-19
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	Volatile Organics	VOL-91- 5001	2025-03-18
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	Volatile Organics	VOL-91-5002	2025-03-18
25-08	25-08-SS1_2.5-4.5	2025-03-12	0.762	1.38	Normal	Volatile Organics	VOL-91-5009	2025-03-18
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Inorganic	INOR-93-6007	2025-03-27
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Inorganic	INOR-93-6052	2025-03-28
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Inorganic	INOR-93-6075	2025-03-26
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Metals	INOR-93-6068	2025-03-27
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Metals	MET-93-6103	2025-03-28
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Metals	MET-93-6104	2025-03-26
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Moisture	VOL-91-5009	2025-03-26
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Organics	VOL-91-5009	2025-03-27
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	PAH	ORG-91-5106	2025-03-28
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Volatile Organics	VOL-91- 5001	2025-03-25
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Volatile Organics	VOL-91-5002	2025-03-25
25-09	25-09-SS1_0-2	2025-03-20	0	0.61	Normal	Volatile Organics	VOL-91-5009	2025-03-25
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6007	2025-03-27
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6052	2025-03-28
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6075	2025-03-26
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	INOR-93-6068	2025-03-27
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	MET-93-6103	2025-03-28
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	MET-93-6104	2025-03-26

Location	Sample ID	Date/Time	Depth from (m)	Depth to (m)	Sample Type	Method Type	Method Name	Analysis Date
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Moisture	VOL-91-5009	2025-03-26
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Organics	VOL-91-5009	2025-03-27
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	PAH	ORG-91-5106	2025-03-28
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91- 5001	2025-03-25
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91-5002	2025-03-25
25-09	25-09-SS2_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91-5009	2025-03-25
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Inorganic	INOR-93-6007	2025-03-27
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Inorganic	INOR-93-6052	2025-03-28
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Inorganic	INOR-93-6075	2025-03-26
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Metals	INOR-93-6068	2025-03-27
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Metals	MET-93-6103	2025-03-28
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Metals	MET-93-6104	2025-03-26
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Moisture	VOL-91-5009	2025-03-26
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Organics	VOL-91-5009	2025-03-27
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	PAH	ORG-91-5106	2025-03-28
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Volatile Organics	VOL-91- 5001	2025-03-25
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Volatile Organics	VOL-91-5002	2025-03-25
25-09	25-09-SS4_7.5-9.5	2025-03-20	2.29	2.89	Normal	Volatile Organics	VOL-91-5009	2025-03-25
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Inorganic	INOR-93-6007	2025-03-27
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Inorganic	INOR-93-6052	2025-03-28
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Inorganic	INOR-93-6075	2025-03-26
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Metals	INOR-93-6068	2025-03-27
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Metals	MET-93-6103	2025-03-28
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Metals	MET-93-6104	2025-03-26
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Moisture	VOL-91-5009	2025-03-26
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Organics	VOL-91-5009	2025-03-27
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	PAH	ORG-91-5106	2025-03-28
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Volatile Organics	VOL-91- 5001	2025-03-25
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Volatile Organics	VOL-91-5002	2025-03-25
25-09	DUP02	2025-03-20	0.76	1.37	Duplicate	Volatile Organics	VOL-91-5009	2025-03-25
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6007	2025-03-27
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6052	2025-03-28
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Inorganic	INOR-93-6075	2025-03-26
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	INOR-93-6068	2025-03-27
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	MET-93-6103	2025-03-28
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Metals	MET-93-6104	2025-03-26
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Moisture	VOL-91-5009	2025-03-26
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Organics	VOL-91-5009	2025-03-27
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	PAH	ORG-91-5106	2025-03-28
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91- 5001	2025-03-25
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91-5002	2025-03-25
25-10	25-10-SS1_2.5-4.5	2025-03-20	0.76	1.37	Normal	Volatile Organics	VOL-91-5009	2025-03-25
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Inorganic	INOR-93-6007	2025-03-27
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Inorganic	INOR-93-6052	2025-03-28
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Inorganic	INOR-93-6075	2025-03-26
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Metals	INOR-93-6068	2025-03-27
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Metals	MET-93-6103	2025-03-28
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Metals	MET-93-6104	2025-03-26
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Moisture	VOL-91-5009	2025-03-26
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Organics	VOL-91-5009	2025-03-27
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	PAH	ORG-91-5106	2025-03-28
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Volatile Organics	VOL-91- 5001	2025-03-25
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Volatile Organics	VOL-91-5002	2025-03-25
25-10	DUP04	2025-03-20	0.76	1.35	Duplicate	Volatile Organics	VOL-91-5009	2025-03-25
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Inorganic	INOR-93-6007	2025-03-27
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Inorganic	INOR-93-6052	2025-03-28

Location	Sample ID	Date/Time	Depth from (m)	Depth to (m)	Sample Type	Method Type	Method Name	Analysis Date
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Inorganic	INOR-93-6075	2025-03-26
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Metals	INOR-93-6068	2025-03-26
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Metals	MET-93-6103	2025-03-28
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Metals	MET-93-6104	2025-03-26
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Moisture	VOL-91-5009	2025-03-27
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Organics	ORG-91-5113	2025-03-28
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Organics	VOL-91-5009	2025-03-27
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	PAH	ORG-91-5106	2025-03-28
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Volatile Organics	VOL-91- 5001	2025-03-28
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Volatile Organics	VOL-91-5002	2025-03-28
25-11	25-11-SS1_1-2	2025-03-21	0.305	0.61	Normal	Volatile Organics	VOL-91-5009	2025-03-28
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Inorganic	INOR-93-6007	2025-03-27
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Inorganic	INOR-93-6052	2025-03-28
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Inorganic	INOR-93-6075	2025-03-26
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Metals	INOR-93-6068	2025-03-26
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Metals	MET-93-6103	2025-03-28
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Metals	MET-93-6104	2025-03-26
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Moisture	VOL-91-5009	2025-03-27
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Organics	ORG-91-5113	2025-03-28
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Organics	VOL-91-5009	2025-03-27
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	PAH	ORG-91-5106	2025-03-28
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Volatile Organics	VOL-91- 5001	2025-03-28
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Volatile Organics	VOL-91-5002	2025-03-28
25-11	25-11-SS6_10-12	2025-03-21	3.05	3.66	Normal	Volatile Organics	VOL-91-5009	2025-03-28

Location	Sample ID	Date/Time	Sample Type	Top Screen Depth (m)	Bottom Screen Depth (m)	Monitoring Unit	Method Type	Method Name	Analysis Date
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	Inorganic	INOR-93-6000	2025-03-31
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	Inorganic	INOR-93-6004	2025-03-31
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	Metals	INOR-93-6073	2025-04-01
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	Metals	MET-121-6107	2025-04-01
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	Metals	MET-93-6103	2025-03-31
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	Organics	VOL-91- 5001	2025-04-04
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	Organics	VOL-91-5010	2025-04-02
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	PAH	ORG-91-5105	2025-04-03
15-03	MW15-03	2025-03-26	Normal	3.05	6.1	Clay/Till	Volatile Organics	VOL-91-5001	2025-04-04
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Inorganic	INOR-93-6000	2025-04-02
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Inorganic	INOR-93-6004	2025-04-01
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Inorganic	INOR-93-6052	2025-04-03
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Inorganic	INOR-93-6073	2025-04-04
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Inorganic	MET-121-6100 & MET-121-6107	2025-04-03
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Inorganic	MET-93-6103	2025-04-02
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Organics	ORG-91-5112	2025-04-04
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Organics	VOL-91- 5001	2025-04-03
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Organics	VOL-91-5010	2025-04-03
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	PAH	ORG-91-5105	2025-04-04
15-03A	MW15-03A	2025-03-28	Normal	9.25	10.72	Till	Volatile Organics	VOL-91-5001	2025-04-03
15-05	MW15-05	2025-03-27	Normal	3.05	6.1	Clay	Organics	VOL-91- 5001	2025-04-05
15-05	MW15-05	2025-03-27	Normal	3.05	6.1	Clay	Organics	VOL-91-5010	2025-04-07
15-05	MW15-05	2025-03-27	Normal	3.05	6.1	Clay	PAH	ORG-91-5105	2025-04-07
15-05	MW15-05	2025-03-27	Normal	3.05	6.1	Clay	Volatile Organics	VOL-91-5001	2025-04-05
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Inorganic	INOR-93-6000	2025-04-08
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Inorganic	INOR-93-6004	2025-04-08
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Inorganic	INOR-93-6052	2025-04-09
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Inorganic	INOR-93-6073	2025-04-08
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Inorganic	MET-121-6100 & MET-121-6107	2025-04-15
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Inorganic	MET-93-6103	2025-04-07
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Organics	VOL-91- 5001	2025-04-09
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Organics	VOL-91-5010	2025-04-09
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	PAH	ORG-91-5105	2025-04-10
15-06	MW15-06	2025-04-04	Normal	1.52	4.57	Clay	Volatile Organics	VOL-91-5001	2025-04-09
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Inorganic	INOR-93-6000	2025-04-07
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Inorganic	INOR-93-6004	2025-04-07
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Inorganic	INOR-93-6052	2025-04-09
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Inorganic	INOR-93-6073	2025-04-07
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Inorganic	MET-121-6100 & MET-121-6107	2025-04-15
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Inorganic	MET-93-6103	2025-04-07
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Organics	VOL-91- 5001	2025-04-09
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Organics	VOL-91-5010	2025-04-09
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	PAH	ORG-91-5105	2025-04-10
15-12	MW15-12	2025-04-04	Normal	1.52	3.05	Clay/Till	Volatile Organics	VOL-91-5001	2025-04-09
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Inorganic	INOR-93-6000	2025-04-02
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Inorganic	INOR-93-6004	2025-04-01
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Inorganic	INOR-93-6052	2025-04-04
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Inorganic	INOR-93-6073	2025-04-04
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Inorganic	MET-121-6100 & MET-121-6107	2025-04-03
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Inorganic	MET-93-6103	2025-04-03
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Organics	VOL-91- 5001	2025-04-05
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Organics	VOL-91-5010	2025-04-07
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	PAH	ORG-91-5105	2025-04-07
15-15	MW15-15	2025-03-27	Normal	4.57	6.1	Clay/Till	Volatile Organics	VOL-91-5001	2025-04-05
15-16	MW15-16	2025-04-04	Normal	4.57	6.1	Clay/Till	Organics	VOL-91-5001	2025-04-09
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Inorganic	INOR-93-6000	2025-04-02

Location	Sample ID	Date/Time	Sample Type	Top Screen Depth (m)	Bottom Screen Depth (m)	Monitoring Unit	Method Type	Method Name	Analysis Date
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Inorganic	INOR-93-6004	2025-04-01
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Inorganic	INOR-93-6052	2025-04-03
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Inorganic	INOR-93-6073	2025-04-04
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Inorganic	MET-121-6100 & MET-121-6107	2025-04-03
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Inorganic	MET-93-6103	2025-04-02
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Organics	ORG-91-5112	2025-04-04
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Organics	VOL-91- 5001	2025-04-03
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Organics	VOL-91-5010	2025-04-03
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	PAH	ORG-91-5105	2025-04-04
15-17	MW15-17	2025-03-28	Normal	5.79	7.32	Till	Volatile Organics	VOL-91-5001	2025-04-03
15-19	MW15-19	2025-03-25	Normal	2.74	4.26	Clay/Till	Inorganic	MET-121-6100 & MET-121-6107	2025-03-27
15-19	MW15-19	2025-03-25	Normal	2.74	4.26	Clay/Till	Organics	ORG-91-5112	2025-04-02
15-19	MW15-19	2025-03-25	Normal	2.74	4.26	Clay/Till	Organics	VOL-91- 5001	2025-04-02
15-19	MW15-19	2025-03-25	Normal	2.74	4.26	Clay/Till	Organics	VOL-91-5010	2025-04-01
15-19	MW15-19	2025-03-25	Normal	2.74	4.26	Clay/Till	PAH	ORG-91-5105	2025-04-01
15-19	MW15-19	2025-03-25	Normal	2.74	4.26	Clay/Till	Volatile Organics	VOL-91-5001	2025-04-02
25-02	MW25-02	2025-04-03	Normal	3.05	6.1	Clay	Inorganic	MET-121-6100 & MET-121-6107	2025-04-08
25-02	MW25-02	2025-04-03	Normal	3.05	6.1	Clay	Organics	ORG-91-5112	2025-04-11
25-02	MW25-02	2025-04-03	Normal	3.05	6.1	Clay	Organics	VOL-91- 5001	2025-04-09
25-02	MW25-02	2025-04-03	Normal	3.05	6.1	Clay	Organics	VOL-91-5010	2025-04-09
25-02	MW25-02	2025-04-03	Normal	3.05	6.1	Clay	PAH	ORG-91-5105	2025-04-10
25-02	MW25-02	2025-04-03	Normal	3.05	6.1	Clay	Volatile Organics	VOL-91-5001	2025-04-09
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Inorganic	INOR-93-6000	2025-04-02
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Inorganic	INOR-93-6004	2025-04-01
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Inorganic	INOR-93-6052	2025-04-04
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Inorganic	INOR-93-6073	2025-04-04
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Inorganic	MET-121-6100 & MET-121-6107	2025-04-03
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Inorganic	MET-93-6103	2025-04-03
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Organics	VOL-91- 5001	2025-04-05
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Organics	VOL-91-5010	2025-04-07
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	PAH	ORG-91-5105	2025-04-07
25-03	MW25-03	2025-03-27	Normal	1.83	4.88	Clay	Volatile Organics	VOL-91-5001	2025-04-05
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Inorganic	INOR-93-6000	2025-04-07
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Inorganic	INOR-93-6004	2025-04-07
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Inorganic	INOR-93-6052	2025-04-09
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Inorganic	INOR-93-6073	2025-04-07
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Inorganic	MET-121-6100 & MET-121-6107	2025-04-08
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Inorganic	MET-93-6103	2025-04-07
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Organics	VOL-91- 5001	2025-04-09
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Organics	VOL-91-5010	2025-04-09
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	PAH	ORG-91-5105	2025-04-10
25-04	MW25-04	2025-04-03	Normal	3.05	3.65	Clay	Volatile Organics	VOL-91-5001	2025-04-09
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Inorganic	INOR-93-6000	2025-04-07
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Inorganic	INOR-93-6004	2025-04-07
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Inorganic	INOR-93-6052	2025-04-09
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Inorganic	INOR-93-6073	2025-04-07
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Inorganic	MET-121-6100 & MET-121-6107	2025-04-08
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Inorganic	MET-93-6103	2025-04-07
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Organics	ORG-91-5112	2025-04-11
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Organics	VOL-91- 5001	2025-04-09
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Organics	VOL-91-5010	2025-04-09
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	PAH	ORG-91-5105	2025-04-10
25-05	MW25-05	2025-04-03	Normal	3.65	5.49	Clay	Volatile Organics	VOL-91-5001	2025-04-09
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	Inorganic	INOR-93-6000	2025-03-31
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	Inorganic	INOR-93-6004	2025-03-31
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	Metals	INOR-93-6073	2025-04-01

Location	Sample ID	Date/Time	Sample Type	Top Screen Depth (m)	Bottom Screen Depth (m)	Monitoring Unit	Method Type	Method Name	Analysis Date
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	Metals	MET-121-6107	2025-04-01
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	Metals	MET-93-6103	2025-03-31
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	Organics	VOL-91- 5001	2025-04-04
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	Organics	VOL-91-5010	2025-04-02
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	PAH	ORG-91-5105	2025-04-03
25-06	DUP02	2025-03-26	Duplicate	2.71	5.76	Clay	Volatile Organics	VOL-91-5001	2025-04-04
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	Inorganic	INOR-93-6000	2025-03-31
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	Inorganic	INOR-93-6004	2025-03-31
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	Metals	INOR-93-6073	2025-04-01
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	Metals	MET-121-6107	2025-04-01
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	Metals	MET-93-6103	2025-03-31
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	Organics	VOL-91- 5001	2025-04-04
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	Organics	VOL-91-5010	2025-04-02
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	PAH	ORG-91-5105	2025-04-03
25-06	MW25-06	2025-03-26	Normal	2.71	5.76	Clay	Volatile Organics	VOL-91-5001	2025-04-04
25-07	DUP01	2025-03-25	Duplicate	2.13	5.18	Clay	Inorganic	MET-121-6100 & MET-121-6107	2025-03-27
25-07	DUP01	2025-03-25	Duplicate	2.13	5.18	Clay	Organics	ORG-91-5112	2025-04-02
25-07	DUP01	2025-03-25	Duplicate	2.13	5.18	Clay	Organics	VOL-91- 5001	2025-04-02
25-07	DUP01	2025-03-25	Duplicate	2.13	5.18	Clay	Organics	VOL-91-5010	2025-04-01
25-07	DUP01	2025-03-25	Duplicate	2.13	5.18	Clay	PAH	ORG-91-5105	2025-04-01
25-07	DUP01	2025-03-25	Duplicate	2.13	5.18	Clay	Volatile Organics	VOL-91-5001	2025-04-02
25-07	MW25-07	2025-03-25	Normal	2.13	5.18	Clay	Inorganic	MET-121-6100 & MET-121-6107	2025-03-27
25-07	MW25-07	2025-03-25	Normal	2.13	5.18	Clay	Organics	ORG-91-5112	2025-04-02
25-07	MW25-07	2025-03-25	Normal	2.13	5.18	Clay	Organics	VOL-91- 5001	2025-04-02
25-07	MW25-07	2025-03-25	Normal	2.13	5.18	Clay	Organics	VOL-91-5010	2025-04-01
25-07	MW25-07	2025-03-25	Normal	2.13	5.18	Clay	PAH	ORG-91-5105	2025-04-01
25-07	MW25-07	2025-03-25	Normal	2.13	5.18	Clay	Volatile Organics	VOL-91-5001	2025-04-02
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Inorganic	INOR-93-6000	2025-04-02
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Inorganic	INOR-93-6004	2025-04-01
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Inorganic	INOR-93-6052	2025-04-04
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Inorganic	INOR-93-6073	2025-04-04
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Inorganic	MET-121-6100 & MET-121-6107	2025-04-03
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Inorganic	MET-93-6103	2025-04-03
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Organics	VOL-91- 5001	2025-04-05
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Organics	VOL-91-5010	2025-04-07
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	PAH	ORG-91-5105	2025-04-07
25-08	MW25-08	2025-03-27	Normal	3.05	6.1	Clay	Volatile Organics	VOL-91-5001	2025-04-05

						Moisture	ORP / Inorganics								BTEX						PHCs								PAH										
						Moisture	pH (Lab)	Chloride	Electrical Conductivity (Lab)	Sodium Absorption Ratio	Sulphate	Sulphide	Bromide	Cyanide (WAD)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Mixture	F1 (C6-C10)	F1 (C6-C10) minus BTEX	F2 (>C10-C16)	F2 - Naphthalene	F3 (>C16-C34)	F3 (>C16-C34) - PAH	F4 (>C34-C50)	F4G (Gravimetric Heavy Hydrocarbons)	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(e) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
						%	-	µg/g	mS/cm	-	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
EQL						0.1	0	2	0.005	0	2	100	0.04	0.04	0.02	0.05	0.05	0.05	0.05	0.05	5	5	10	10	50	50	50	50	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Table 3 - Full Depth Non-Potable GW - Ind/Cml/Cmy (Coarse Soil)									1.4	12				0.051	0.32	68	9.5			26	55[#1]	55[#1]	230	230[#2]	1,700	1,700[#3]	3,300	3,300[#4]	96	0.15	0.67	0.96	0.3	0.96	9.6	0.96	9.6	0.1
Location	**Sample ID**	**Lab Sample ID**	**Date**	**Depth (mbgs)**	**Lab Report Number**																																	
15-01	**BH15-01 SA7**	**Historical**	**09 Oct 2015**	**5.89 - 6.1**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.08	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-02	**BH15-02 SA8**	**Historical**	**08 Oct 2015**	**5.56 - 6.1**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-03	**BH15-03 SA5**	**Historical**	**07 Oct 2015**	**1.88 - 2.44**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15-03	**DUP3**	**Historical**	**07 Oct 2015**	**1.88 - 2.44**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15-03A	**15-3A SA7**	**Historical**	**07 Jun 2016**	**9.76 - 10.37**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-03A	**15-3A SA8**	**Historical**	**07 Jun 2016**	**9.76 - 10.37**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-04	**BH15-04 SA9**	**Historical**	**09 Oct 2015**	**4.88 - 6.1**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-05	**BH15-05 SA7**	**Historical**	**07 Oct 2015**	**5.94 - 6.1**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.08	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-06	**BH15-06 SA5**	**Historical**	**07 Oct 2015**	**3.66 - 4.88**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.08	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-11	**BH15-11 SA1**	**Historical**	**07 Oct 2015**	**0.1 - 0.25**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.08	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15-12	**15-12 SA4**	**Historical**	**06 Jun 2016**	**2.13**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-12	**15-12 SA6**	**Historical**	**06 Jun 2016**	**3.35**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-13	**15-13 SA1**	**Historical**	**06 Jun 2016**	**0.91**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-14	**15-14 SA5**	**Historical**	**06 Jun 2016**	**4.27**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-14	**15-14 SA7**	**Historical**	**06 Jun 2016**	**5.84**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-15	**15-15 SA5**	**Historical**	**07 Jun 2016**	**3.35**	**Historical**	-	-	-	-	-	-	-	-	-	<0.04	<0.10	<0.10	-	-	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-15	**15-15 SA9**	**Historical**	**07 Jun 2016**	**5.87**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-15	**DUP4**	**Historical**	**07 Jun 2016**	**3.35**	**Historical**	-	-	-	-	-	-	-	-	-	<0.04	<0.10	<0.10	-	-	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-16	**15-16 SA4**	**Historical**	**06 Jun 2016**	**3.05**	**Historical**	-	-	-	-	-	-	-	-	-	<0.04	<0.10	<0.10	-	-	<0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-16	**15-16 SA8**	**Historical**	**06 Jun 2016**	**5.66**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-17	**15-17 SA2**	**Historical**	**06 Jun 2016**	**3**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-17	**15-17 SA3**	**Historical**	**06 Jun 2016**	**5.94**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-18	**15-18 SA3**	**Historical**	**07 Jun 2016**	**1.22 - 1.83**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-18	**15-18 SA4**	**Historical**	**07 Jun 2016**	**1.83 - 2.44**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-18	**DUP3**	**Historical**	**07 Jun 2016**	**1.22 - 1.83**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-19	**15-19 SA5**	**Historical**	**06 Jun 2016**	**2.44 - 3.12**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
15-19	**15-19 SA6**	**Historical**	**06 Jun 2016**	**3.12 - 3.66**	**Historical**	-	-	-	-	-	-	-	-	-	<0.02	<0.05	<0.05	-	-	<0.05	<5	-	<10	-	<50	-	<50	-	-	-	-	-	-	-	-	-	-	-
25-01	**25-01-SS2_2-4**	**6595720**	**18 Mar 2025**	**0.61 - 1.22**	**25Z259621**	31.8	7.26	-	1.35	20	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-01	**25-01-SS3_4-6**	**6595721**	**18 Mar 2025**	**1.22 - 1.83**	**25Z259621**	33.0	7.33	-	4.43	29	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-01	**25-01-SS4_6-8**	**6595727**	**18 Mar 2025**	**1.83 - 2.44**	**25Z259621**	-	8.19	2,120	4.18	-	72	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25-02	**25-02-SS4_6.5-8.5**	**6592553**	**17 Mar 2025**	**1.98 - 2.59**	**25Z259129**	30.6	7.70	-	2.96	5.7	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-03	**25-03-SS1_0.5-2.5**	**6589456**	**14 Mar 2025**	**0.5 - 2.5**	**25Z258973**	12.9	7.53	-	0.930	10.0	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	0.10	0.11	0.12	0.06	<0.05	0.13	<0.05
25-03	**25-03-SS4_7.5-9.5**	**6589524**	**14 Mar 2025**	**2.29 - 2.89**	**25Z258973**	36.1	7.42	-	0.786	9.3	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-04	**25-04-SS1_0.5-1**	**6626377**	**25 Mar 2025**	**0.152 - 0.304**	**25Z265051**	16.3	10.6	-	0.369	3.3	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	0.05	<0.05	0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-04	**25-04-SS3_3-5**	**6626383**	**25 Mar 2025**	**0.914 - 1.52**	**25Z265051**	11.4	7.07	-	0.249	2.0	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-04	**25-04-SS5_7-9**	**6626398**	**25 Mar 2025**	**2.13 - 2.74**	**25Z265051**	19.5	8.67	13	0.172	-	37	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25-05	**25-05-SS1_1-1.5**	**6626399**	**27 Mar 2025**	**0.304 - 0.457**	**25Z265051**	12.3	8.73	-	0.197	2.5	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-05	**25-05-SS3_3.5-5.5**	**6626400**	**27 Mar 2025**	**1.07 - 1.68**	**25Z265051**	8.4	6.90	-	0.079	0.72	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-06	**25-06-SS1_0-2**	**6602064**	**20 Mar 2025**	**0 - 0.61**	**25Z260479**	2.6	6.99	-	2.21	19	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	1,690	1,690	1,770	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
25-06	**25-06-SS2_2.5-4.5**	**6602065**	**20 Mar 2025**	**0.76 - 1.37**	**25Z260479**	25.8	7.37	-	8.96	95	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	89	89	126	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-07	**25-07-SS1_2.0-3.0**	**6589528**	**14 Mar 2025**	**0.61 - 0.914**	**25Z258973**	7.9	7.72	-	1.72	14	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	179	178	113	NA	<0.05	<0.05	0.05	0.08	0.08	0.11	0.05	<0.05	0.14	<0.05
25-07	**25-07-SS3_7.5-9.5**	**6589530**	**14 Mar 2025**	**2.29 - 2.89**	**25Z258973**	30.4	7.37	-	4.56	17	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-07	**DUP01**	**6589578**	**14 Mar 2025**	**0.61 - 0.914**	**25Z258973**	7.2	7.69	-	1.86	17	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	134	133	81	NA	<0.05	<0.05	0.05	0.09	0.09	0.12	0.06	0.06	0.15	<0.05
25-08	**25-08-SS1_2.5-4.5**	**6583475**	**12 Mar 2025**	**0.762 - 1.38**	**25Z258057**	28.6	-	-	-	-	-	-	<0.04	-	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-09	**25-09-SS1_0-2**	**6602066**	**20 Mar 2025**	**0 - 0.61**	**25Z260479**	13.4	7.21	-	2.04	33	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	100	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-09	**25-09-SS2_2.5-4.5**	**6602067**	**20 Mar 2025**	**0.76 - 1.37**	**25Z260479**	23.8	7.16	-	3.14	24	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	414	414	442	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-09	**25-09-SS4_7.5-9.5**	**6602068**	**20 Mar 2025**	**2.29 - 2.89**	**25Z260479**	29.5	7.09	-	1.69	6.0	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	350	350	496	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-09	**DUP02**	**6602072**	**20 Mar 2025**	**0.76 - 1.37**	**25Z260479**	23.1	7.15	-	2.92	21	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-10	**25-10-SS1_2.5-4.5**	**6602071**	**20 Mar 2025**	**0.76 - 1.37**	**25Z260479**	27.4	7.14	-	0.769	5.4	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-10	**DUP04**	**6602074**	**20 Mar 2025**	**0.76 - 1.35**	**25Z260479**	30.0	6.94	-	0.893	6.7	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-11	**25-11-SS1_1-2**	**6607398**	**21 Mar 2025**	**0.305 - 0.61**	**25Z261143**	5.2	6.89	-	3.37	2.6	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
25-11	**25-11-SS6_10-12**	**6607399**	**21 Mar 2025**	**3.05 - 3.66**	**25Z261143**	11.4	7.02	-	2.12	7.4	-	-	<0.04	<0.040	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<5	<5	<10	<10	<50	<50	<50	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Comments

#1 F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result.

#2 PHC analysis need not include PAHs. If concentrations of PAHs are determined, corrected and uncorrected results must be reported as F2, F2-napthalene.

#3 PHC analysis need not include PAHs. If concentrations of PAHs are determined, corrected and uncorrected results must be reported as F3, F3-PAHs.

#54 The greater result of F4 and F4G is used for purposes of comparison to the applicable site condition standard in O. Reg. 153/04 or O. Reg. 406/35

#5 The methyl naphthalene standards are applicable to both 1-methyl naphthalene and 2- methyl naphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.

Environmental Standards

Soil, ground water and sediment standards, Ministry of Environment, Conservation and Parks , April 2011, Table 3 - Full Depth Non-Potable GW - Ind/Cml/Cmy (Coarse Soil)

| | | | | | | PAH | | | | | | | PCBs | | | | | | Metals | | | | | | |

						VOCs (cVOCs)																		VOCs (Halogenated Benzenes)				VOCs (Halogenated Hydrocarbons)			VOCs (other)											
						1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2-dichloroethane	Carbon tetrachloride	Chloroform	1,2-dichloroethylene	Methylene Chloride	1,1-dichloroethene	cis-1,2-dichloroethylene	trans-1,2-dichloroethylene	Trichloroethylene (TCE)	Tetrachloroethylene (PCE)	Vinyl chloride	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Bromomethane	Dichlorodifluoromethane	Trichlorofluoromethane	Acetone	Bromoform	Bromodichloromethane	Dibromochloromethane	1,2-dichloropropane	1,2-Dibromomethane	1,3-Dichloropropene	Hexane (n)	Methyl Ethyl Ketone (MEK)	Methyl isobutyl ketone (MIK)	Methyl tert-butyl ether (MTBE)	Styrene
						µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
EQL						0.04	0.05	0.05	0.04		0.03	0.05	0.04	0.02	0.05	0.05	0.02	0.05	0.03	0.05	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.05	0.05	0.05	0.03		0.05	0.05	0.5	0.5	0.05	0.05
Table 3 - Full Depth Non-Potable GW - Ind/Cml/Cmy (Coarse Soil)						**0.087**	**6.1**	**0.05**	**0.05**	**17**	**0.05**	**0.21**	**0.47**		**1.6**	**0.064**	**55**	**1.3**	**0.91**	**4.5**	**0.032**	**6.8**	**9.6**	**0.2**	**2.4**	**0.05**	**16**	**4**	**16**	**0.61**	**18**	**13**	**0.16**		**0.18**	**46**	**70**	**31**	**11**	**34**
Location	**Sample ID**	**Lab Sample ID**	**Date**	**Depth (mbgs)**	**Lab Report Number**																																				
15-01	**BH15-01 SA7**	**Historical**	**09 Oct 2015**	**5.89 - 6.1**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-02	**BH15-02 SA8**	**Historical**	**08 Oct 2015**	**5.56 - 6.1**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-03	**BH15-03 SA5**	**Historical**	**07 Oct 2015**	**1.88 - 2.44**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-03	**DUP3**	**Historical**	**07 Oct 2015**	**1.88 - 2.44**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-03A	**15-3A SA7**	**Historical**	**07 Jun 2016**	**9.76 - 10.37**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-03A	**15-3A SA8**	**Historical**	**07 Jun 2016**	**9.76 - 10.37**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-04	**BH15-04 SA9**	**Historical**	**09 Oct 2015**	**4.88 - 6.1**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-05	**BH15-05 SA7**	**Historical**	**07 Oct 2015**	**5.94 - 6.1**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-06	**BH15-06 SA5**	**Historical**	**07 Oct 2015**	**3.66 - 4.88**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-11	**BH15-11 SA1**	**Historical**	**07 Oct 2015**	**0.1 - 0.25**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-12	**15-12 SA4**	**Historical**	**06 Jun 2016**	**2.13**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-12	**15-12 SA6**	**Historical**	**06 Jun 2016**	**3.35**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-13	**15-13 SA1**	**Historical**	**06 Jun 2016**	**0.91**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-14	**15-14 SA5**	**Historical**	**06 Jun 2016**	**4.27**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	0.25	<0.05	0.46	0.72	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-14	**15-14 SA7**	**Historical**	**06 Jun 2016**	**5.84**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	0.04	<0.05	0.15	0.12	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-15	**15-15 SA5**	**Historical**	**07 Jun 2016**	**3.35**	**Historical**	<0.08	<0.10	<0.10	<0.08	<0.04	<0.06	<0.10	<0.08	-	<0.10	<0.10	<0.04	<0.10	<0.06	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.00	<0.10	<0.10	<0.10	<0.06	<0.08	<0.08	<0.10	<1.00	<1.00	<0.10	<0.10
15-15	**15-15 SA9**	**Historical**	**07 Jun 2016**	**5.87**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-15	**DUP4**	**Historical**	**07 Jun 2016**	**3.35**	**Historical**	<0.08	<0.10	<0.10	<0.08	<0.04	<0.06	<0.10	<0.08	-	<0.10	<0.10	<0.04	<0.10	<0.06	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.00	<0.10	<0.10	<0.10	<0.06	<0.08	<0.08	<0.10	<1.00	<1.00	<0.10	<0.10
15-16	**15-16 SA4**	**Historical**	**06 Jun 2016**	**3.05**	**Historical**	<0.08	<0.10	<0.10	<0.08	<0.04	<0.06	<0.10	<0.08	-	<0.10	<0.10	<0.04	<0.10	<0.06	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<1.00	<0.10	<0.10	<0.10	<0.06	<0.08	<0.08	<0.10	<1.00	<1.00	<0.10	<0.10
15-16	**15-16 SA8**	**Historical**	**06 Jun 2016**	**5.66**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	0.33	<0.05	0.51	2.3	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-17	**15-17 SA2**	**Historical**	**06 Jun 2016**	**3**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-17	**15-17 SA3**	**Historical**	**06 Jun 2016**	**5.94**	**Historical**	<0.04	<0.05	<0.05	<0.04	<0.02	<0.03	<0.05	<0.04	-	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	<0.04	<0.04	<0.05	<0.50	<0.50	<0.05	<0.05
15-18	**15-18 SA3**	**Historical**	**07 Jun 2016**	**1.22 - 1.83**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-18	**15-18 SA4**	**Historical**	**07 Jun 2016**	**1.83 - 2.44**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-18	**DUP3**	**Historical**	**07 Jun 2016**	**1.22 - 1.83**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	**15-19 SA5**	**Historical**	**06 Jun 2016**	**2.44 - 3.12**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	**15-19 SA6**	**Historical**	**06 Jun 2016**	**3.12 - 3.66**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25-01	**25-01-SS2_2-4**	**6595720**	**18 Mar 2025**	**0.61 - 1.22**	**25Z259621**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-01	**25-01-SS3_4-6**	**6595721**	**18 Mar 2025**	**1.22 - 1.83**	**25Z259621**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-01	**25-01-SS4_6-8**	**6595727**	**18 Mar 2025**	**1.83 - 2.44**	**25Z259621**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25-02	**25-02-SS4_6.5-8.5**	**6592553**	**17 Mar 2025**	**1.98 - 2.59**	**25Z259129**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-03	**25-03-SS1_0.5-2.5**	**6589456**	**14 Mar 2025**	**0.5 - 2.5**	**25Z258973**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-03	**25-03-SS4_7.5-9.5**	**6589524**	**14 Mar 2025**	**2.29 - 2.89**	**25Z258973**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-04	**25-04-SS1_0.5-1**	**6626377**	**25 Mar 2025**	**0.152 - 0.304**	**25Z265051**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-04	**25-04-SS3_3-5**	**6626383**	**25 Mar 2025**	**0.914 - 1.52**	**25Z265051**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-04	**25-04-SS5_7-9**	**6626398**	**25 Mar 2025**	**2.13 - 2.74**	**25Z265051**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25-05	**25-05-SS1_1-1.5**	**6626399**	**27 Mar 2025**	**0.304 - 0.457**	**25Z265051**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-05	**25-05-SS3_3.5-5.5**	**6626400**	**27 Mar 2025**	**1.07 - 1.68**	**25Z265051**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-06	**25-06-SS1_0-2**	**6602064**	**20 Mar 2025**	**0 - 0.61**	**25Z260479**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-06	**25-06-SS2_2.5-4.5**	**6602065**	**20 Mar 2025**	**0.76 - 1.37**	**25Z260479**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-07	**25-07-SS1_2.0-3.0**	**6589528**	**14 Mar 2025**	**0.61 - 0.914**	**25Z258973**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-07	**25-07-SS3_7.5-9.5**	**6589530**	**14 Mar 2025**	**2.29 - 2.89**	**25Z258973**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-07	**DUP01**	**6589578**	**14 Mar 2025**	**0.61 - 0.914**	**25Z258973**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-08	**25-08-SS1_2.5-4.5**	**6583475**	**12 Mar 2025**	**0.762 - 1.38**	**25Z258057**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-09	**25-09-SS1_0-2**	**6602066**	**20 Mar 2025**	**0 - 0.61**	**25Z260479**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-09	**25-09-SS2_2.5-4.5**	**6602067**	**20 Mar 2025**	**0.76 - 1.37**	**25Z260479**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-09	**25-09-SS4_7.5-9.5**	**6602068**	**20 Mar 2025**	**2.29 - 2.89**	**25Z260479**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-09	**DUP02**	**6602072**	**20 Mar 2025**	**0.76 - 1.37**	**25Z260479**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-10	**25-10-SS1_2.5-4.5**	**6602071**	**20 Mar 2025**	**0.76 - 1.37**	**25Z260479**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-10	**DUP04**	**6602074**	**20 Mar 2025**	**0.76 - 1.35**	**25Z260479**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-11	**25-11-SS1_1-2**	**6607398**	**21 Mar 2025**	**0.305 - 0.61**	**25Z261143**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05
25-11	**25-11-SS6_10-12**	**6607399**	**21 Mar 2025**	**3.05 - 3.66**	**25Z261143**	<0.04	<0.05	<0.05	<0.04	-	<0.03	<0.05	<0.04	<0.02	<0.05	<0.05	<0.02	<0.05	<0.03	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.03	-	<0.05	<0.05	<0.50	<0.50	<0.05	<0.05

| | | |

	PCBs					Metals																							
	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Antimony (filtered)	Arsenic (filtered)	Barium (filtered)	Beryllium (filtered)	Boron (filtered)	Cadmium (filtered)	Chromium VI (filtered)	Chromium (total) (filtered)	Cobalt (filtered)	Copper (filtered)	Lead (filtered)	Mercury	Mercury (filtered)	Molybdenum (filtered)	Nickel (filtered)	Selenium (filtered)	Silver (filtered)	Thallium (filtered)	Uranium (filtered)	Vanadium (filtered)	Zinc (filtered)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL					0.1	1	1	2	0.5	10	0.2	2	2	0.5	1	0.5	0.026	0.026	0.5	1	1	0.2	0.3	0.5	0.4	5
Table 3 - Full Depth Non-Potable GW (Coarse Grained)					**7.8**	**20,000**	**1,900**	**29,000**	**67**	**45,000**	**2.7**	**140**	**810**	**66**	**87**	**25**	**0.29**	**0.29**	**9,200**	**490**	**63**	**1.5**	**510**	**420**	**250**	**1,100**

Location	Sample ID	Lab Sample ID	Date	Top Screen Depth	Bottom Screen Depth	Lab Report Number																								
15-01	15-01	Historical	08 Mar 2016	3.05	6.1	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-02	15-02	Historical	14 Oct 2015	3.05	6.1	Historical	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-02	15-02	Historical	23 Mar 2016	3.05	6.1	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-03	15-03	Historical	08 Mar 2016	3.05	6.1	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-03	15-03	Historical	14 Oct 2015	3.05	6.1	Historical	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-03	DUP	Historical	08 Mar 2016	3.05	6.1	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-03	DUP3	Historical	14 Oct 2015	3.05	6.1	Historical	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-03	MW15-03	6616652	26 Mar 2025	3.05	6.1	25Z264766	-	-	-	-	-	<5.0	<5.0	208	<2.00	186	<1.00	<2.000	<3.5	<2.50	<5.0	<0.50	<0.026	-	<2.50	<5.0	<5.0	<1.00	<1.50	<2.50	<2.00	<25.0
15-03A	15-03A	Historical	23 Mar 2016	9.25	10.72	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-03A	15-03A DUP	Historical	23 Mar 2016	9.25	10.72	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-03A	MW15-03A	6624747	28 Mar 2025	9.25	10.72	25Z265059	-	-	-	-	<0.1	<1.0	<1.0	177	<0.50	224	<0.20	<2.000	<2.0	<0.50	<1.0	0.61	-	<0.026	6.66	<1.0	<1.0	<0.20	<0.30	<0.50	<0.40	<5.0
15-04	15-04	Historical	07 Mar 2016	9.7	12.8	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-04	15-04	Historical	14 Oct 2015	9.7	12.8	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-05	15-05	Historical	08 Mar 2016	3.05	6.1	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-05	MW15-05	6625572	27 Mar 2025	3.05	6.1	25Z265216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-06	15-06	Historical	14 Oct 2015	1.52	4.57	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-06	MW15-06	6639051	04 Apr 2025	1.52	4.57	25Z267371	-	-	-	-	-	<1.0	<1.0	465	<0.50	163	<0.20	<2.000	<2.0	2.92	<1.0	0.50	-	<0.026	3.63	8.2	<1.0	<0.20	<0.30	1.37	0.46	<5.0
15-12	15-12	Historical	14 Jun 2016	1.52	3.05	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-12	MW15-12	6639053	04 Apr 2025	1.52	3.05	25Z267371	-	-	-	-	-	<1.0	<1.0	150	<0.50	204	<0.20	<2.000	<2.0	0.67	<1.0	<0.50	-	<0.026	4.80	1.4	<1.0	<0.20	<0.30	<0.50	0.43	<5.0
15-14	15-14	Historical	14 Jun 2016	4.88	6.4	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-15	15-15	Historical	14 Jun 2016	4.57	6.1	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-15	DUP1	Historical	14 Jun 2016	4.57	6.1	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-15	MW15-15	6625532	27 Mar 2025	4.57	6.1	25Z265216	-	-	-	-	-	<1.0	<1.0	102	<0.50	182	<0.20	<2.000	<2.0	<0.50	<1.0	<0.50	-	<0.026	2.63	1.5	<1.0	<0.20	<0.30	<0.50	3.09	<5.0
15-16	15-16	Historical	14 Jun 2016	4.57	6.1	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-16	MW15-16	6639055	04 Apr 2025	4.57	6.1	25Z267371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-17	15-17	Historical	14 Jun 2016	5.79	7.32	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-17	MW15-17	6624607	28 Mar 2025	5.79	7.32	25Z265059	-	-	-	-	<0.1	<1.0	<1.0	48.3	<0.50	182	<0.20	<2.000	<2.0	<0.50	1.1	<0.50	-	<0.026	30.9	1.5	<1.0	<0.20	<0.30	<0.50	<0.40	<5.0
15-18	15-18	Historical	14 Jun 2016	1.52	3.05	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	15-19	Historical	14 Jun 2016	2.74	4.26	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	DUP2	Historical	14 Jun 2016	2.74	4.26	Historical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	MW15-19	6611182	25 Mar 2025	2.74	4.26	25Z264070	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.026	-	-	-	-	-	-	-	-
25-02	MW25-02	6639056	03 Apr 2025	3.05	6.1	25Z267371	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.026	-	-	-	-	-	-	-	-
25-03	MW25-03	6625465	27 Mar 2025	1.83	4.88	25Z265216	-	-	-	-	-	<1.0	4.1	418	<0.50	222	<0.20	<2.000	<2.0	1.24	1.7	<0.50	-	<0.026	17.2	8.7	<1.0	<0.20	<0.30	10.3	0.47	8.7
25-04	MW25-04	6639057	03 Apr 2025	3.05	3.65	25Z267371	-	-	-	-	-	<1.0	<1.0	5.5	<0.50	31.1	<0.20	<2.000	<2.0	<0.50	<1.0	<0.50	-	<0.026	6.69	<1.0	<1.0	<0.20	<0.30	<0.50	8.21	<5.0
25-05	MW25-05	6639058	03 Apr 2025	3.65	5.49	25Z267371	-	-	-	-	<0.1	<1.0	<1.0	11.0	<0.50	41.3	<0.20	<2.000	<2.0	<0.50	1.2	<0.50	-	<0.026	9.06	1.2	<1.0	<0.20	<0.30	<0.50	5.00	<5.0
25-06	DUP02	6616648	26 Mar 2025	2.71	5.76	25Z264766	-	-	-	-	-	<5.0	<5.0	795	<2.00	95.0	<1.00	<2.000	3.9	4.26	<5.0	<0.50	<0.026	-	3.50	19.6	<5.0	<1.00	<1.50	7.32	<2.00	<25.0
25-06	MW25-06	6616647	26 Mar 2025	2.71	5.76	25Z264766	-	-	-	-	-	<5.0	<5.0	816	<2.00	101	<1.00	<2.000	<3.5	3.96	<5.0	<0.50	<0.026	-	3.09	19.7	<5.0	<1.00	<1.50	7.76	2.22	<25.0
25-07	DUP01	6611179	25 Mar 2025	2.13	5.18	25Z264070	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.026	-	-	-	-	-	-	-	-
25-07	MW25-07	6611173	25 Mar 2025	2.13	5.18	25Z264070	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	<0.026	-	-	-	-	-	-	-	-
25-08	MW25-08	6625531	27 Mar 2025	3.05	6.1	25Z265216	-	-	-	-	-	<1.0	1.4	33.0	<0.50	27.5	<0.20	<2.000	<2.0	<0.50	<1.0	<0.50	-	<0.026	5.00	1.1	<1.0	<0.20	<0.30	0.68	10.5	<5.0

Table 6B: Groundwater Analytical Reuslts

	VOCs (cVOCs)																VOCs (Halogenated Benzenes)				VOCs (Halogenated Hydrocarbons)			VOCs (other)										
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2-dichloroethane	Carbon tetrachloride	Chloroform	1,2-dichloroethylene	Methylene Chloride	1,1-dichloroethene	cis-1,2-dichloroethylene	trans-1,2-dichloroethylene	Trichloroethylene (TCE)	Tetrachloroethylene (PCE)	Vinyl chloride	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Bromomethane	Dichlorodifluoromethane	Trichlorofluoromethane	Acetone	Bromoform	Bromodichloromethane	Dibromochloromethane	1,2-dichloropropane	1,2-Dibromomethane	1,3-Dichloropropene	Hexane (n)	Methyl Ethyl Ketone (MEK)	Methyl isobutyl ketone (MIK)	Methyl tert-butyl ether (MTBE)	Styrene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.1	0.3	0.1	0.2		0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.17	0.1	0.1	0.1	0.1	0.2	0.4	0.4	1	0.1	0.2	0.1	0.2		0.3	0.2	1	1	0.2	0.1
Table 3 - Full Depth Non-Potable GW (Coarse Grained)	**3.4**	**640**	**3.2**	**4.7**	**320**	**1.6**	**0.79**	**2.4**		**610**	**1.6**	**1.6**	**1.6**	**1.6**	**1.6**	**0.5**	**4,600**	**9,600**	**8**	**630**	**5.6**	**4,400**	**2,500**	**130,000**	**380**	**85,000**	**82,000**	**16**		**5.2**	**51**	**470,000**	**140,000**	**190**	**1,300**
Location	**Sample ID**	**Lab Sample ID**	**Date**	**Top Screen Depth**	**Bottom Screen Depth**	**Lab Report Number**																													
15-01	**15-01**	**Historical**	**08 Mar 2016**	**3.05**	**6.1**	**Historical**	<0.20	<0.60	<0.20	<0.40	<0.60	<0.40	<0.40	<0.40	-	<0.60	<0.60	<0.40	<0.40	<0.40	<0.40	<0.34	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.80	<2.0	<0.20	<0.40	<0.20	<0.40	<0.20	<0.60	<0.40	<2.0	<2.0	<0.40	<0.20
15-02	**15-02**	**Historical**	**14 Oct 2015**	**3.05**	**6.1**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-02	**15-02**	**Historical**	**23 Mar 2016**	**3.05**	**6.1**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	<0.20	<0.20	<0.20	0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-03	**15-03**	**Historical**	**08 Mar 2016**	**3.05**	**6.1**	**Historical**	<0.40	<1.20	<0.40	<0.80	<1.20	<0.80	<0.80	<0.80	-	<1.20	**4.7**	**750**	**11**	**320**	**1,600**	**54**	<0.40	<0.40	<0.40	<0.40	<0.80	<0.80	<1.60	<4.0	<0.40	<0.80	<0.40	<0.80	<0.40	<1.20	<0.80	<4.0	<4.0	<0.80	<0.40
15-03	**15-03**	**Historical**	**14 Oct 2015**	**3.05**	**6.1**	**Historical**	<1.00	<3.00	<1.00	<2.00	<3.00	<2.00	<2.00	<2.00	-	<3.00	<3.00	**590**	**7.5**	**440**	**2,700**	**52**	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<4.00	<10.0	<1.00	<2.00	<1.00	<2.00	<1.00	<3.00	<2.00	<10.0	<10.0	<2.00	<1.00
15-03	**DUP**	**Historical**	**08 Mar 2016**	**3.05**	**6.1**	**Historical**	<0.40	<1.20	<0.40	<0.80	<1.20	<0.80	<0.80	<0.80	-	<1.20	**3.6**	**800**	**11**	**340**	**1,600**	**47**	<0.40	<0.40	<0.40	<0.40	<0.80	<0.80	<1.60	<4.0	<0.40	<0.80	<0.40	<0.80	<0.40	<1.20	<0.80	<4.0	<4.0	<0.80	<0.40
15-03	**DUP3**	**Historical**	**14 Oct 2015**	**3.05**	**6.1**	**Historical**	<1.00	<3.00	<1.00	<2.00	<3.00	<2.00	<2.00	<2.00	-	<3.00	<3.00	**670**	**8.8**	**540**	**2,800**	**52**	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<4.00	<10.0	<1.00	<2.00	<1.00	<2.00	<1.00	<3.00	<2.00	<10.0	<10.0	<2.00	<1.00
15-03	**MW15-03**	**6616652**	**26 Mar 2025**	**3.05**	**6.1**	**25Z264766**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	**230**	<0.20	<0.20	**188**	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-03A	**15-03A**	**Historical**	**23 Mar 2016**	**9.25**	**10.72**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	<0.20	<0.20	0.20	**3.6**	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-03A	**15-03A DUP**	**Historical**	**23 Mar 2016**	**9.25**	**10.72**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	<0.20	<0.20	0.20	**3.4**	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-03A	**MW15-03A**	**6624747**	**28 Mar 2025**	**9.25**	**10.72**	**25Z265059**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-04	**15-04**	**Historical**	**07 Mar 2016**	**9.7**	**12.8**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-04	**15-04**	**Historical**	**14 Oct 2015**	**9.7**	**12.8**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	0.35	-	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-05	**15-05**	**Historical**	**08 Mar 2016**	**3.05**	**6.1**	**Historical**	<0.20	<0.60	<0.20	<0.40	<0.60	<0.40	<0.40	<0.40	-	<0.60	<0.60	<0.40	<0.40	<0.40	<0.40	<0.34	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.80	<2.0	<0.20	<0.40	<0.20	<0.40	<0.20	<0.60	<0.40	<2.0	<2.0	<0.40	<0.20
15-05	**MW15-05**	**6625572**	**27 Mar 2025**	**3.05**	**6.1**	**25Z265216**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-06	**15-06**	**Historical**	**14 Oct 2015**	**1.52**	**4.57**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-06	**MW15-06**	**6639051**	**04 Apr 2025**	**1.52**	**4.57**	**25Z267371**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-12	**15-12**	**Historical**	**14 Jun 2016**	**1.52**	**3.05**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-12	**MW15-12**	**6639053**	**04 Apr 2025**	**1.52**	**3.05**	**25Z267371**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-14	**15-14**	**Historical**	**14 Jun 2016**	**4.88**	**6.4**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	**16**	<0.20	**10**	**6.6**	**0.67**	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-15	**15-15**	**Historical**	**14 Jun 2016**	**4.57**	**6.1**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	0.59	<0.20	**4.4**	**7.7**	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-15	**DUP1**	**Historical**	**14 Jun 2016**	**4.57**	**6.1**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	0.51	<0.20	**5.4**	**9.7**	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-15	**MW15-15**	**6625532**	**27 Mar 2025**	**4.57**	**6.1**	**25Z265216**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	**10.2**	<0.20	<0.20	**407**	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-16	**15-16**	**Historical**	**14 Jun 2016**	**4.57**	**6.1**	**Historical**	<2.00	<6.00	<2.00	<4.00	<6.00	<4.00	<4.00	<4.00	-	<6.00	<6.00	**1,100**	**16**	**1,400**	**3,400**	**9.2**	<2.00	<2.00	<2.00	<2.00	<4.00	<4.00	<8.00	<20.0	<2.00	<4.00	<2.00	<4.00	<2.00	<6.00	<4.00	<20.0	<20.0	<4.00	<2.00
15-16	**MW15-16**	**6639055**	**04 Apr 2025**	**4.57**	**6.1**	**25Z267371**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-17	**15-17**	**Historical**	**14 Jun 2016**	**5.79**	**7.32**	**Historical**	<0.10	<0.30	<0.10	<0.20	<0.30	<0.20	<0.20	<0.20	-	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	<0.10	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-17	**MW15-17**	**6624607**	**28 Mar 2025**	**5.79**	**7.32**	**25Z265059**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
15-18	**15-18**	**Historical**	**14 Jun 2016**	**1.52**	**3.05**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	**15-19**	**Historical**	**14 Jun 2016**	**2.74**	**4.26**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	**DUP2**	**Historical**	**14 Jun 2016**	**2.74**	**4.26**	**Historical**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	**MW15-19**	**6611182**	**25 Mar 2025**	**2.74**	**4.26**	**25Z264070**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-02	**MW25-02**	**6639056**	**03 Apr 2025**	**3.05**	**6.1**	**25Z267371**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-03	**MW25-03**	**6625465**	**27 Mar 2025**	**1.83**	**4.88**	**25Z265216**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-04	**MW25-04**	**6639057**	**03 Apr 2025**	**3.05**	**3.65**	**25Z267371**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-05	**MW25-05**	**6639058**	**03 Apr 2025**	**3.65**	**5.49**	**25Z267371**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-06	**DUP02**	**6616648**	**26 Mar 2025**	**2.71**	**5.76**	**25Z264766**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	1.12	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-06	**MW25-06**	**6616647**	**26 Mar 2025**	**2.71**	**5.76**	**25Z264766**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	1.21	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-07	**DUP01**	**6611179**	**25 Mar 2025**	**2.13**	**5.18**	**25Z264070**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-07	**MW25-07**	**6611173**	**25 Mar 2025**	**2.13**	**5.18**	**25Z264070**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10
25-08	**MW25-08**	**6625531**	**27 Mar 2025**	**3.05**	**6.1**	**25Z265216**	<0.10	<0.30	<0.10	<0.20	-	<0.20	<0.20	<0.20	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.17	<0.10	<0.10	<0.10	<0.10	<0.20	<0.40	<0.40	<1.0	<0.10	<0.20	<0.10	<0.20	-	<0.30	<0.20	<1.0	<1.0	<0.20	<0.10

Figures

Legend:

Phase Two Property Boundary

FIGURE 1

PHASE TWO PROPERTY LOCATION MAP

1309 CARLING AVENUE,
OTTAWA, ONTARIO

Notes:
1) Map Projection: NAD 1983 CSRS UTM Zone 18N
2) Imagery Credits: World Topographic Map: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Ville de Gatineau, Esri Canada, Esri, TomTom, Garmin, SafeGraph,

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OFFICE LOCATION: WATERLOO		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:10,000	PAGE SIZE: 8.5 x 11 in	CHECKED: SA	TRUE NORTH
		DRAWN: JK	0 100 200 300 m

Path: P:\GIS\TR1363B Westgate Carling Ottawa\ArcPro\Westgate_Carling\Westgate_Carling.aprx /Figure 1 - Site Location PH2 Last Revised: 4/29/2025 Author: lkasunic

Legend:

- Previous Monitoring Well (Golder, 2015)
- Previous Borehole (Golder, 2015)
- Phase Two Property Boundary

Notes:
1) Map Projection: NAD 1983 CSRS UTM Zone 18N
2) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 2

PHASE TWO PROPERTY LAYOUT PLAN

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: WATERLOO		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: SA	TRUE NORTH; 0 10 20 30 Meters
		DRAWN: JK	

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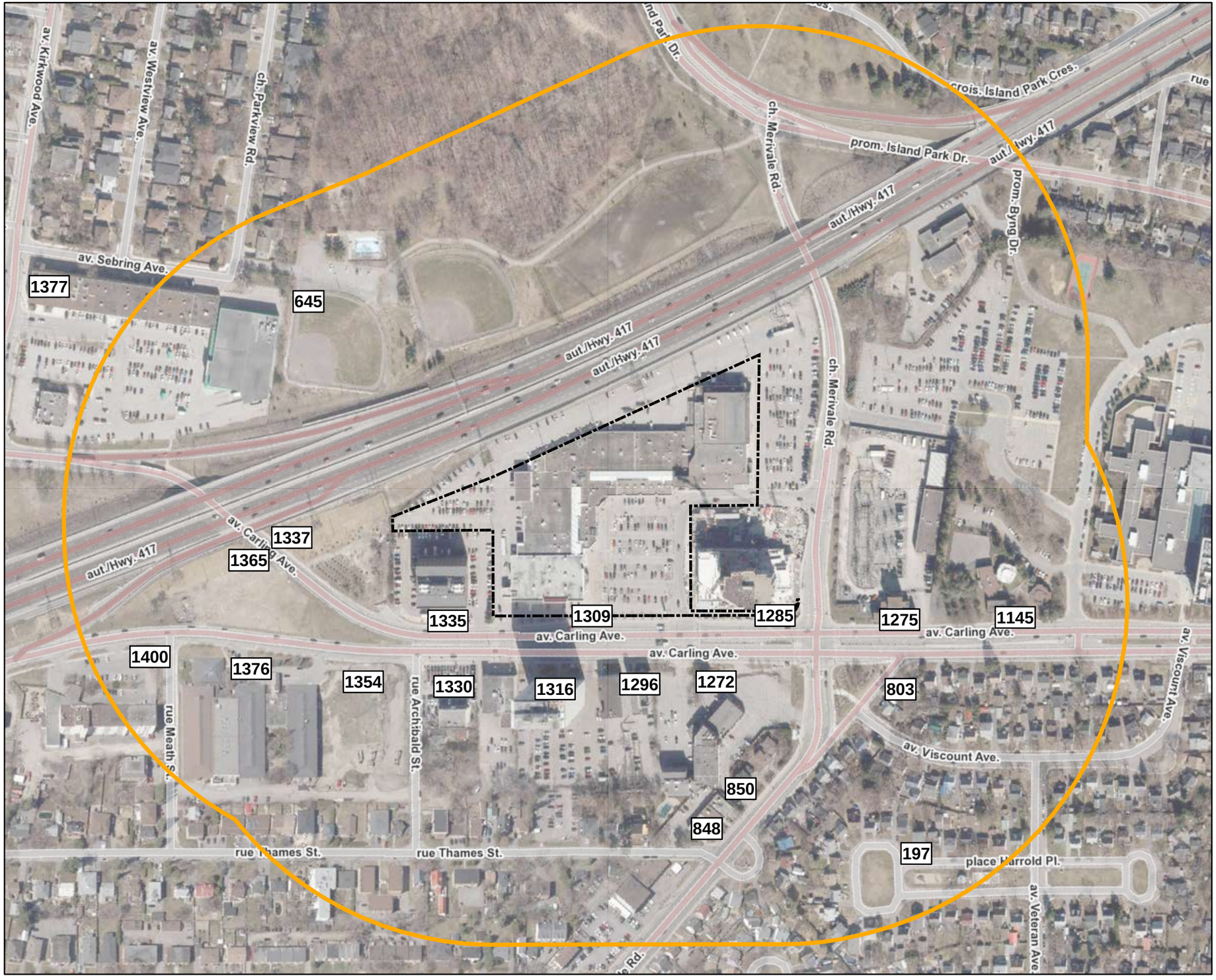

Legend:

- Phase One Study Area (250 m from Phase One Property Boundary)
- Phase One Property Boundary

Notes:
1) Map Projection: NAD 1983 CSRS UTM Zone 18N
2) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 3

PHASE ONE STUDY AREA

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: WATERLOO		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 10-Apr-2025	DATE REVISED: 10-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:3,000	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 25 50 75 Meters

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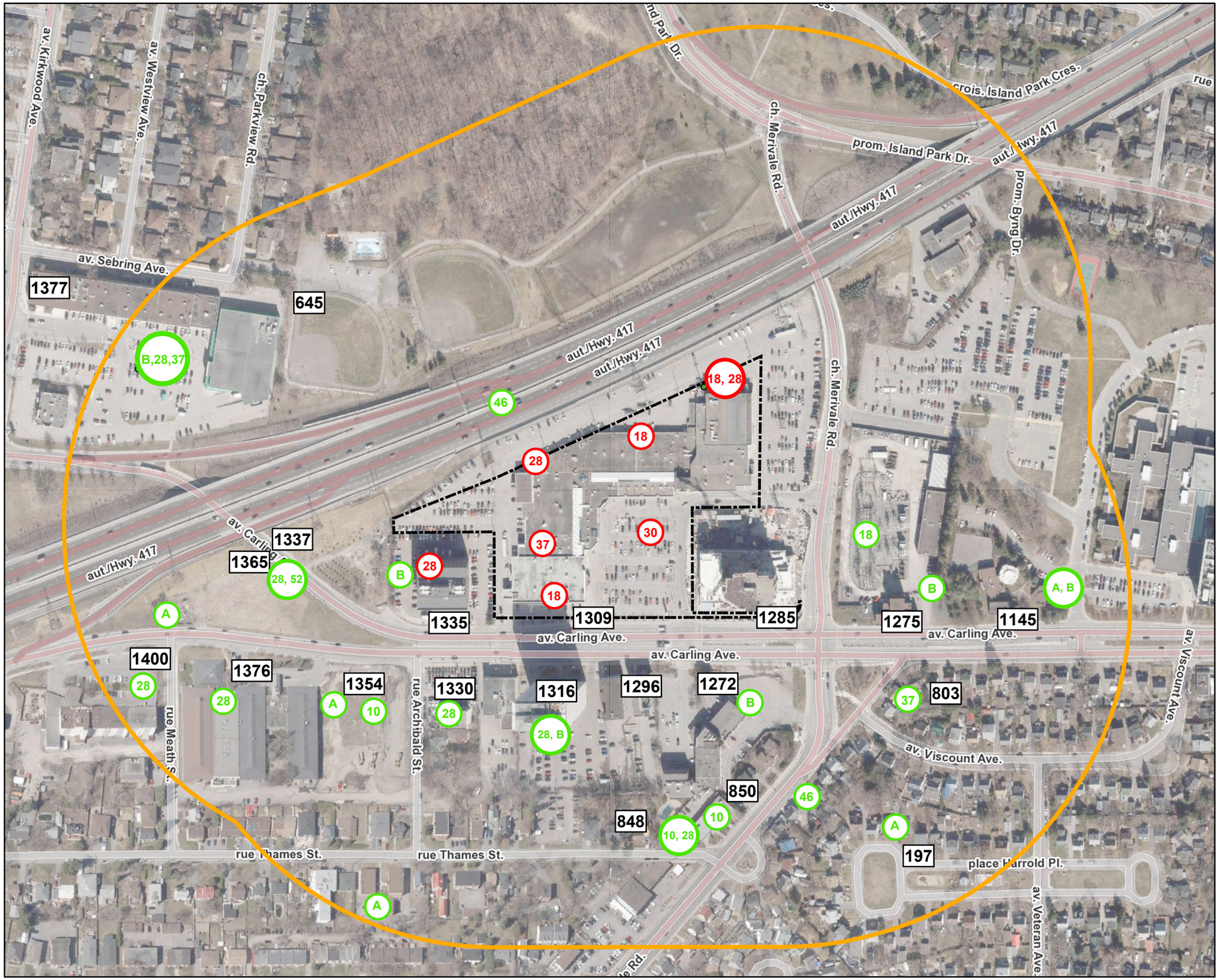

Legend:

- Phase One Study Area (250 m from Phase One Property Boundary)
- Phase One Property Boundary
- 18 — Off-Site PCA not resulting in an APEC
- 30 — PCA resulting in an APEC

Potentially Contaminating Activities
#10 - Commercial Autobody Shops
#18 - Electricity Generation, Transformation and Power Stations
#28 - Gasoline and Associated Products Storage in Fixed Tanks
#30 - Importation of Fill Material of Unknown Quality
#37 - Operation of Dry Cleaning Equipment
#46 - Rail Yards, Tracks and Spurs

A - Non-Defined PCA - Spills
B - Non-Defined PCA - Waste Generation

Notes:
APEC - Area of Potential Environmental Concern
PCA - Potentially Contaminated Activity
1) Map Projection: NAD 1983 CSRS UTM Zone 18N
2) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 4

POTENTIALLY CONTAMINATED ACTIVITIES (PCA)

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: WATERLOO		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 22-Apr-2025	DATE REVISED: 22-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:3,000	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 25 50 75 Meters

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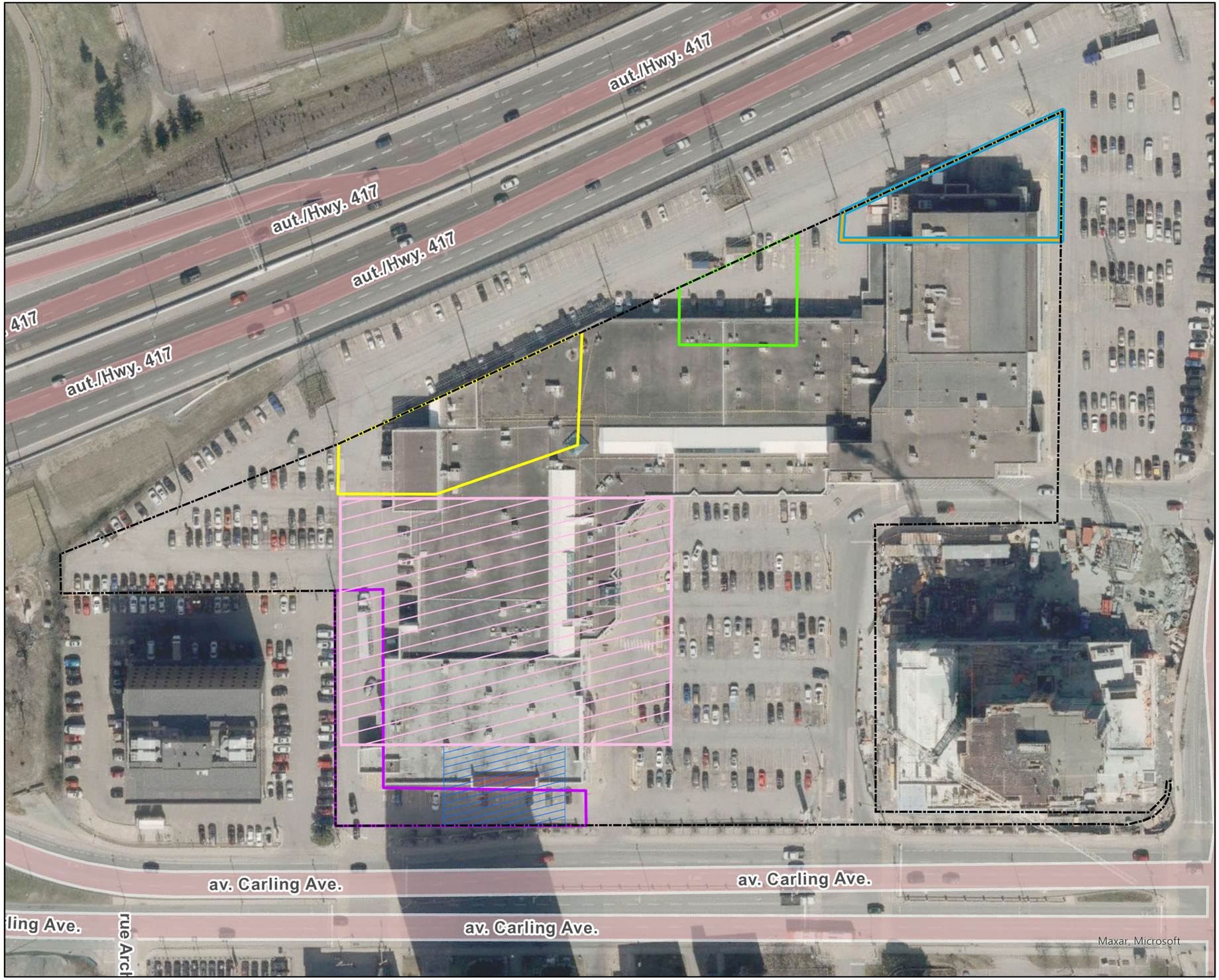

Legend:

- Phase One Property Boundary

APEC

- APEC #1 - Former Dry Cleaning Operations
- APEC #2 - Former Hydrocarbon Storage
- APEC #3 - Former Hydrocarbon Storage
- APEC #4 - Electrical Vault / Transformer
- APEC #5 - Electrical Vault / Transformer
- APEC #6 - Former Hydrocarbon Storage (off-site)
- APEC #7 - FIll Material (site wide)
- APEC #8 - Electrical Transformer

Notes:
1) Map Projection: NAD 1983 CSRS UTM Zone 18N
2) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 5
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: WATERLOO		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: JS	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

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Legend:

- Borehole (Geosyntec)
- Monitoring Well (Geosyntec)
- Previous Borehole (Golder)
- Previous Monitoring Well (Golder)
- Unlocatable Previous Monitoring Well (Golder)
- Phase Two Property Boundary

Notes:
1) Map Projection: NAD 1983 MTM 9
2) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 6
SOIL AND GROUNDWATER SAMPLING LOCATION PLAN

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: GUELPH		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 23-Apr-2025	DATE REVISED: 23-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

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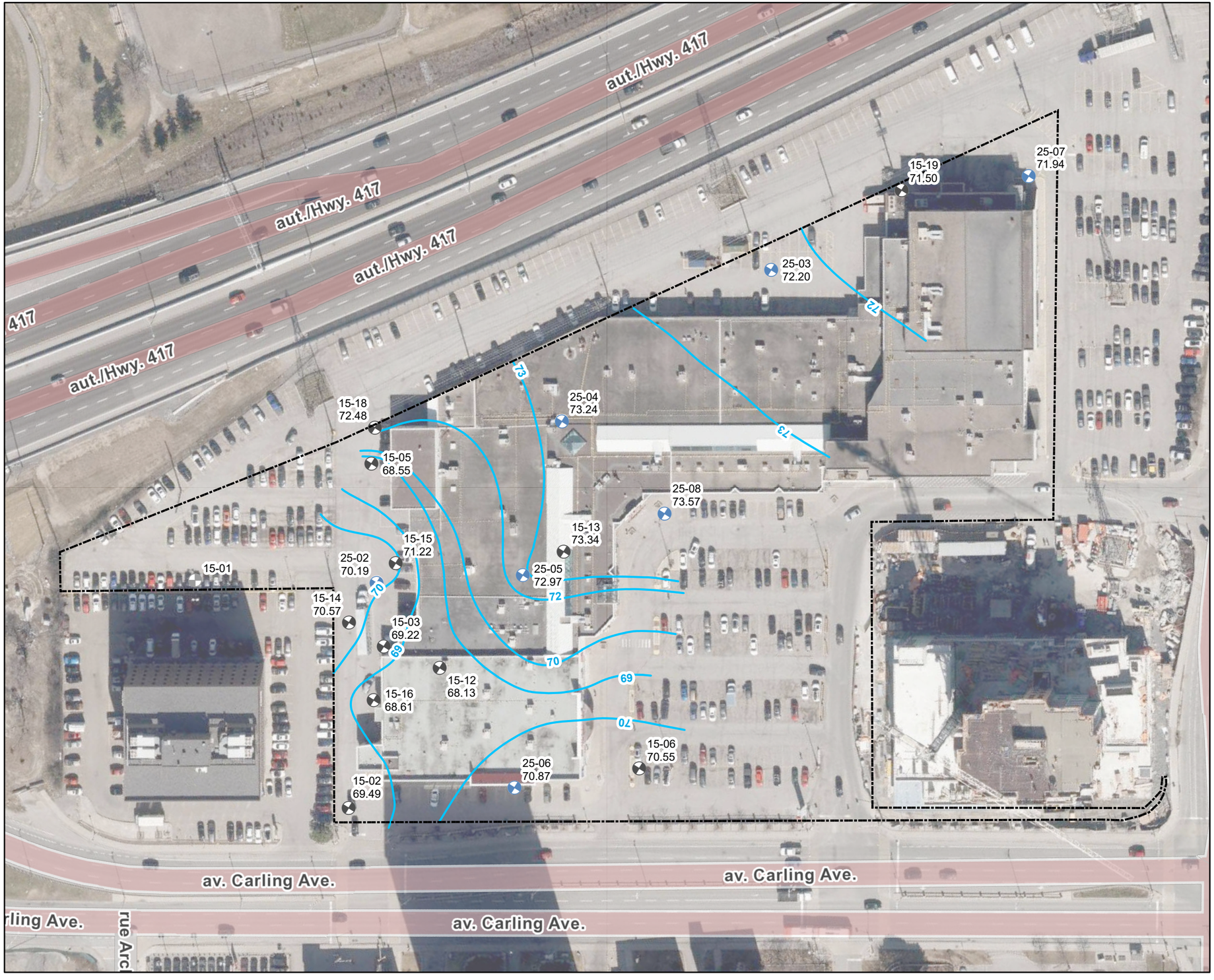

Legend:

- Unlocatable Previous Monitoring Well (Golder)
- Monitoring Well (Geosyntec)
- Previous Monitoring Well (Golder)
- Phase Two Property Boundary
- 15-19 → Sample Location
- 71.50 → Groundwater Level - April 11, 2025 (m amsl)

Notes:
m amsl - metres above mean sea level
1) Map Projection: NAD 1983 MTM 9
2) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 7
GROUNDWATER ELEVATIONS (M AMSL) AND INFERRED FLOW DIRECTION - APRIL 2025

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: GUELPH		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 01-May-2025	DATE REVISED: 01-May-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

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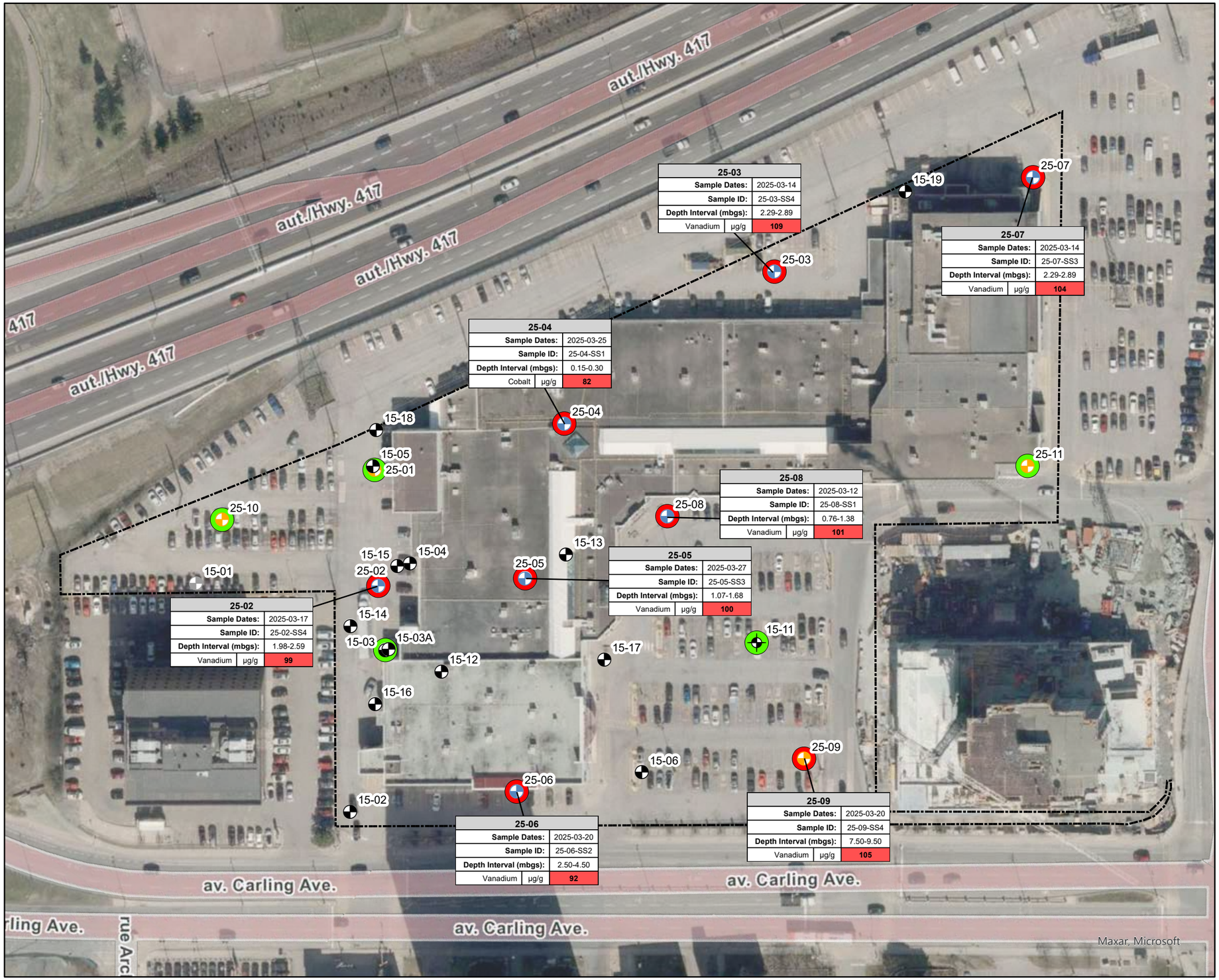

Legend:

- Borehole (Geosyntec)
- Monitoring Well (Geosyntec)
- Previous Borehole (Golder)
- Previous Monitoring Well (Golder)
- Unlocatable Previous Monitoring Well (Golder)
- Phase Two Property Boundary
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS
- Exceeds Table 3 (Coarse) SCS

Parameter	Table 3 SCS	Units
Cobalt	80	µg/g
Vanadium	86	µg/g

Notes:
1) Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2) Map Projection: NAD 1983 MTM 9
3) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 8
METALS - EXCEEDANCES IN SOIL

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: GUELPH		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

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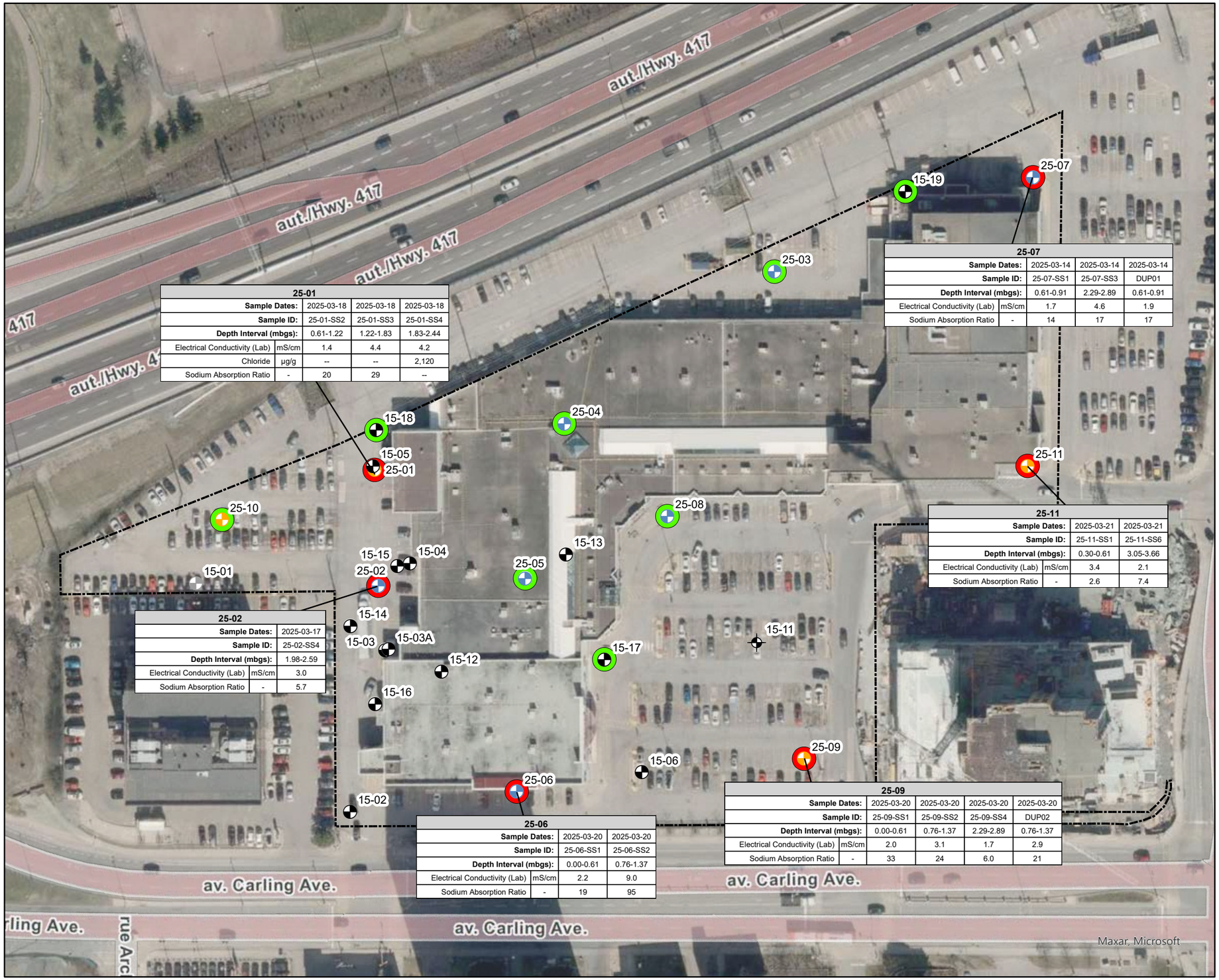

25-01				
Sample Dates:		2025-03-18	2025-03-18	2025-03-18
Sample ID:		25-01-SS2	25-01-SS3	25-01-SS4
Depth Interval (mbgs):		0.61-1.22	1.22-1.83	1.83-2.44
Electrical Conductivity (Lab)	mS/cm	1.4	4.4	4.2
Chloride	µg/g	--	--	2,120
Sodium Absorption Ratio	-	20	29	--

25-02		
Sample Dates:		2025-03-17
Sample ID:		25-02-SS4
Depth Interval (mbgs):		1.98-2.59
Electrical Conductivity (Lab)	mS/cm	3.0
Sodium Absorption Ratio	-	5.7

25-06			
Sample Dates:		2025-03-20	2025-03-20
Sample ID:		25-06-SS1	25-06-SS2
Depth Interval (mbgs):		0.00-0.61	0.76-1.37
Electrical Conductivity (Lab)	mS/cm	2.2	9.0
Sodium Absorption Ratio	-	19	95

25-07				
Sample Dates:		2025-03-14	2025-03-14	2025-03-14
Sample ID:		25-07-SS1	25-07-SS3	DUP01
Depth Interval (mbgs):		0.61-0.91	2.29-2.89	0.61-0.91
Electrical Conductivity (Lab)	mS/cm	1.7	4.6	1.9
Sodium Absorption Ratio	-	14	17	17

25-09					
Sample Dates:		2025-03-20	2025-03-20	2025-03-20	2025-03-20
Sample ID:		25-09-SS1	25-09-SS2	25-09-SS4	DUP02
Depth Interval (mbgs):		0.00-0.61	0.76-1.37	2.29-2.89	0.76-1.37
Electrical Conductivity (Lab)	mS/cm	2.0	3.1	1.7	2.9
Sodium Absorption Ratio	-	33	24	6.0	21

25-11			
Sample Dates:		2025-03-21	2025-03-21
Sample ID:		25-11-SS1	25-11-SS6
Depth Interval (mbgs):		0.30-0.61	3.05-3.66
Electrical Conductivity (Lab)	mS/cm	3.4	2.1
Sodium Absorption Ratio	-	2.6	7.4

Legend:

- Borehole (Geosyntec)
- Monitoring Well (Geosyntec)
- Previous Borehole (Golder)
- Previous Monitoring Well (Golder)
- Unlocatable Previous Monitoring Well (Golder)
- Phase Two Property Boundary
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations deemed not to exceed the Table 3 (coarse) SCS under Section 49.1 of O.Reg 153

Parameter	Table 3 SCS	Units
Electrical Conductivity (Lab)	1.4	mS/cm
Sodium Absorption Ratio	12	-

Notes:
1) Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2) Map Projection: NAD 1983 MTM 9
3) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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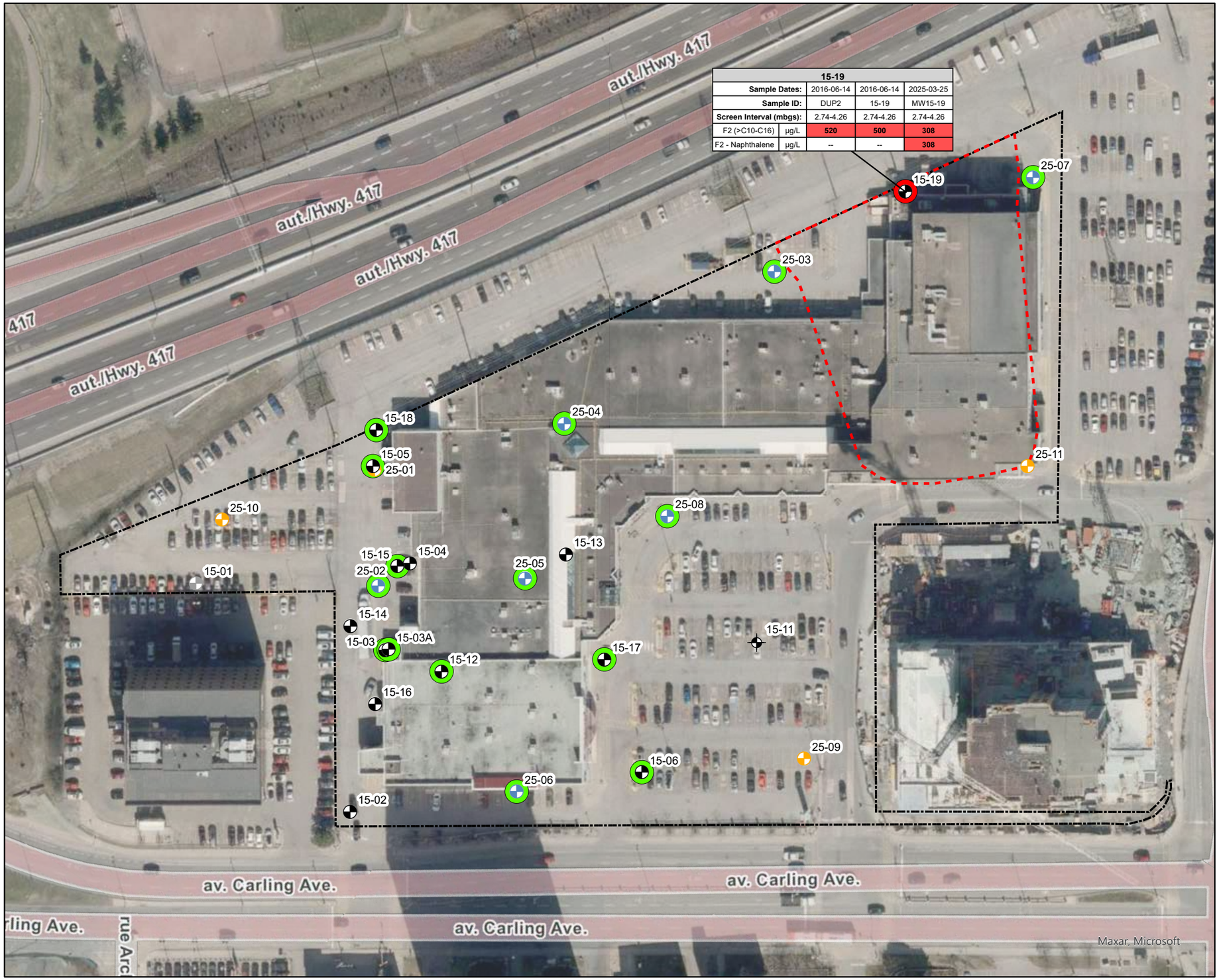
FIGURE 9
ELECTRICAL CONDUCTIVITY AND SODIUM ADSORPTION RATIO - EXCEEDANCES IN SOIL

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: GUELPH		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

P:\GIS\TR1363B Westgate Carling Ottawa\Arc\Pro\Westgate_Carling\Westgate_Carling.aprx guelph-01\data\GIS\TR1363B Westgate Carling Ottawa\Illustrator\F9 - Electrical Conductivity and Sodium Adsorption Ratio - Exceedances in Soil PH2



Legend:

- Borehole (Geosyntec)
- Monitoring Well (Geosyntec)
- Previous Borehole (Golder)
- Previous Monitoring Well (Golder)
- Unlocatable Previous Monitoring Well (Golder)
- Phase Two Property Boundary
- Extent of PHCs in groundwater greater than Table 3 (Coarse) SCS
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS

Parameter	Table 3 SCS	Units
F2 (>C10-C16)	150	µg/L
F2 - Naphthalene	150	µg/L

Notes:
1) Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2) Map Projection: NAD 1983 MTM 9
3) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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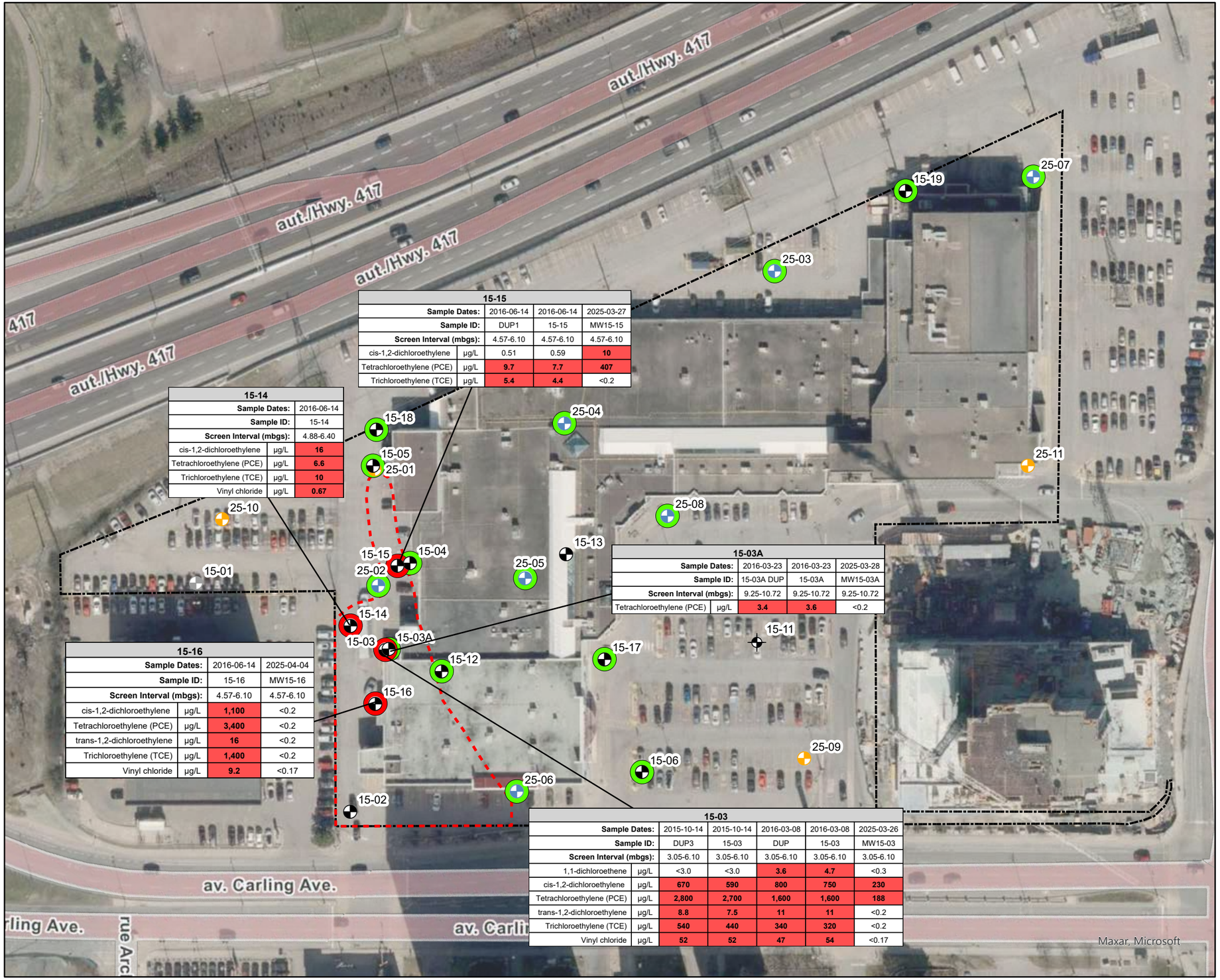
FIGURE 10
PETROLEUM HYDROCARBONS - EXCEEDANCES IN GROUNDWATER

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: GUELPH		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

P:\GIS\TR1363B Westgate Carling Ottawa\ArcPro\Westgate_Carling\Westgate_Carling.aprx guelph-01\data\GIS\TR1363B Westgate Carling Ottawa\Illustrator\F10 - Petroleum Hydrocarbons - Exceedances in Groundwater PH2.ai



15-15				
Sample Dates:		2016-06-14	2016-06-14	2025-03-27
Sample ID:		DUP1	15-15	MW15-15
Screen Interval (mbgs):		4.57-6.10	4.57-6.10	4.57-6.10
cis-1,2-dichloroethylene	µg/L	0.51	0.59	**10**
Tetrachloroethylene (PCE)	µg/L	**9.7**	**7.7**	**407**
Trichloroethylene (TCE)	µg/L	**5.4**	**4.4**	<0.2

15-14		
Sample Dates:		2016-06-14
Sample ID:		15-14
Screen Interval (mbgs):		4.88-6.40
cis-1,2-dichloroethylene	µg/L	**16**
Tetrachloroethylene (PCE)	µg/L	**6.6**
Trichloroethylene (TCE)	µg/L	**10**
Vinyl chloride	µg/L	**0.67**

15-03A			
Sample Dates:	2016-03-23	2016-03-23	2025-03-28
Sample ID:	15-03A DUP	15-03A	MW15-03A
Screen Interval (mbgs):	9.25-10.72	9.25-10.72	9.25-10.72
Tetrachloroethylene (PCE) µg/L	**3.4**	**3.6**	<0.2

15-16			
Sample Dates:		2016-06-14	2025-04-04
Sample ID:		15-16	MW15-16
Screen Interval (mbgs):		4.57-6.10	4.57-6.10
cis-1,2-dichloroethylene	µg/L	**1,100**	<0.2
Tetrachloroethylene (PCE)	µg/L	**3,400**	<0.2
trans-1,2-dichloroethylene	µg/L	**16**	<0.2
Trichloroethylene (TCE)	µg/L	**1,400**	<0.2
Vinyl chloride	µg/L	**9.2**	<0.17

15-03						
Sample Dates:		2015-10-14	2015-10-14	2016-03-08	2016-03-08	2025-03-26
Sample ID:		DUP3	15-03	DUP	15-03	MW15-03
Screen Interval (mbgs):		3.05-6.10	3.05-6.10	3.05-6.10	3.05-6.10	3.05-6.10
1,1-dichloroethene	µg/L	<3.0	<3.0	**3.6**	**4.7**	<0.3
cis-1,2-dichloroethylene	µg/L	**670**	**590**	**800**	**750**	**230**
Tetrachloroethylene (PCE)	µg/L	**2,800**	**2,700**	**1,600**	**1,600**	**188**
trans-1,2-dichloroethylene	µg/L	**8.8**	**7.5**	**11**	**11**	<0.2
Trichloroethylene (TCE)	µg/L	**540**	**440**	**340**	**320**	<0.2
Vinyl chloride	µg/L	**52**	**52**	**47**	**54**	<0.17

Legend:

- Borehole (Geosyntec)
- Monitoring Well (Geosyntec)
- Previous Borehole (Golder)
- Previous Monitoring Well (Golder)
- Unlocatable Previous Monitoring Well (Golder)
- Phase Two Property Boundary
- Extent of VOCs in groundwater greater than Table 3 (Coarse) SCS
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS

Parameter	Table 3 SCS	Units
1,1-dichloroethene	1.6	µg/L
cis-1,2-dichloroethylene	1.6	µg/L
Tetrachloroethylene (PCE)	1.6	µg/L
trans-1,2-dichloroethylene	1.6	µg/L
Trichloroethylene (TCE)	1.6	µg/L
Vinyl chloride	0.50	µg/L

Notes:
1) Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2) Map Projection: NAD 1983 MTM 9
3) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 11
VOLATILE ORGANIC COMPOUNDS - EXCEEDANCES IN GROUNDWATER

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: GUELPH		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

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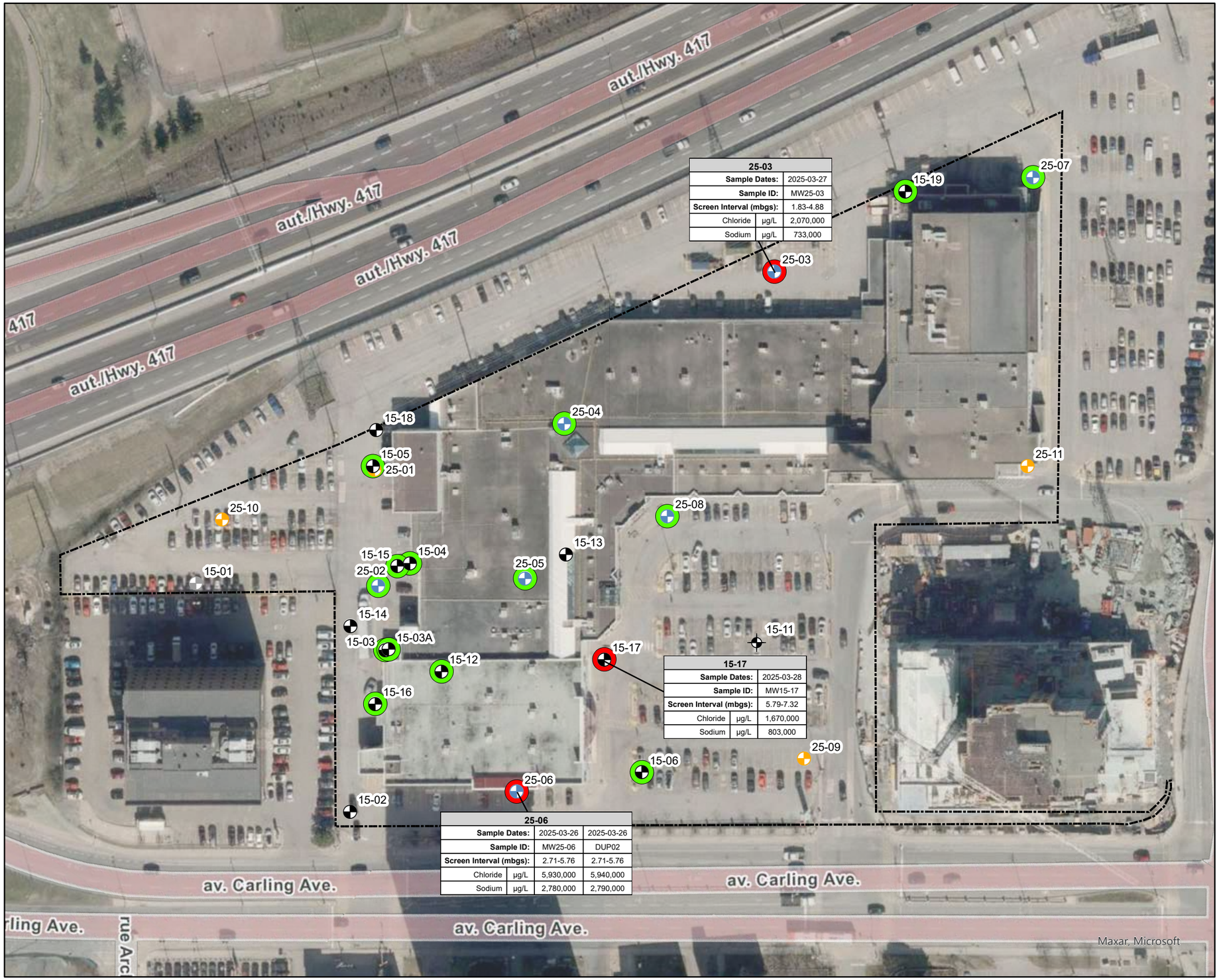

Legend:

- Borehole (Geosyntec)
- Monitoring Well (Geosyntec)
- Previous Borehole (Golder)
- Previous Monitoring Well (Golder)
- Unlocatable Previous Monitoring Well (Golder)
- Phase Two Property Boundary
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations deemed not to exceed the Table 3 (coarse) SCS under Section 49.1 of O.Reg 153

Parameter	Table 3 SCS	Units
Chloride	2,300,000	µg/L
Sodium	490,000	µg/L

Notes:
1) Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2) Map Projection: NAD 1983 MTM 9
3) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 12
SODIUM AND CHLORIDE - EXCEEDANCES IN GROUNDWATER

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: GUELPH		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

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Legend:

- Borehole (Geosyntec)
- Monitoring Well (Geosyntec)
- Previous Borehole (Golder)
- Previous Monitoring Well (Golder)
- Unlocatable Previous Monitoring Well (Golder)
- Cross-Section A-A'
- Cross-Section B-B'
- Phase Two Property Boundary

Notes:
1) Map Projection: NAD 1983 MTM 9
2) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 13
CROSS-SECTION LOCATIONS

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: GUELPH		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 29-Apr-2025	DATE REVISED: 29-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,200	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

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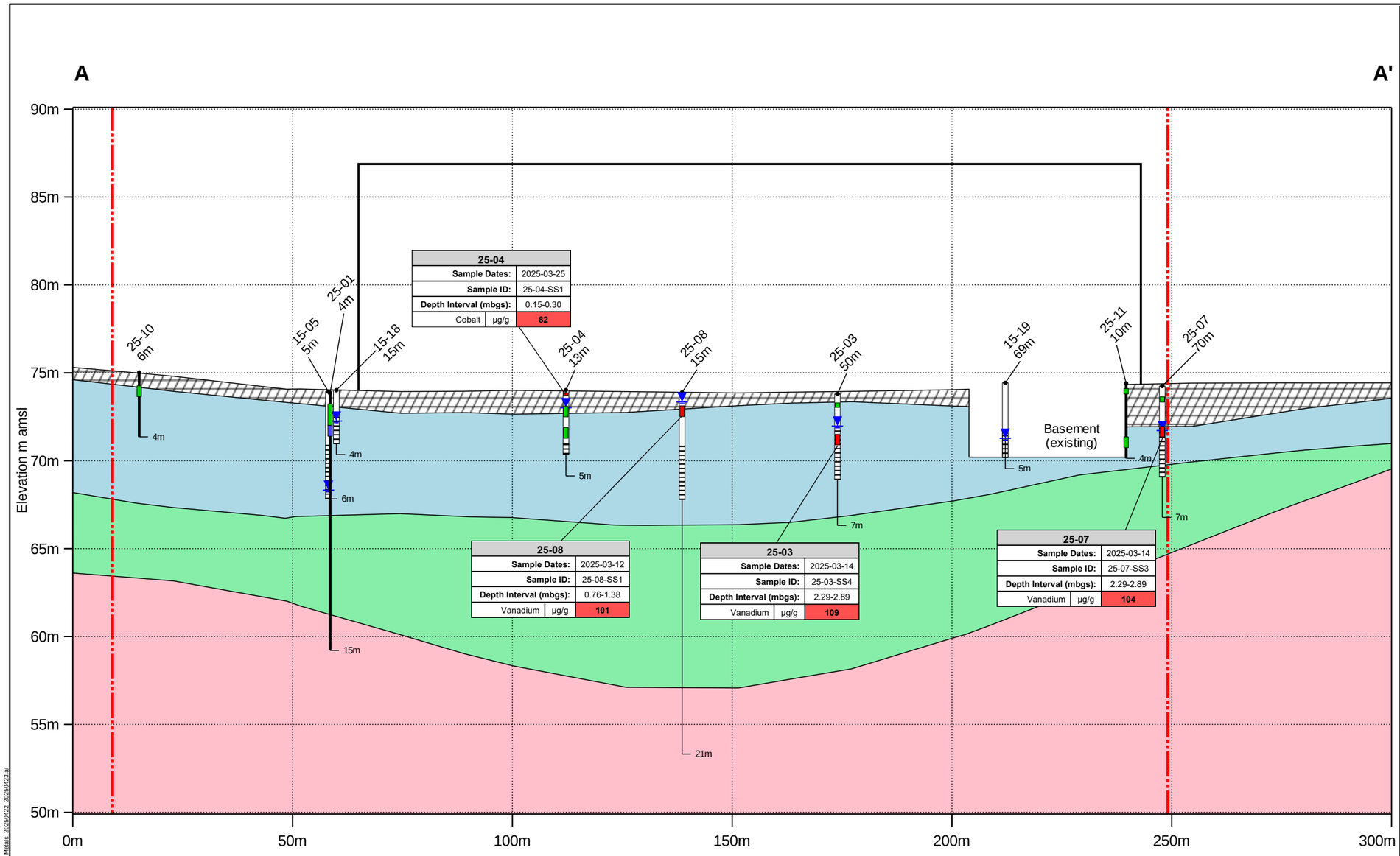


Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock

- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS
- Exceeds Table 3 (Coarse) SCS

Parameter	Table 3 SCS	Units
Cobalt	80	µg/g
Vanadium	86	µg/g

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:1,000
Vertical exaggeration: 4x
0m 50m

Cross-Section A-A' - Metals in Soil

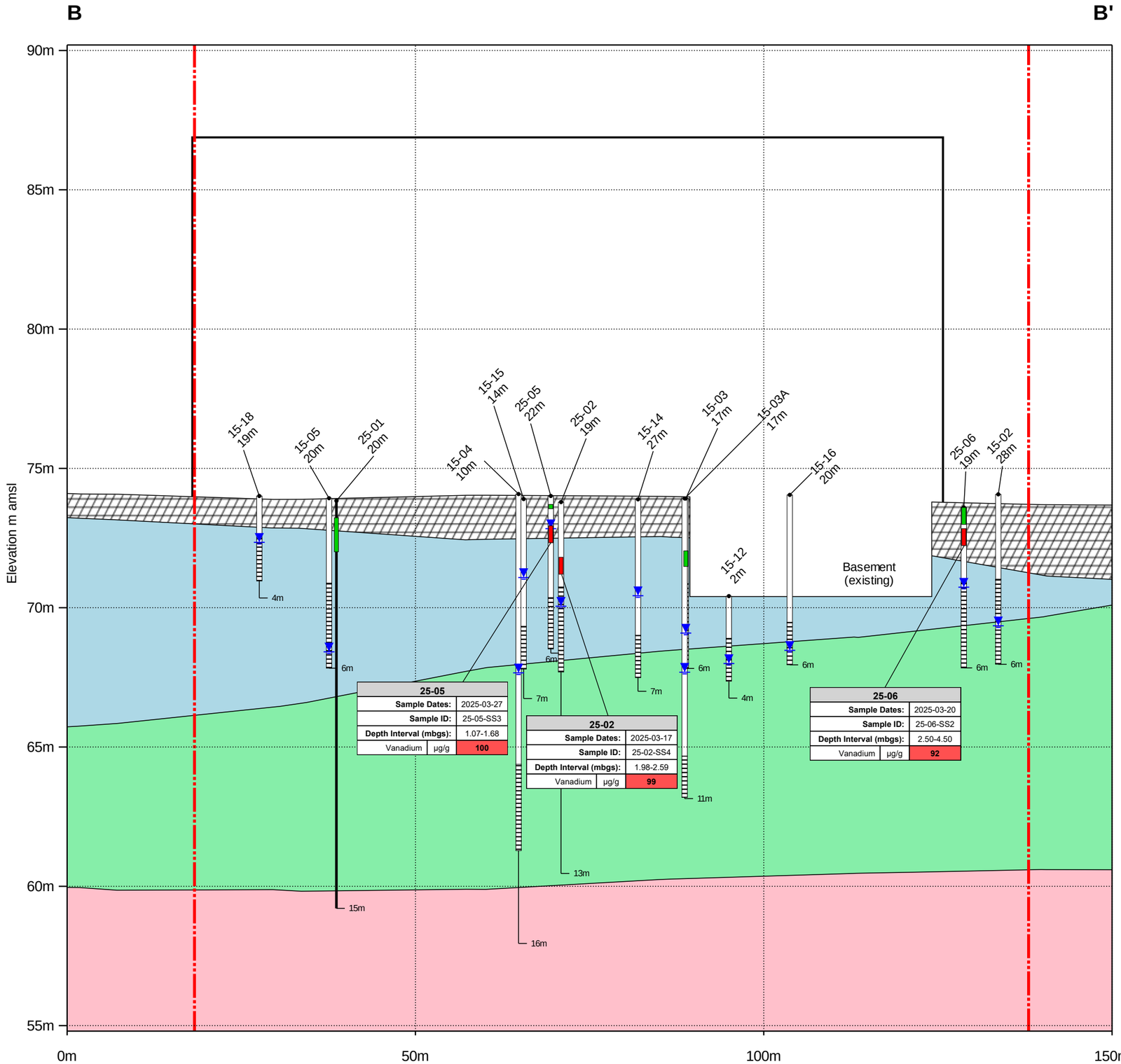
1309 Carling Ave, Ottawa ON

Geosyntec consultants

Guelph | April 2025

Figure **14A**

guelph-01/data/GIS/TR1363B Westgate Carling Ottawa/Illustrator/ F14A_TR1363B_SectionA_A_Soil_Metals_20250422_20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock
- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS
- Exceeds Table 3 (Coarse) SCS

Parameter	Table 3 SCS	Units
Cobalt	80	µg/g
Vanadium	86	µg/g

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:600
Vertical exaggeration: 4x
0m 25m

Cross-Section B-B' - Metals in Soil

1309 Carling Ave, Ottawa ON

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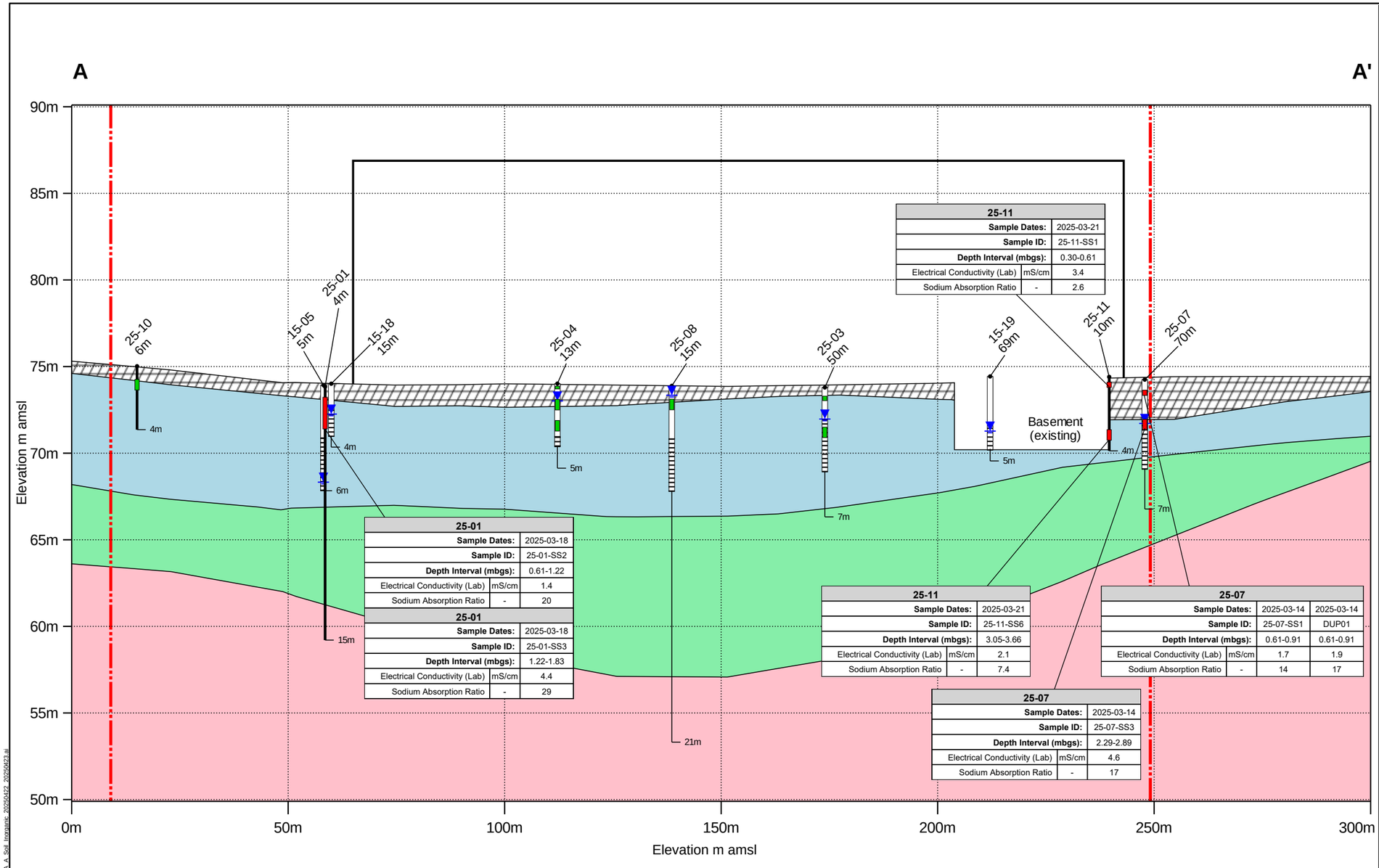
Figure **14B**

guelph-01/data/GIS/TR13638 Westgate Carling Ottawa\Illustrator/ F14B_TR13638_SectionB_B_Soil_Metals_20250422_20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock
- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations deemed not to exceed the Table 3 (coarse) SCS

Parameter	Table 3 SCS	Units
Electrical Conductivity (Lab)	1.4	mS/cm
Sodium Absorption Ratio	12	-

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:1,000
Vertical exaggeration: 4x
0m 50m

Cross-Section A-A' - EC/SAR in Soil

1309 Carling Ave, Ottawa ON

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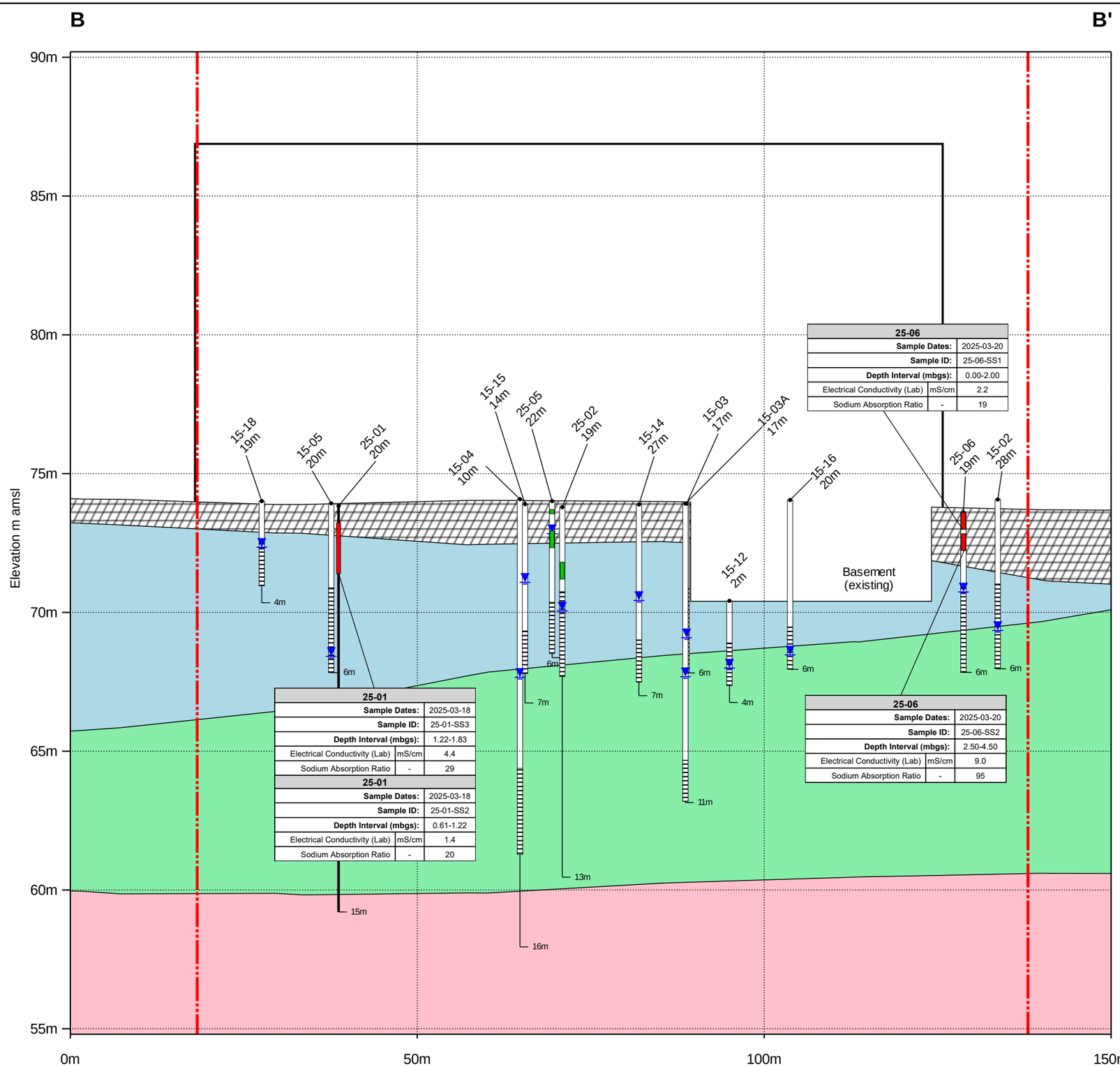
Guelph | April 2025

Figure **15A**

guelph-01/data/GIS/TR1363B Westgate Carling Ottawa/Illustrator/ F15A_TR1363B_SectionA_A_Soil_Inorganic_20250422_20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock
- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations deemed not to exceed the Table 3 (coarse) SCS

Parameter	Table 3 SCS	Units
Electrical Conductivity (Lab)	1.4	mS/cm
Sodium Absorption Ratio	12	-

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:600
Vertical exaggeration: 4x
0m 25m

Cross-Section B-B' - EC SAR in Soil

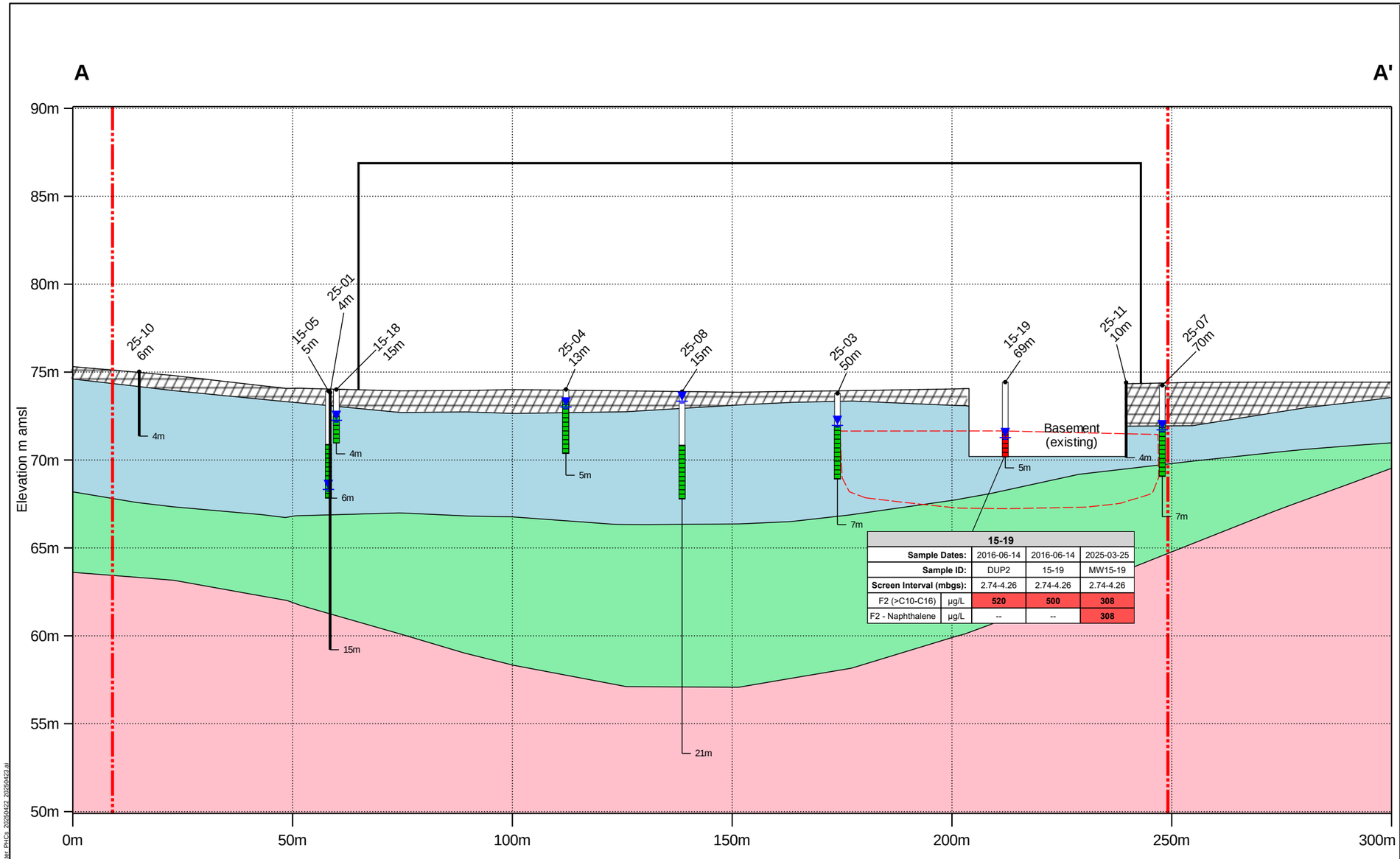
1309 Carling Ave, Ottawa ON

Geosyntec consultants

Guelph | April 2025

Figure **15B**

guelph-01/data/GIS/TR13638 Westgate Carling Ottawa/Illustrator/ F15B_TR13638_Section B_Soil_Inorganic_20250422_20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock
- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS
- Extent of VOCs in groundwater greater than Table 3 (Coarse) SCS
- Exceeds Table 3 (Coarse) SCS

Parameter	Table 3 SCS	Units
F2 (>C10-C16)	150	µg/L
F2 - Naphthalene	150	µg/L

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:1,000
Vertical exaggeration: 4x
0m 50m

Cross-Section A-A' - PHCs in Groundwater

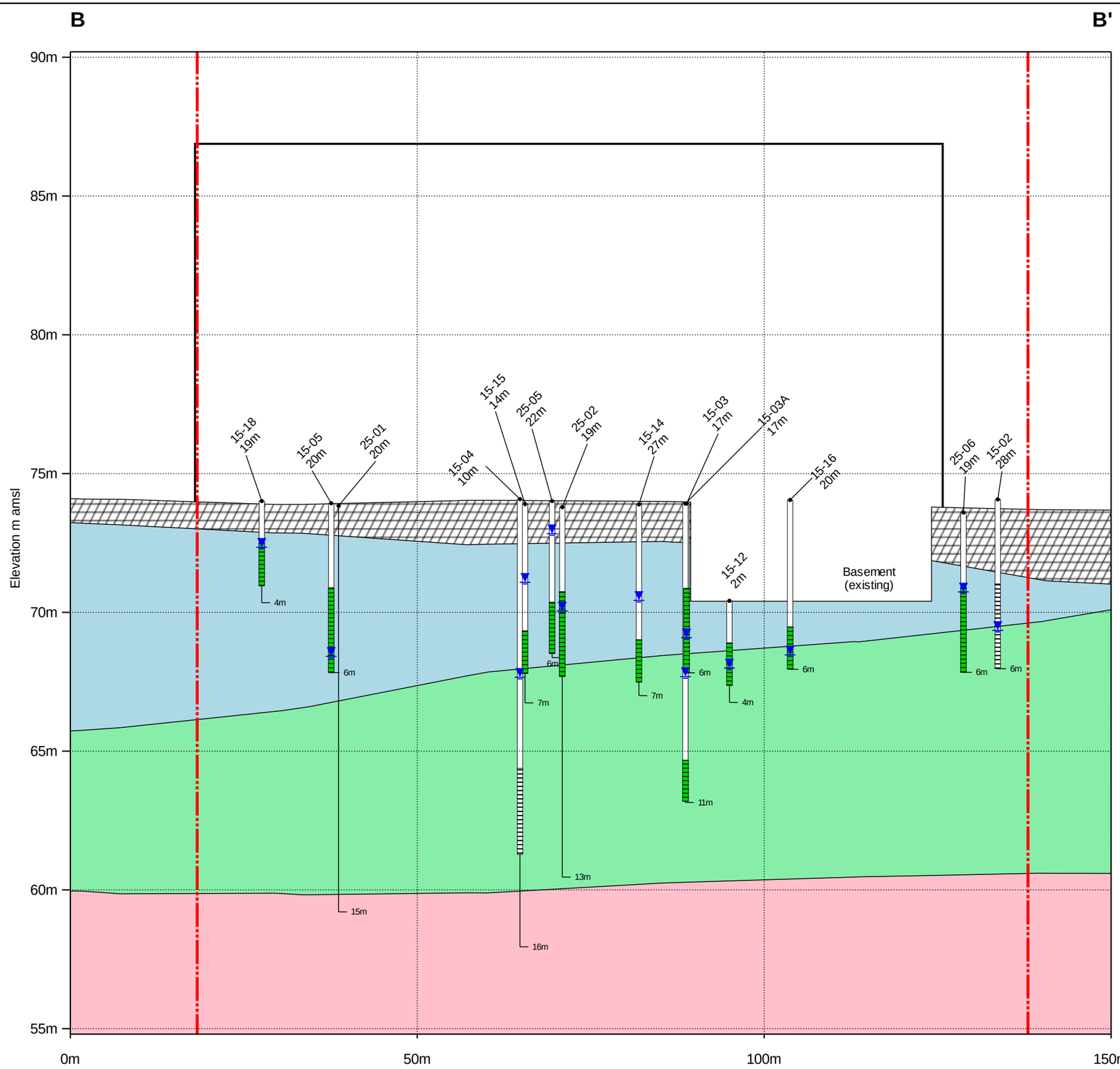
1309 Carling Ave, Ottawa ON

Geosyntec consultants

Guelph | April 2025

Figure **16A**

guelph-01/data/GIS/TR1363B Westgate Carling Ottawa/Illustrator/_F16A_TR1363B_SectionA_A Water PHCs 20250422 20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock

- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m ← Location / Offset distance
- Casing
- Screen
- 6m ← Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS
- Exceeds Table 3 (Coarse) SCS

Parameter	Table 3 SCS	Units
F2 (>C10-C16)	150	µg/L
F2 - Naphthalene	150	µg/L

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:600
Vertical exaggeration: 4x
0m 25m

Cross-Section B-B' - PHCs in Groundwater

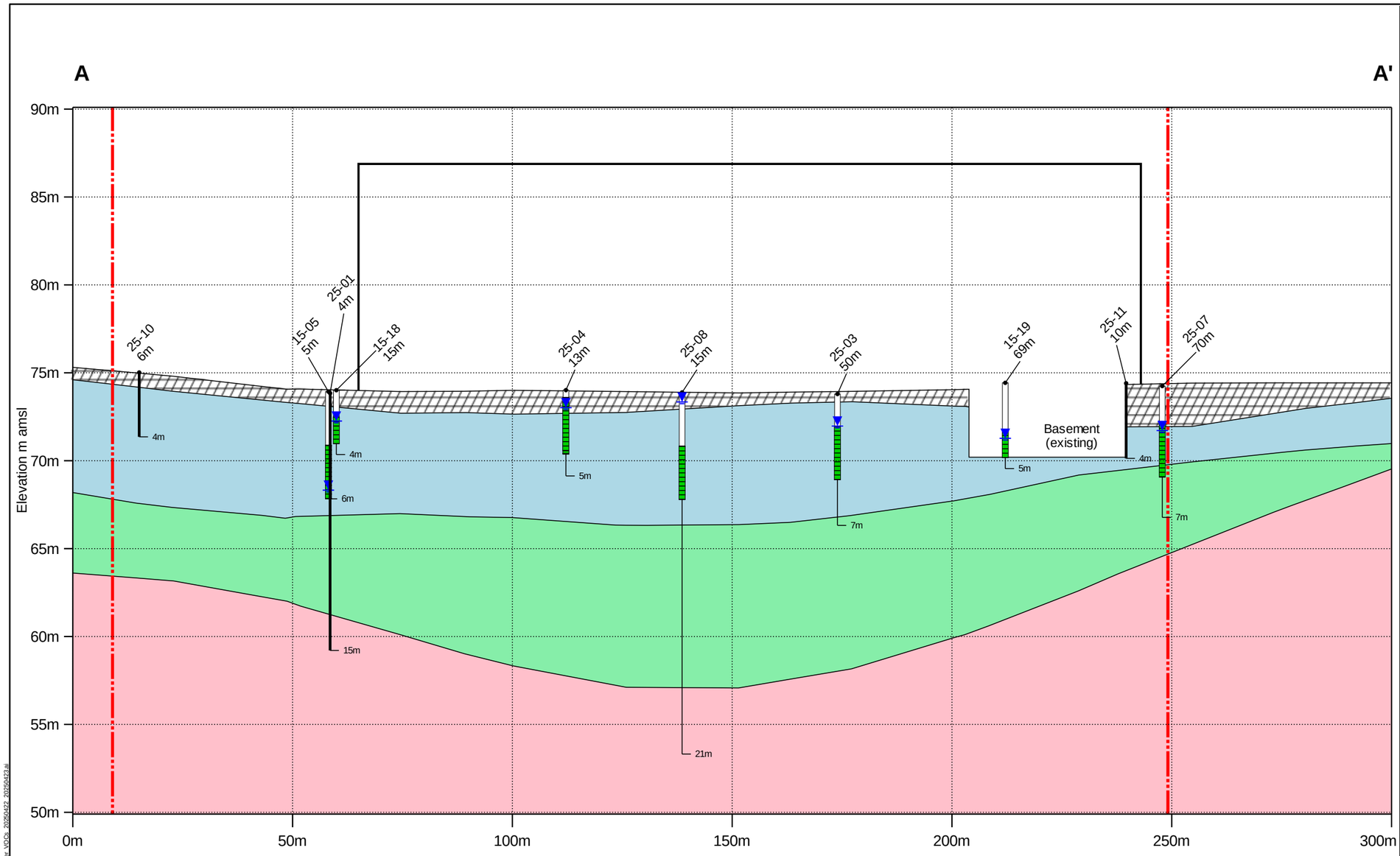
1309 Carling Ave, Ottawa ON

Geosyntec consultants

Guelph | April 2025

Figure **16B**

guelph-01/data/GIS/TR/19363B Westgate Carling Ottawa\Illustrator/ F16B_TR19363B_SectionB_B Water PHCs 20250422 20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock

- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS
- Exceeds Table 3 (Coarse) SCS

Parameter	Table 3 SCS	Units
1,1-dichloroethene	1.6	µg/L
cis-1,2-dichloroethylene	1.6	µg/L
Tetrachloroethylene (PCE)	1.6	µg/L
trans-1,2-dichloroethylene	1.6	µg/L
Trichloroethylene (TCE)	1.6	µg/L
Vinyl chloride	0.50	µg/L

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:1,000
Vertical exaggeration: 4x
0m 50m

Cross-Section A-A' - VOCs in Groundwater

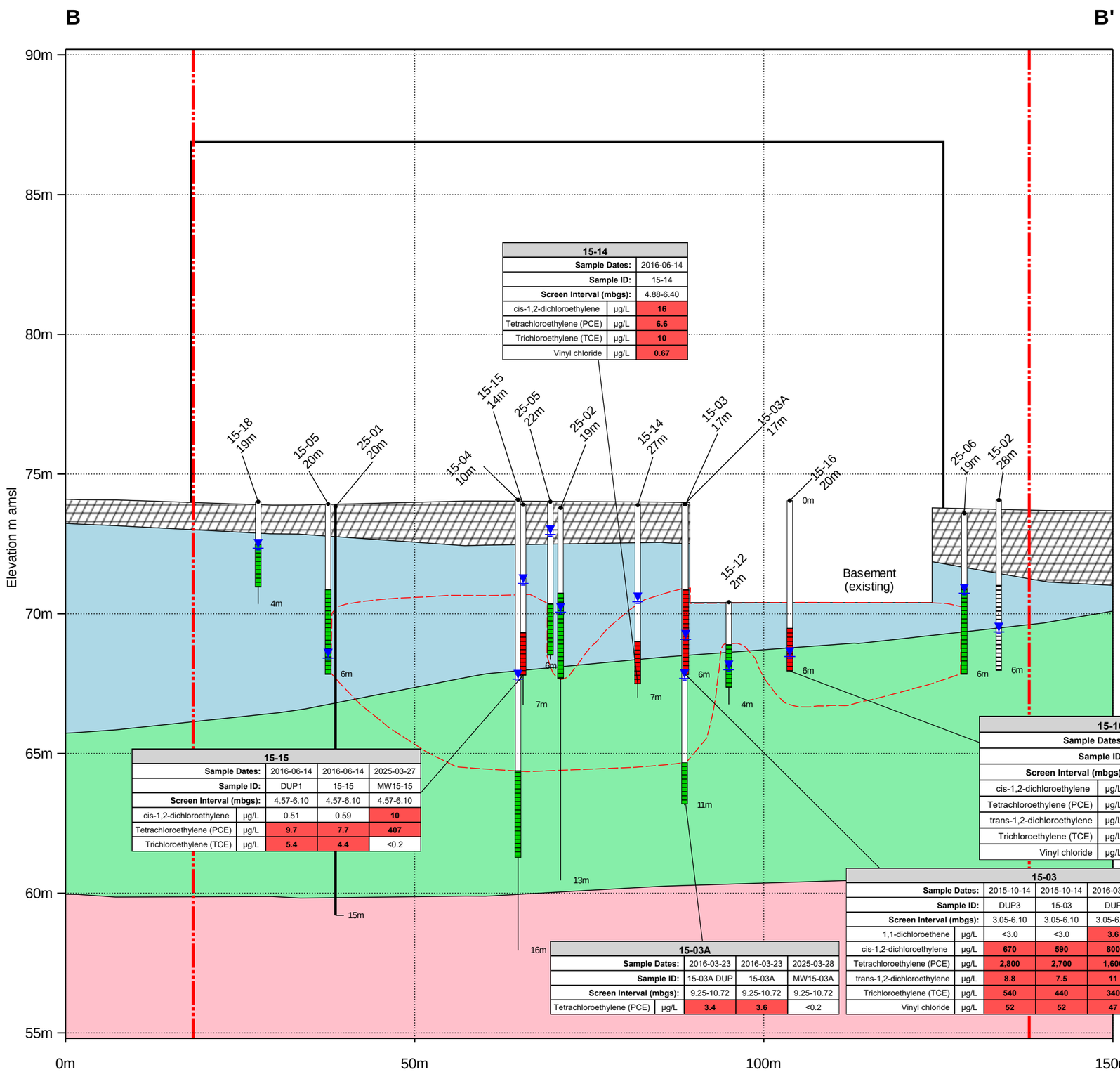
1309 Carling Ave, Ottawa ON

Geosyntec consultants

Guelph | April 2025

Figure **17A**

guelph-01/data/GIS/TR1363B Westgate Carling Ottawa/Illustrator/ F17A_TR1363B_SectionA_A Water_VOCs_20250422_20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock

- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS
- Extent of VOCs in groundwater greater than Table 3 (Coarse) SCS
- Exceeds Table 3 (Coarse) SCS

Parameter	Table 3 SCS	Units
1,1-dichloroethene	1.6	µg/L
cis-1,2-dichloroethylene	1.6	µg/L
Tetrachloroethylene (PCE)	1.6	µg/L
trans-1,2-dichloroethylene	1.6	µg/L
Trichloroethylene (TCE)	1.6	µg/L
Vinyl chloride	0.50	µg/L

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:600
Vertical exaggeration: 4x
0m 25m

Cross-Section B-B' - VOCs in Groundwater

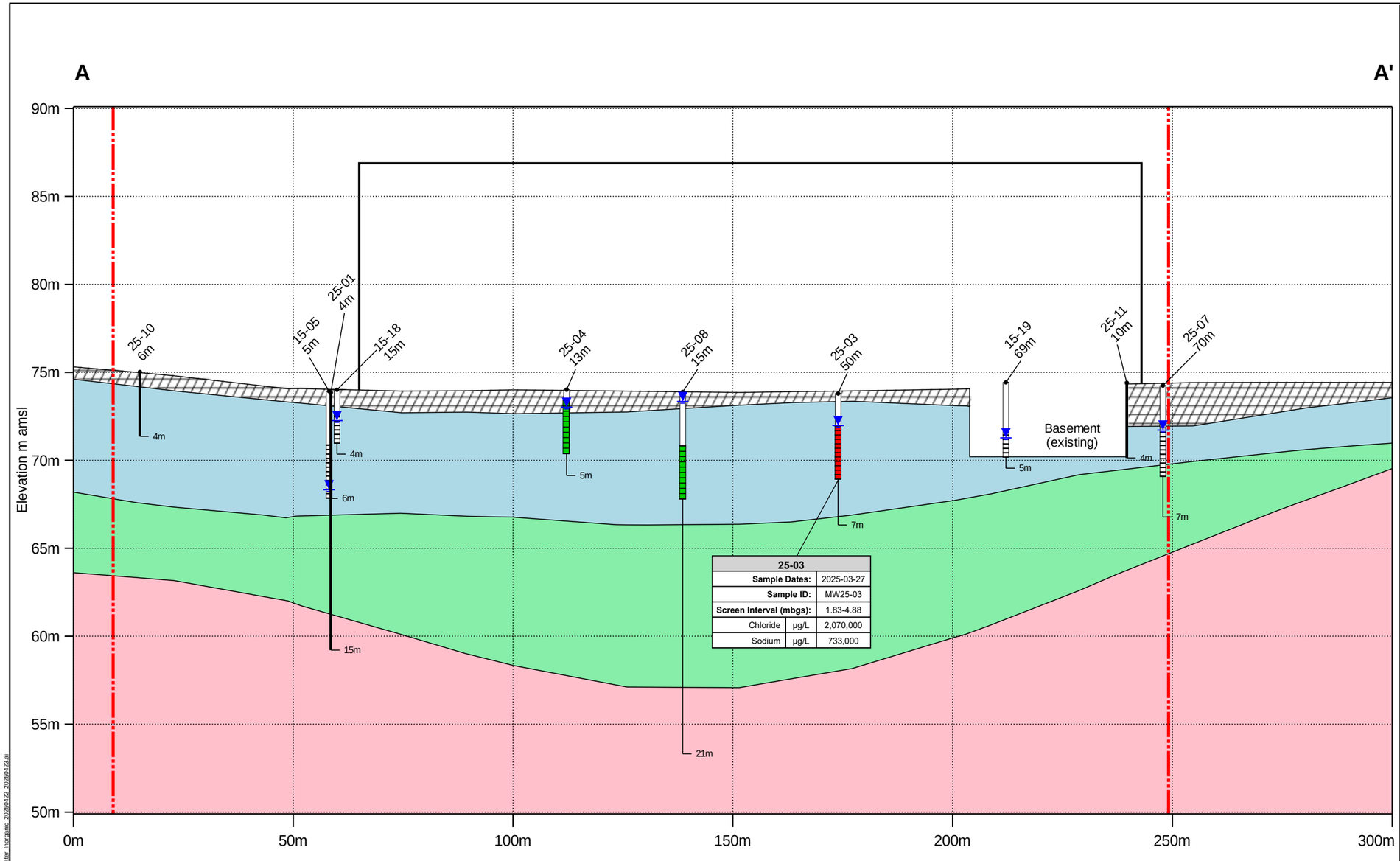
1309 Carling Ave, Ottawa ON

Geosyntec consultants

Guelph | April 2025

Figure **17B**

guelph-01/data/GIS/TR13638 Westgate Carling Ottawa\Illustrator\F17B_TR13638_SectionB_B_Water_VOCs_20250422_20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock
- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations deemed not to exceed the Table 3 (coarse) SCS

Parameter	Table 3 SCS	Units
Chloride	2,300,000	µg/L
Sodium	490,000	µg/L

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:1,000
Vertical exaggeration: 4x
0m 50m

Cross-Section A-A' - Sodium and Chloride in Groundwater

1309 Carling Ave, Ottawa ON

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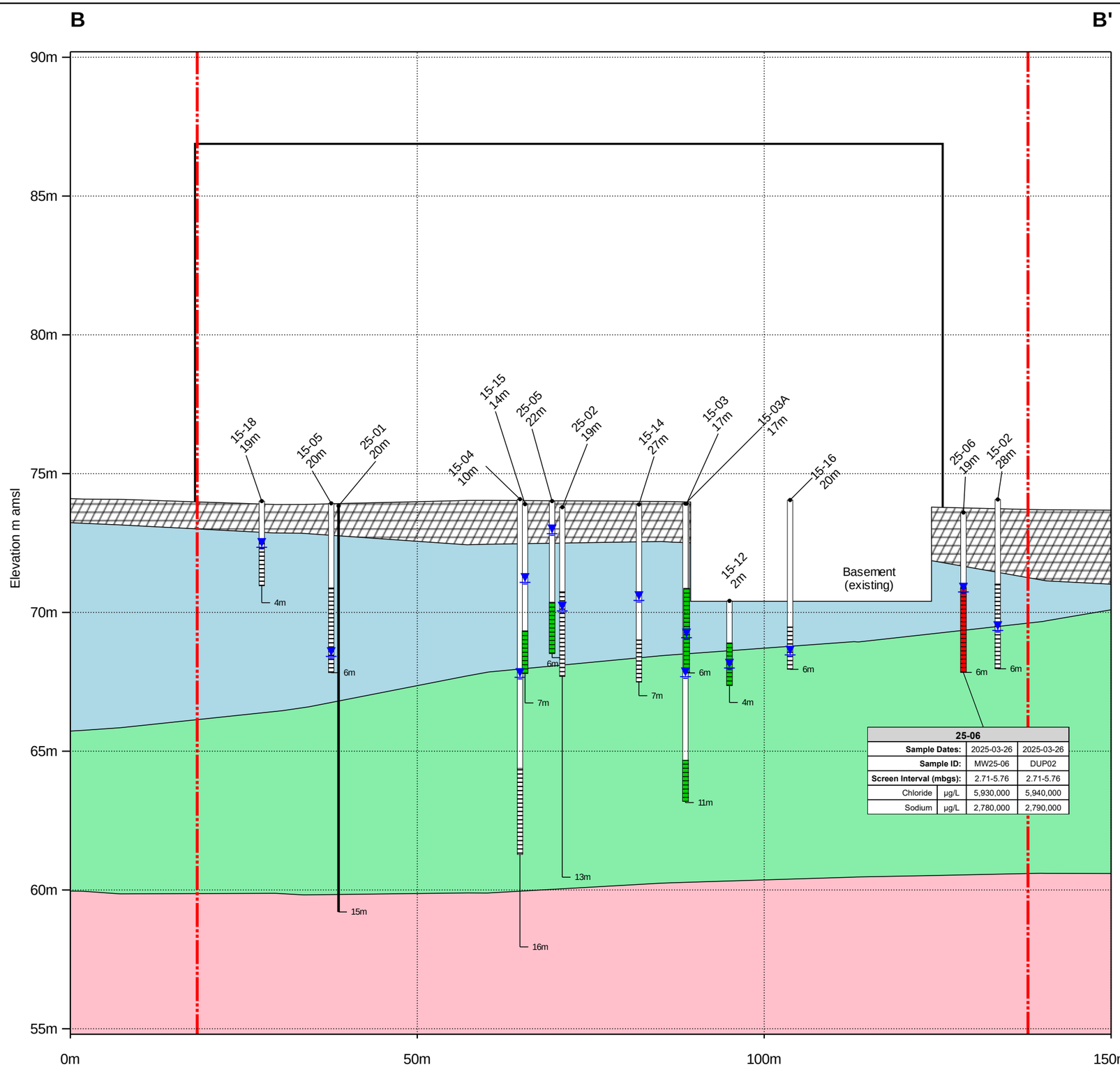
Figure **18A**

guelph-01/data/GIS/TR1363B Westgate Carling Ottawa/Illustrator/ F18A_TR1363B_SectionA_A Water Inorganic_20250422_20250423.ai



Legend

Hydrostratigraphic Unit

- Fill
- Glacial Till
- Silty Clay
- Bedrock
- Existing Building
- Phase Two Property Boundary
- Water Level (April 11, 2025)
- 15-02 28m — Location / Offset distance
- Casing
- Screen
- 6m — Total depth of Borehole
- All concentrations less Table 3 (coarse) SCS
- One or more concentrations greater than Table 3 (coarse) SCS
- Exceeds Table 3 (Coarse) SCS

Parameter	Table 3 SCS	Units
Chloride	2,300,000	µg/L
Sodium	490,000	µg/L

Notes:

1. Table 3 (Coarse) SCS - Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, coarse grained soil, all property uses, Ministry of Environment Conservation and Parks, April 2011.
2. Geological interpretation for environmental purposes only: subsurface conditions depicted in this figure should no be relied upon for geotechnical purposes.
3. Geological units shown are simplified for environmental purposes and material composition can vary within a geological unit.
4. Boundaries between geological units are inferred based on available data and may change with further borings.

Scale: 1:600
Vertical exaggeration: 4x
0m 25m

Cross-Section B-B' - Sodium and Chloride in Groundwater

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Guelph | April 2025

Figure **18B**

guelph-01/data/GIS/TR19638 Westgate Carling Ottawa/illustrator/ F18B_TR19638_SectionB_B' Water Inorganic_20250422_20250423.ai

Primary Contaminant Source	Contaminant Release Mechanism	Exposure Point	Exposure Route	ON-SITE RECEPTORS: Workers - Sub-Surface	Workers - Long Term (Indoor)	Workers - Long Term (Outdoor)	Property Visitor
Soil		Soil	Direct Contact (Incidental Ingestion, Skin Contact)	●	○	●	●
	Dust Generation	Dust Blown	Particulate Inhalation	●	○	●	●
		Indoor Air	Inhalation	○	●	○	●
	Volatilization		Skin Contact	○	●	○	●
		Outdoor Air	Inhalation	●	○	●	●
			Skin Contact	●	○	●	●
		Outdoor Air at an Excavation	Trench Inhalation	●	○	○	○
			Skin Contact	●	○	○	○
	Leaching						
Groundwater		Groundwater	Incidental Ingestion & Skin Contact	●	○	○	○
		Indoor Air	Inhalation	○	●	○	●
	Volatilization		Skin Contact	○	●	○	●
		Outdoor Air	Inhalation	●	○	●	●
			Skin Contact	●	○	●	●
		Trench Air	Inhalation	●	○	○	○
			Skin Contact	●	○	○	○

Notes

○ Pathway is incomplete

● Pathway is complete

Human Health Conceptual Site Model Without RMMs
1309 Carling Avenue, Ottawa, Ontario

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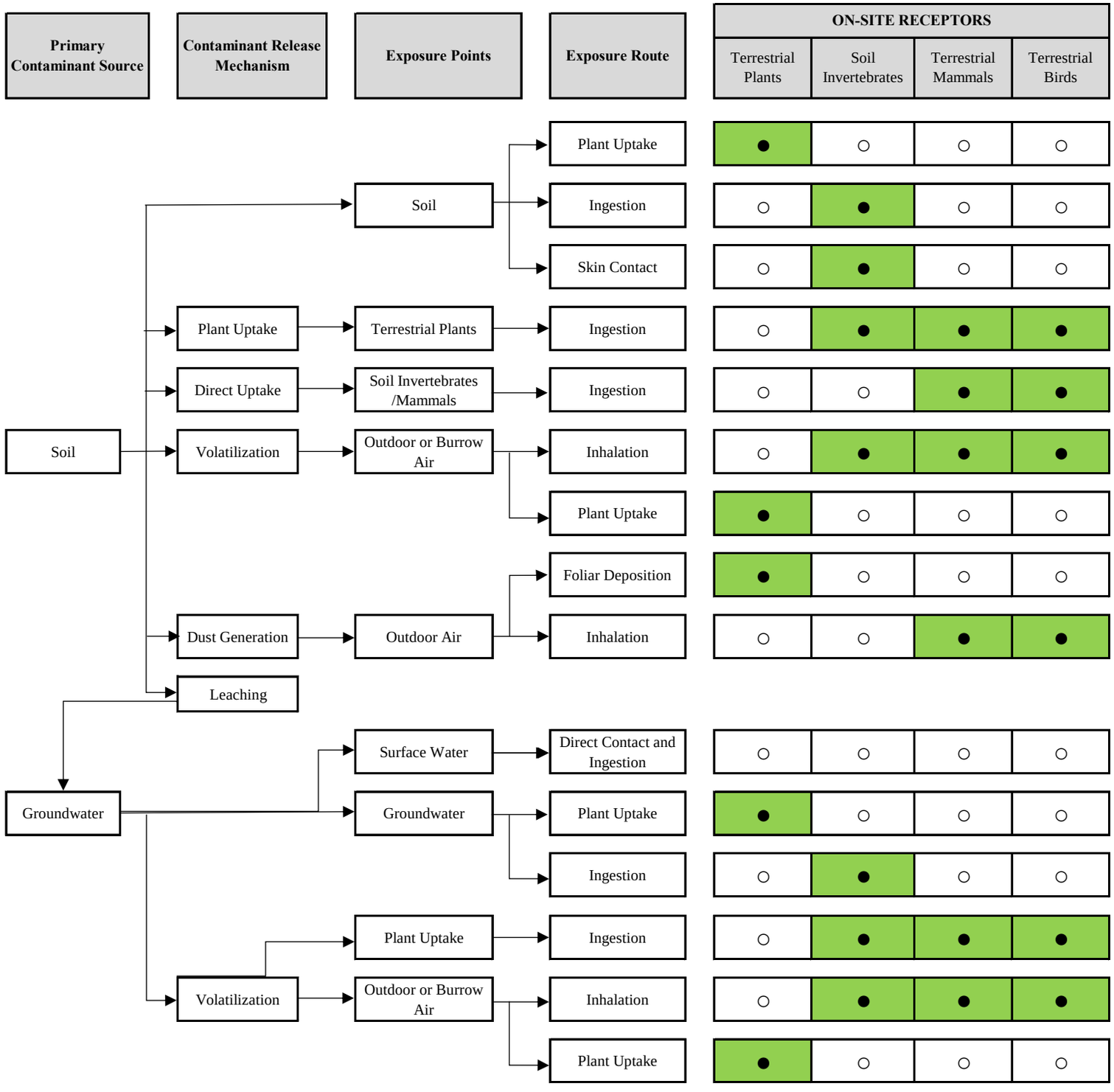
Ottawa | April 2025

Figure 19

https://geosyntec.sharepoint.com/teams/TR1363BAWestgate1309CarlingSharedDocuments/Project Files/07-Deliverables/02 - Phase Two ESA/Figures/[HHCSM_EcoCSM.xlsx]ReadMe



Notes

○ Pathway is incomplete or not applicable

● Pathway is complete

Ecological Conceptual Site Model Without RMMs

1309 Carling Avenue, Ottawa, Ontario

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Ottawa | April 2025

Figure 20

Appendix A
Phase Two Sampling and Analysis Plan

Geosyntec consultants

engineers | scientists | innovators

PHASE TWO SAMPLING AND ANALYSIS PLAN

1309 Carling Avenue, Ottawa, Ontario

Prepared for
RioCan Holdings Inc.
Yonge Eglinton Centre, 2300 Yonge St, Suite 2200
Box 2386 | Toronto, ON M4P 1E4

Prepared by
Geosyntec Consultants International, Inc.
1545 Carling Avenue, Suite 701
Ottawa, Ontario K1Z 8P9

Project Number: TR1363B

23 April 2025

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Table 1 Sampling and Analysis Plan

1. INTRODUCTION

Geosyntec Consultants International, Inc. (Geosyntec) has prepared this Sampling and Analysis Plan (SAP) outlining the environmental sampling and analysis procedures to be implemented on the property located at 1309 Carling Avenue in Ottawa, Ontario (hereinafter referred to as the "Phase Two Property" or the "Site"). It is our understanding that a Phase One Environmental Site Assessment (ESA) and this Phase Two ESA, prepared in accordance with Ontario Regulation (O. Reg.) 153/04, as amended, is required by the City of Ottawa to support Site redevelopment. As there is no proposed change to a more sensitive land use, in accordance with the Ontario *Environmental Protection Act* (EPA) and O. Reg. 153/04, a Record of Site Condition (RSC) is not required.

This SAP outlines the sampling locations to investigate areas of potential environmental concern (APECs) and associated contaminants of potential concern (COPCs) identified by Geosyntec in the 2025 Phase One ESA (Geosyntec, 2025) prepared for the Site. The procedures described herein were developed following the requirements of O. Reg. 153/04, as amended; relevant Ministry of the Environment, Conservation and Parks (MECP) guidance documents; and, Geosyntec's Standard Operating Procedures (SOPs).

1.1 Background

The Phase Two Property was developed in the late 1940s for use as an oil storage facility and redeveloped in 1955 into a multi-tenant commercial shopping mall (Westgate Shopping Centre) with additions and renovations in 1964, 1978, and 1991. At the time of reporting, the shopping centre was a one-storey building consisting of various occupied commercial and vacant units (some with mezzanines used for storage), most notably a Shopper's Drug Mart located at the southwest end of the building. Basements are present underneath the Shopper's Drug Mart and the east end of the building, the latter containing tenant spaces as well as utility and storage rooms.

A Proposed Borehole and Monitoring Well Location Plan, showing the Site boundaries, is presented on **Figure 1**.

Geosyntec prepared a Phase One ESA to support Site redevelopment. The results of the Phase One ESA identified potentially contaminating activities (PCAs) on the Site and on other properties located within the Phase One Study Area, which resulted in a total of eight APECs on the Phase Two Property.

The APECs and related PCAs and COPCs are summarized in the following table:

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #1 – Former Dry Cleaning Operations	Northern portion and adjacent to the north of existing Shoppers Drug Mart	#37 – Operation of Dry Cleaning Equipment (where chemicals are used)	On-Site	VOCs	Soil and Groundwater
APEC #2 – Former Hydrocarbon Storage	Northeastern corner of the existing mall	#28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, PAHs, VOCs	Soil and Groundwater
APEC #3 – Former Hydrocarbon Storage	Northwestern corner of the existing mall – boiler room	#28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, PAHs, VOCs	Soil and Groundwater
APEC #4 – Electrical Vault and Former Transformer	Western portion of existing mall	#18 – Electricity Generation, Transformation and Power Stations	On-Site	PHCs, PAHs, VOCs, PCBs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl-, CN-, low or high pH, EC, and SAR	Soil and Groundwater
APEC #5 – Electrical Vault and Former Transformer	Basement – Shoppers Drug Mart	#18 – Electricity Generation, Transformation and Power Stations	On-Site	PHCs, PAHs, VOCs, PCBs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl-, CN-, low or high pH, EC, and SAR	Soil and Groundwater

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #6 – Former Gasoline Storage (1335 Carling Avenue)	Western Site boundary	#28 – Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs, PAHs, VOCs	Groundwater
APEC #7 – Potential Presence of Fill Material	Entire Site	#30 – Importation of Fill Material of Unknown Quality	On-Site	PHCs, PAHs, VOCs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl-, CN-, low or high pH, EC, and SAR	Soil
APEC #8 – Electrical Vault and Former Transformer	Northeastern corner of the existing mall	#18 – Electricity Generation, Transformation and Power Stations	On-Site	PHCs, PAHs, VOCs, PCBs, Metals, (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl-, CN-, low or high pH, EC, and SAR	Soil and Groundwater

Notes:

APEC – Area of Potential Environmental Concern
PAHs – Polycyclic Aromatic Hydrocarbons
PCA – Potentially Contaminating Activity
PCBs – Polychlorinated Biphenyls
PHCs – Petroleum Hydrocarbons Fractions F1 to F4
VOCs – Volatile Organic Compounds
As, Sb, Se – Arsenic, Antimony, and Selenium
CN- - Cyanide
Cr (VI) – Hexavalent Chromium
B-HWS – Boron (Hot Water Soluble)
Hg – Mercury
Na – Sodium
Cl- – Chloride
EC – Electrical Conductivity
SAR – Sodium Adsorption Ratio

The locations of the APECs on the Phase Two Property are shown on **Figure 1**. The scope of work, or the field sampling plan, for the Phase Two ESA is described in **Table 1**.

1.2 Objective

The objectives of this SAP are to define the following:

- The appropriate sampling and analysis procedures to meet the data quality objectives (DQOs) of the Phase Two ESA (Sections 2.0 and 3.0).

- The Quality Assurance/Quality Control (QA/QC) procedures for data representativeness (Section 4.0).

2. STANDARD OPERATING PROCEDURES

The SOPs for soil and groundwater sampling activities for the Phase Two ESA are described in the following sections.

2.1 Preparation Activities

Prior to commencing subsurface investigation activities, Geosyntec will prepare a Task Hazard Analysis (THA) to assess potential health and safety hazards specific to the Phase Two ESA investigation activities. In addition, public utility services (i.e., Ontario One Call) and a private utility locator will be retained to identify the location of known public and private utilities in the vicinity of the proposed investigation locations at the Site.

2.2 Borehole Drilling

Boreholes will be advanced at the Site by an MECP-licensed drilling contractor under subcontract to Geosyntec. Borehole drilling may be performed using hollow or solid stem auger, or direct push technique (DPT) drilling methods, depending on the targeted depth of drilling and soil sampling requirements. Geosyntec personnel will observe the drilling program and will specify the drilling locations and depths. After each borehole is advanced to the specified depth, the total depth will be measured with a weighted measuring tape to verify the drilling depth and the total depth recorded in the field log. If fluids are used during borehole drilling, the amount and type of fluid lost to the formation will be recorded in the field logs.

2.3 Soil Sample Screening

During the drilling program, soil samples will be field screened using a combustible gas indicator (CGI) and/or a hand-held photoionization detector (PID) with a 10.6 eV lamp to assess the potential presence and magnitude of petroleum hydrocarbons (PHCs) and/or volatile organic compound (VOC) concentrations. The equipment will be calibrated before use and checked periodically throughout the day. Soil samples will be transferred into plastic zip-top bags or glass jars for field screening. Glass jars, if used, will be sealed with plastic wrap and aluminum foil secured by the ring top of the glass jars. Measurements will be obtained by inserting the probe of the CGI and/or PID into the bag or through the plastic wrap/aluminum foil layers of the jar to measure total organic vapours in the headspace. Soil samples will be stored for approximately ten minutes or longer following sample collection and then shaken prior to obtaining a screening measurement to enhance volatilization. The maximum measured PID and/or CGI readings will be recorded in the field logs.

2.4 Soil Sample Logging

Geosyntec will classify the soil samples using procedures similar to those described in the American Society for Testing and Materials visual-manual standard for the description and identification of soils (ASTM, 2000) or Canadian foundation Engineering Manual (CFEM 2023). A log will be prepared for each borehole and will include a unique identification number, date, description of geologic or other material encountered, including the type, texture, colour, moisture condition, and other observations of condition, such as staining, odours, weathering features, and CGI/PID screening measurement results. The borehole log will also contain observations noted during drilling, such as the locations where soil samples were recovered, notes on sample recovery, total depth drilled, drilling refusal, and visual or olfactory evidence of free-flowing product. The identification and location of soil samples submitted for laboratory analysis will be indicated.

2.5 Soil Sampling

Soil samples will be collected continuously, to the extent practical, using split-spoon samplers or acetate liners inside DPT rods. Equipment is to be decontaminated before initial use and between sampling locations. Upon collection of the soil samples, sub-samples of undisturbed soils will be expediently transferred into laboratory supplied containers for potential laboratory analysis.

2.6 Monitoring Well Installation

Geosyntec will retain a MECP-licensed well and drilling contractor to install a single, vertically oriented monitoring well in each borehole that is designated for well construction. Monitoring wells will be comprised of 50 millimetre (mm; exterior wells) or 31 mm (interior wells) Schedule 40 polyvinyl chloride (PVC) screen/riser pipe and will be constructed with 3 metres (m) of number 10 slot screen and screened to intersect the water table, which is expected to be located at depths ranging between 1.26 and 5.46 m below ground surface (bgs) based on groundwater depths measured during the 2015 Phase Two ESA conducted by others. Monitoring wells will be installed in accordance with O. Reg. 903. No solvents, lubricants, or adhesives will be used during well construction.

The annular space around and above the well screen will be backfilled with silica sand to form a sand pack. A bentonite seal, at least 0.3 m thick, will be placed above the sand pack and hydrated with distilled or potable water from ground surface. The remainder of the borehole will be filled with a cement grout/bentonite mixture or bentonite. Each layer will be installed by tremie pipe or through the drill string (hollow augers) to minimize the potential for bridging of materials within the borehole. After each layer is installed, a weighted measuring tape will be used to verify the installation depth of the layer. Monitoring wells will be completed with either aboveground or flushmount protective casings. A PVC slip cap will be inserted over the open end of the pipe of the wells, which will be completed aboveground.

A log will be prepared for each monitoring well that includes the borehole log information, in addition to the surveyed location and surface elevation of the well, monitoring well identification number, information pertaining to well construction (i.e., screened interval, sand pack, seal location and thickness, well diameter and screen slot size), and date of installation.

2.7 Monitoring Well Development

No sooner than approximately 24 hours following monitoring well installation, each monitoring well will be developed using a dedicated Waterra™ tubing in an attempt to remove fluids that may have been introduced into the well during drilling (i.e., drilling fluids), and to remove particulates that may have become entrained in the well and filter sand pack. A Horiba or equivalent water quality meter will be used to record water quality parameters during development, including dissolved oxygen (DO), temperature, pH, specific conductance, oxygen reduction potential (ORP), and turbidity. The water quality parameters will be measured by placing electrodes into a flow through chamber, or flow through cell, and pumping a continuous flow of groundwater across the electrodes, allowing the chamber to overflow into a larger container beneath. Turbulence in the chamber will be minimized to the extent possible. Development will continue until groundwater quality parameters have stabilized, turbidity has been sufficiently reduced, or at least five well casing volumes have been purged. For wells installed in low permeability materials (e.g., clays), wells may be developed by pumping the well dry on two or more occasions.

The depth to water before and after development will be measured and recorded. Visual and olfactory observations of the purged water will also be noted. The date of development, time that development started and stopped, and the estimated volume of fluid removed during development will be recorded in the field documentation.

2.8 Synoptic Water Level Measurements

Prior to groundwater sampling and approximately 24 hours following monitoring well development, static groundwater levels will be measured in the wells using an interface probe attached to a pre-calibrated measuring tape. The tape will contain graduations in metric units. Prior to use, the tape will be inspected for missing or defective graduation marks. When the probe is lowered into a well and contacts water, the probe will provide a visual and audible signal. Water levels will be recorded to the nearest 0.01 m in the field documentation. The probe and section of the tape in contact with water will be decontaminated before initial use and in between wells.

2.9 LNAPL and DNAPL Measurement

The top and bottom of the water columns in the monitoring wells will be assessed for the presence of light or dense non-aqueous phase liquid (LNAPL and DNAPL, respectively) layers using an interface probe. The probe will be calibrated by the manufacturer, with graduations in metric units. The probe will provide an intermittent visual and audible signal when water is contacted, and a

solid signal when NAPL is contacted. Prior to use, the tape will be inspected for missing or defective graduation marks. Presence, thickness of free product layers, and depth to free product layers will be recorded to the nearest 0.01 m in the field documentation. The probe and section of the tape in contact with water will be decontaminated before initial use and in between wells.

If NAPL is reportedly encountered using the interface probe, the results will be verified by visual inspection using a bailer.

2.10 Groundwater Sampling

Following static groundwater level measurements and prior to collecting groundwater samples, the water in the well casing will be purged to allow sampling of groundwater that is representative of subsurface conditions.

Groundwater samples will be collected from monitoring wells using low-flow sampling techniques. Purging will be conducted using peristaltic or submersible pumps connected to the dedicated tubing in the well. Purging of the groundwater will be performed at relatively low flow rates (between 0.1 and 0.5 litres per minute) to minimize drawdown of the water level in the well. Water purged from the wells will be monitored for water quality parameters to document changes in water quality. Water will continue to be purged from the wells until the drawdown of water level has stabilized and three consecutive water quality measurements over approximately three minutes has stabilized (pH ±0.1 pH units, specific conductance ±3%, turbidity ±10%, DO ±10% and ORP ±10%).

Groundwater samples will be transferred directly from the pump tubing into laboratory supplied sample containers. The date of purging, time that purging started and stopped, volume of fluid removed during purging, water levels before and after purging, samples collected, time samples collected, and analyses requested will be recorded in the field documentation.

2.11 Sample Containers, Labelling, Storage, Packaging, and Transportation

The volume and type of containers and the preservatives to be used for field and laboratory analyses, as provided by the laboratory, must comply with MECP protocols and laboratory specific requirements as described in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the *Environmental Protection Act* (Queen's Printer, July 1, 2011). Certified pre-cleaned containers will be provided by the laboratory.

Sample identifiers will consist of the sample location name, depth, and sample date (if applicable). Indelible ink pens will be used to label the sample containers. In addition to the sample identifier, samples will be labelled with the following information:

- Project name
- Name or initials of individual collecting the sample

- Date and time of sample collection
- Analyses to be performed
- Preservation chemical (if used)

Groundwater and soil samples will be placed in a sample cooler expediently following collection and stored on ice, then transported under a chain of custody to the laboratory in accordance with the sample handling and custody procedures.

Chain of custody documentation (including custody seals on coolers) will documented by Geosyntec personnel associated with field work at the end of each field day. Chain of custody forms will accompany the sample shipments. Once the samples arrive at the laboratory, Geosyntec will assess the laboratory sample receipt documentation to assess whether the samples have been logged correctly and that the appropriate analyses have been requested. Sample log in forms will be requested from each laboratory within approximately 24 hours of sample shipment.

2.12 Investigation Derived Waste (IDW)

Soil cuttings generated from the drilling program; purged groundwater from monitoring well development and groundwater sampling activities; and, wash water utilized for equipment decontamination will be stored on-Site in 205-L storage drums and transported to a designated storage area for characterization, as appropriate, and subsequent proper disposal in accordance with applicable regulations.

2.13 Surveying

Geosyntec will survey the horizontal position and reference elevation of the borings and monitoring wells to the nearest centimetre, relative to a geodetic benchmark and on-Site features. Using top of casing elevations measured for the monitoring wells, groundwater elevations will be calculated to assess the direction of groundwater flow.

3. LABORATORY ANALYTICAL METHODS

Geosyntec will retain a certified laboratory and request that analytical methods will follow standard MECP protocols, as applicable. Laboratory reports will include the analytical results of the samples and QA/QC analyses conducted, including laboratory QC sample analyses (e.g., method blanks, spikes, surrogates, laboratory control samples).

4. QUALITY ASSURANCE / QUALITY CONTROL

Field QA/QC samples consisting of trip blanks and field duplicate samples will be collected to monitor sampling and laboratory analytical performance.

4.1 Equipment Decontamination Procedure

Non-dedicated and non-disposable sampling equipment will be decontaminated before initial use and following each use to prevent the introduction of extraneous material into samples and to prevent cross contamination between sample locations. Sampling equipment will be decontaminated by washing with a non-phosphate detergent such as Liquinox™ or equivalent. Equipment decontamination will consist of the following:

1. Wash with non-phosphate detergent and water solution. This step will remove contamination from the equipment. The non-phosphate detergent will be diluted as directed by the manufacturer.
2. Rinse with distilled or potable water, as appropriate. This step will rinse away residual detergent solution.

4.2 Trip Blanks

Trip blanks for groundwater VOC/PHC F1 analyses are sample bottles containing analyte-free, deionized water, prepared at the contract laboratory, and stored and shipped with the field samples. The trip blanks will not be opened in the field. Information obtained from the trip blank analyses will be used to assess whether, and to what extent, sample handling and analysis has introduced positive bias to the sample results. One trip blank for analysis of VOC/PHC F1 will accompany each laboratory submission of groundwater VOC/PHC F1 samples.

4.3 Field Duplicates

Field duplicates are co-located samples (collected at the same time from the same location using the same sampling procedure) that will be analyzed to evaluate the precision of the sampling and analysis system. Field duplicate samples submitted for laboratory analyses will be submitted without indication of which investigative sample the duplicate represents (i.e., blind duplicate).

Field duplicates will be collected and analyzed for both soil and groundwater samples at a frequency of one field duplicate for every ten samples per parameter group.

4.4 Calibration Procedures

Field instruments will be calibrated prior to use according to the manufacturer's directions. Where possible, the field instruments will be calibrated using a two-point calibration technique, in accordance with the manufacturer's instructions. Calibration checks using commercially prepared standard solutions or gases will be conducted at least once per day and at the end of each sampling session. Instrument calibration information will be recorded in the field documentation. The pH meter will be re-calibrated if the calibration drifts by ± 0.5 pH units. The specific conductance, DO, ORP, and/or turbidity meters will be re-calibrated if the calibration drifts by greater than 20% of the standard concentration.

4.5 Data Quality Objectives

DQOs set the level of data uncertainty, such that decision making is not affected and the overall objectives of the Phase Two ESA, as stated in Section 2, are met for the collected field data. DQOs are established based on the need to monitor the primary data quality indicators (i.e., precision, bias, accuracy, representativeness, completeness, and comparability), which are described as follows:

- Precision is a measure of agreement among replicate measurements of the same property under prescribed similar conditions.
- Accuracy is the closeness of an individual measurement to the true value. This includes a combination of random error (precision) and systematic error (bias) components that result from sampling and analytical operations.
- Representativeness is the degree to which sample data accurately and precisely represent a characteristic of a population parameter at a sampling point.
- Completeness is a measure of the amount of the valid data obtained from the measurement system compared to the amount that should have been collected.

Analytical reporting limits (RLs) have been established by the laboratory to allow for a meaningful comparison of the concentration data to the applicable MECP Site Condition Standards (SCS). A description of the DQOs is provided below.

4.5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Analytical precision is the measurement of the variability associated with duplicate or replicate analyses. Total precision is the measurement of the variability associated with the entire sampling and analysis process, which is evaluated through analysis of duplicate field samples and measures

variability introduced by both the laboratory and field operations. Field duplicate samples will be used to assess field and analytical precision. The precision measurement expressed as the relative percent difference (RPD) is as follows:

$$RPD = \left(\frac{(Sample\ Result - Duplicate\ Result)}{(\frac{Sample\ Result + Duplicate\ Result}{2})} \right) * 100\%$$

The analytical laboratory will have statistically based acceptability limits for RPDs established for each method of analysis and sample matrix. The laboratory will review the QC samples to assess whether the internal QC data are within the limits of acceptability.

Suspect trends will be investigated by the analytical laboratory, and corrective actions taken. If the laboratory does not have statistically derived control limits, the analytical precision acceptability limits for this Phase Two ESA will be based on method limits.

Sampling precision will be evaluated based on the RPD for field duplicate samples. The field precision acceptability limits will be 30% for groundwater analyses performed by the certified laboratory. Soil samples may be evaluated against the 30% criteria, recognizing that soil is inherently more variable.

4.5.2 Accuracy

Accuracy is the nearness of a result or the mean of a set of results to the true or accepted value and measures the bias of an analytical system by comparing the difference of a measurement with a reference value. The percent recovery of an analyte, which has been added to the environmental samples, or to a blank sample, at a known concentration before extraction and analysis, provides a quantitative tool for evaluation of analytical accuracy. The laboratory is not to use the same spiking solutions used for accuracy assessments as for instrument calibrations. The following equation illustrates how accuracy is evaluated:

$$Accuracy\ as\ Percent\ Recovery = \left(\frac{Spiked\ Sample\ Result - Sample\ Result}{Spike\ True\ Value} \right) * 100\%$$

Percent recoveries for surrogates and laboratory control samples serve as a measure of analytical accuracy. The laboratory will review the QC samples and surrogate recoveries (organic analyses) for each analysis to assess whether the internal QC data are within the limits of acceptability. The laboratory will investigate any suspect trends and take appropriate corrective actions.

4.5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Unlike precision and accuracy, which can be expressed in quantitative terms, representativeness is a qualitative parameter that is most concerned with the proper design of the sampling program. Standardized sampling procedures are presented to support this objective.

4.5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one dataset can be compared with another, whether it was generated by a single laboratory or during inter-laboratory studies. Sample data should be comparable for similar samples and sample conditions. The objective for the QA/QC program is to produce data with the greatest possible degree of comparability. The number of matrices sampled, and the range of field conditions encountered are considered in assessing comparability. The use of standardized field and analytical procedures contribute to the comparability of analytical data.

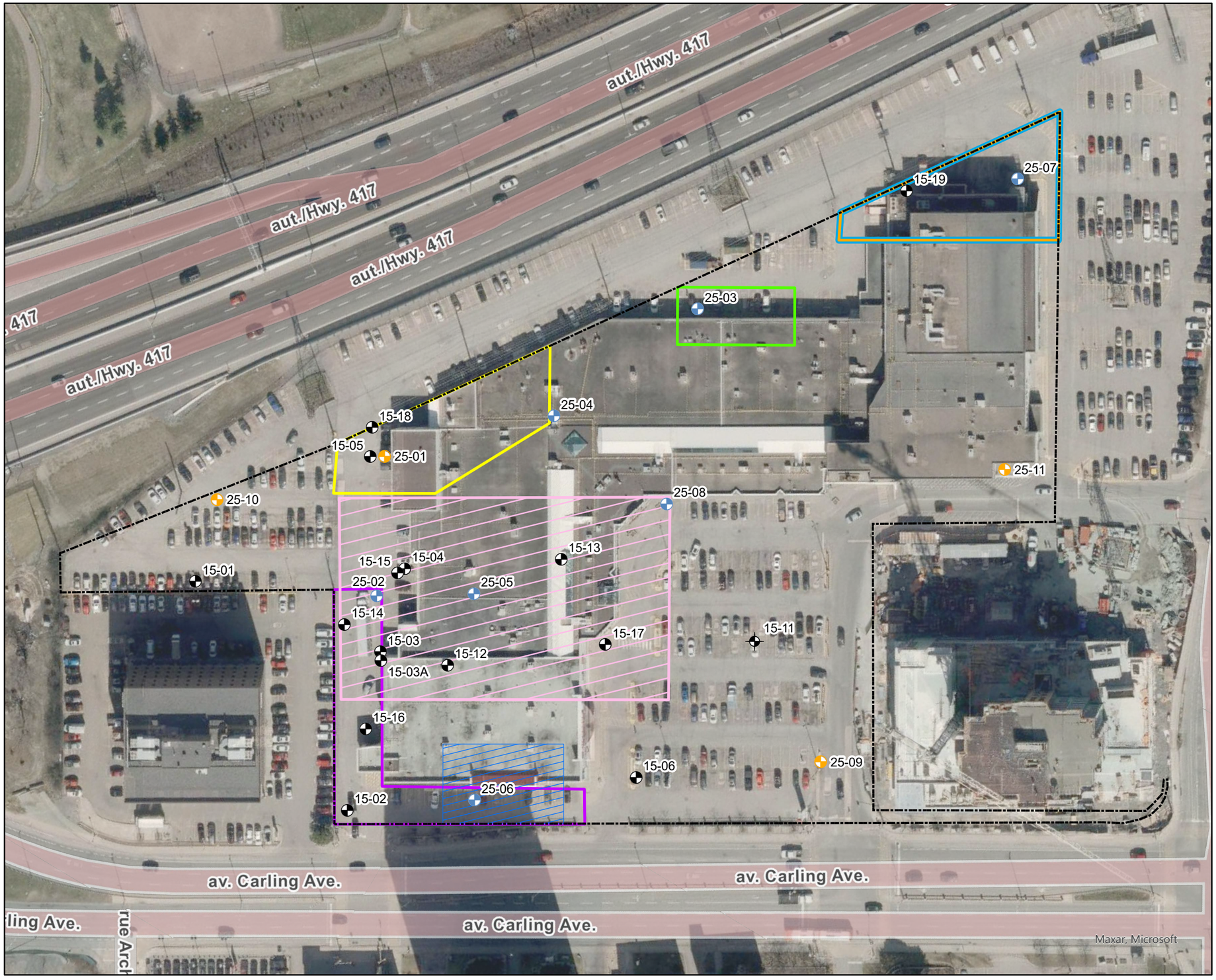
4.5.5 Completeness

Completeness is a measure of whether the collected data meet the project objectives. The data must meet the acceptance criteria, including accuracy and precision, to be considered complete, and any other criteria specified for an analytical method. The data will be reviewed or validated to keep invalid data from being processed through data collection. The following equation illustrates how completeness is evaluated:

$$Completeness = \left(\frac{Acceptable\ Results}{Total\ Results}\right) * 100\%$$

The goal for completeness is 100%. If this goal is not achieved, the sources of non-conformance will be evaluated to assess whether resampling and reanalysis is necessary to meet the objectives of the Phase Two ESA.

FIGURES



Legend:

- Proposed Borehole
- Proposed Borehole/Monitoring Well
- Previous Monitoring Well (Golder, 2015)
- Previous Borehole (Golder, 2015)
- Phase One Property Boundary

APEC

- APEC #1 - Former Dry Cleaning Operations
- APEC #2 - Former Hydrocarbon Storage
- APEC #3 - Former Hydrocarbon Storage
- APEC #4 - Electrical Vault / Transformer
- APEC #5 - Electrical Vault / Transformer
- APEC #6 - Former Hydrocarbon Storage (off-site)
- APEC #7 - FIll Material (site wide)
- APEC #8 - Electrical Transformer

Notes:
1) Map Projection: NAD 1983 CSRS UTM Zone 18N
2) Imagery Credits: Streets and Basemap - City of Ottawa, 2021

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FIGURE 1
SAMPLING LOCATION PLAN WITH AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APECs)

1309 CARLING AVENUE
OTTAWA, ONTARIO

OFFICE LOCATION: WATERLOO		REVISION: 00	Geosyntec consultants
DATE PLOTTED: 23-Apr-2025	DATE REVISED: 23-Apr-2025	REVIEWED: SA	
APPROX. SCALE: 1:1,100	PAGE SIZE: 11 x 17 in	CHECKED: KK	TRUE NORTH
		DRAWN: JK	0 10 20 30 Meters

P:\GIS\TR1383B Westgate Carling Ottawa\ArcPro\Westgate_Carling\Westgate_Carling.aprx

TABLES

Table 1
Sampling and Analysis Plan
1309 Carling Avenue, Ottawa, Ontario

Proposed Investigation Location	Media	Parameter Suite															Sampling System	Target Lithological Unit	Soil Sampling Depths (m bgs)	Maximum Borehole Depth (m bgs)	Monitoring Well Screened Interval (m bgs)	Rationale/Comments
		VOCs	PHCs F1-F4	PAHs	PCBs	Metals	As, Sb, Se	Cr (VI)	Hg	Methyl Mercury	Na	B-HWS	CN-	pH	EC and SAR	Cl-	TCLP						
Sampling and Analysis Plan																						
Proposed Borehole Locations																						
BH25-01	**Soil**	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	16.0		
	Soil	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH/MW25-02	**Soil**	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	14.5		
	Soil	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH/MW25-03	**Soil**	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	10.0		
	Soil	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH/MW25-04	**Soil**	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	5.0		
	Soil	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH/MW25-05	**Soil**	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	5.0		
	Soil	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH/MW25-06	**Soil**	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	10.0		Soil samples should represent 'worse-case' conditions observed over the prescribed intervals.
	Soil	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH/MW25-07	**Soil**	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	10.0		
	Soil	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH/MW25-08	**Soil**	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	16.0		
	Soil	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH25-09	**Soil**	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	10.0		
	Soil	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH25-10	**Soil**	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	10.0		
	Soil	•	•	•		•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
BH25-11	**Soil**	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Fill[a]	0.0 to 2.2	10.0		
	Soil	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Judgemental	Native OB[b]	2.2 to 8.0			
	Sub-Total	22	22	22	10	22	22	22	22	22	22	22	22	22	22								
	Field Duplicates	3	3	3	1	3	3	3	3	3	3	3	3	3	3								
	Total	25	25	25	11	25	25	25	25	25	25	25	25	25	25								

Table 1
Sampling and Analysis Plan
1309 Carling Avenue, Ottawa, Ontario

Proposed Monitoring Well Locations																					
BH/MW25-02	**Groundwater**	•	•	•	•	•	•	•	•	•		•	•	•		•		Judgemental	UGBZ		1.76 to 6.96	3.05 m from bottom	Well install so that screen intercepts water table (expected between 1.26 and 5.46 m bgs)
BH/MW25-03	**Groundwater**	•	•	•		•	•	•	•	•		•	•	•		•		Judgemental	UGBZ		1.76 to 6.96	3.05 m from bottom	Well install so that screen intercepts water table (expected between 1.26 and 5.46 m bgs)
BH/MW25-04	**Groundwater**	•	•	•		•	•	•	•	•		•	•	•		•		Judgemental	UGBZ		1.76 to 6.96	3.05 m from bottom	Well install so that screen intercepts water table (expected between 1.26 and 5.46 m bgs)
BH/MW25-05	**Groundwater**	•	•	•	•	•	•	•	•	•		•	•	•		•		Judgemental	UGBZ		1.76 to 6.96	3.05 m from bottom	Well install so that screen intercepts water table (expected between 1.26 and 5.46 m bgs)
BH/MW25-06	**Groundwater**	•	•	•	•	•	•	•	•	•		•	•	•		•		Judgemental	UGBZ		1.76 to 6.96	3.05 m from bottom	Well install so that screen intercepts water table (expected between 1.26 and 5.46 m bgs)
BH/MW25-07	**Groundwater**	•	•	•	•	•	•	•	•	•		•	•	•		•		Judgemental	UGBZ		1.76 to 6.96	3.05 m from bottom	Well install so that screen intercepts water table (expected between 1.26 and 5.46 m bgs)
BH/MW25-08	**Groundwater**	•	•	•		•	•	•	•	•		•	•	•		•		Judgemental	UGBZ		1.76 to 6.96	3.05 m from bottom	Well install so that screen intercepts water table (expected between 1.26 and 5.46 m bgs)
MW15-01	**Groundwater**	•	•	•		•	•	•	•	•		•	•	•		•							Existing monitoring well
MW15-05 or MW15-18	**Groundwater**	•	•	•		•	•	•	•	•		•	•	•		•							Existing monitoring well
MW15-15	**Groundwater**	•	•	•		•	•	•	•	•		•	•	•		•							Existing monitoring well
MW15-03	**Groundwater**	•	•	•	•	•	•	•	•	•		•	•	•		•							Existing monitoring well
MW15-16	**Groundwater**	•	•	•	•	•	•	•	•	•		•	•	•		•							Existing monitoring well
MW15-06	**Groundwater**	•	•	•		•	•	•	•	•		•	•	•		•							Existing monitoring well
MW15-17	**Groundwater**	•	•	•	•	•	•	•	•	•		•	•	•		•							Existing monitoring well
MW15-19	**Groundwater**	•	•	•	•	•	•	•	•	•		•	•	•		•							Existing monitoring well
	Sub-Total	15	15	15	8	15	15	15	15	15		15	15	15	15	15							
	Field Duplicates	2	2	2	1	2	2	2	2	2		2	2	2	2	2							
	Trip Blank	1																					
	Total	18	17	17	9	17	17	17	17	17		17	17	17	17	17							
Proposed Leachate Sample Locations																							
Composite Sample	**Soil**																•	Composite					
	Sub-Total																1						
	Field Duplicates																1						
	Total																2						

Notes:

a If fill material observed, expected to be between surface to 2.2 m bgs
b Bedrock expected to start at depths between 8 to 10 m bgs
* Dependent on Depth of Water Table. Screen shall be installed to straddle the water table
m bgs – Metres Below Ground Surface
NA – Not Applicable
OB – Overburden
UGBZ – Upper Groundwater Bearing Zone
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
PHCs F1 to F4 - Petroleum Hydrocarbons Fractions F1 to F4
PAHs - Polycyclic Aromatic Hydrocarbons
As, Sb, Se – Arsenic, Antimony and Selenium
Cr (VI) – Hexavalent Chromium
Hg – Mercury
VOCs - Volatile Organic Compounds
B-HWS – Boron (Hot Water Soluble)
CN- - Cyanide
EC – Electrical Conductivity
SAR – Sodium Adsorption Ratio
Na - Sodium
Cl- - Chloride
TCLP - Toxicity Characteristic Leaching Procedure (VOCs, metals [including As, Sb, Se], CN-, PAHs, polychlorinated biphenyls [PCBs], and Ignitability)

Appendix B
Borehole Logs

Geosyntec consultants

Borehole No: 25-01

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364627.74	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027683.11	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.838(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 14.63 m	**Date**	: 23/03/2025	**Loc Comment**	:

Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water
0.1				ASPHALT	Fill					
			GP	FILL, granular fill, some sand, black to grey, compact, wet		SS1	50%	3.8	SPT 12, 8, 8, 4/90mm (N = 16)	
0.64	73		SM	FILL, silty sand, some gravel and some clay, black to grey, loose, wet		SS2	40%	4.2	SPT 5, 3, 3, 4 (N = 6)	
1.22		Split Spoon	Cl	SILTY CLAY, with some sand and gravel, brown to grey, firm, wet	Glaciomarine Clay	SS3	100%	5.8	SPT 1, 2, 3, 3 (N = 5)	
1.82	72		Cl	soft		SS4	100%	3.3	SPT 3, 2, 1, 1 (N = 3)	
2.43			GP	SANDY GRAVEL, with trace silt, black to brown, very loose, wet		SS5	100%	6.7	SPT 1, 2, 1, 2 (N = 3)	
3.2	71		Cl	SILTY CLAY, grey, stiff, wet		SS6	100%	0.6	SPT 0, 0, 0, 0	
	70					SS7	100%	1.8	SPT 0, 0, 0, 0	
	69									
	68									
6.1		Hollow Stem Auger	SM	GRAVELLY SILTY SAND, with clay, grey, very loose, wet	Glacial Till	SS8	5%	6.2	SPT 1, 1, 2, 3 (N = 3)	
6.86	67			trace clay, loose		SS9	60%	2.0	SPT 2, 2, 3, 2 (N = 5)	
	66		SM			SS10	80%	3.7	SPT 2, 3, 4, 3 (N = 7)	
8.84	65			boulder, grey, wet						
	64		SM							

Well Diagram	Remarks / Observations

This report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for environmental purposes only, without attempt to consider geotechnical properties or the geotechnical significance of the materials encountered. As such it should not be relied upon for geotechnical purposes.

Geosyntec consultants

Borehole No: 25-01

MTM	**: 9**	**Driller Rig**	**: CME 75 HT**	**Job Number**	**: TR1363B**
Easting	**: 364627.74**	**Driller Supplier**	**: OGS**	**Client**	**: RioCan**
Northing	**: 5027683.11**	**Logged By**	**: EN, TK**	**Project**	**: RioCan Westage - 1309 Carling Ave**
RL	**: 73.838(m)**	**Reviewed By**	**: BV**	**Location**	**: 1309 Carling Avenue, Ottawa, ON, Canada**
Total Depth	**: 14.63 m**	**Date**	**: 23/03/2025**	**Loc Comment**	**:**

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
34						boulder, grey, wet								
35		63		SM										
36	11		Hollow Stem Auger											
37	11.28					less sand and fines		SS11	20%	2.4	SPT 5, 3, 6, 10 (N = 9)			
38														
39		62		SM										
40	12													
	12.37									1.9				
						Commenced Coring at 12.37m								

This report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for environmental purposes only, without attempt to consider geotechnical properties or the geotechnical significance of the materials encountered. As such it should not be relied upon for geotechnical purposes.

Geosyntec consultants

Borehole No: 25-01

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364627.74	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027683.11	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.838(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 14.63 m	**Date**	: 23/03/2025	**Loc Comment**	:

Depth (ft)	Depth (m)	Elevation (m masl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	RQD% and TCR%	RQD	Water	Well Diagram	Remarks / Observations
34													
35													
36	11	63											
37													
38													
39		62											
40	12					**Commenced Coring at 12.37m**							
41						LIMESTONE: grey limestone with black shale bedding, highly weathered and fractured, fine grained, thinly to medium bedded, very poor quality	Bedrock		RQD = 0%				
42	13	61		LIMST									
43	13.2					excellent quality, very strong							
44			NMLC Coring										
45		60		LIMST					RQD = 95%				
46	14												
47						**25-01 Terminated at 14.63m (upon reaching target depth. Backfilled with bentonite.)**							

RQD scale: 0, 20, 40, 60, 80, 100

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Geosyntec consultants

Borehole No: 25-02

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364645.68	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027656.31	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.791(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 13.33 m	**Date**	: 17/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing (GCVD28)

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
	0.13					ASPHALT	Fill						0-0.305, Grout	
1	0.46			GP		FILL, granular fill, grey		SS1	30%	0.4	SPT 10, 7, 9, 11 (N = 16)			
2	0.762	73		CI		SILTY CLAY, trace gravel, trace sand, brown, stiff, moist	Glaciomarine clay							
3	1			CI		frozen and brittle		SS2	50%	0.2	SPT 8, 10, 6, 5 (N = 16)			
4	1.37												0.305-2.44, Bentonite - Granular	
5			Split Spoon	CI		brown to grey, firm		SS3	100%	1.1	SPT 5, 4, 3, 3 (N = 7)		0-2.74, 38mm PVC Solid	
6		72												
7	1.98 2			CI		wet		SS4	65%	2.1	SPT 3, 2, 2, 1 (N = 4)			
8	2.59													
9		71		CI		grey, very soft		SS5	50%	1.2	SPT 1, 1, 1, 1 (N = 2)			
10	3													
11	3.2			CI		stiff		SS6	100%	1.3	SPT 0, 0, 0, 0			Water Level - April 11, 2025
12		70												
13	4												2.44-5.79, Drainage - Course Sand	
14														
15												3.60 m Water Level	2.74-5.79, 38mm PVC Slotted	
16		69						SS7	100%	2.5	SPT 0, 0, 0, 0			
17	5													
18														
19		68												
20	6							SS8	100%	0.6	SPT 0, 0, 0, 0			
21														
22	6.56		Hollow Stem Auger			with some gravel and some sand, brown to grey, stiff		SS9	45%	0.4	SPT 1, 4, 7, 4 (N = 11)			
23	7	67		CI										
24	7.31					firm								
25								SS10	50%	0.2	SPT 2, 1, 4, 3 (N = 5)			
26		66											5.79-11.28, Bentonite - Granular	
27	8							SS11	40%	0.4	SPT 0, 2, 5, 9 (N = 7)			
28														
29	8.84	65				SILTY GRAVEL and SAND, grey, dense, wet	Glacial Till							
30	9			GM				SS12	25%	0.5	SPT 8, 14, 17, 15 (N = 31)			
31	9.6					black to grey								
32		64		GM				SS13	50%	1.3	SPT 34, 19, 21, 17			

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Geosyntec consultants

Borehole No: 25-02

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364645.68	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027656.31	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.791(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 13.33 m	**Date**	: 17/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing (GCVD28)

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
34 35 36	11 11.28	63	Hollow Stem Auger	GM		black to grey	Glacial Till	SS13	50%	1.3	SPT 34, 19, 21, 17 (N = 40)		5.79-11.28, Bentonite - Granular	
						Commenced Coring at 11.28m								

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Geosyntec consultants

Borehole No: 25-02

MTM	**: 9**	**Driller Rig**	**: CME 75 HT**	**Job Number**	**: TR1363B**
Easting	**: 364645.68**	**Driller Supplier**	**: OGS**	**Client**	**: RioCan**
Northing	**: 5027656.31**	**Logged By**	**: EN, TK**	**Project**	**: RioCan Westage - 1309 Carling Ave**
RL	**: 73.791(m)**	**Reviewed By**	**: BV**	**Location**	**: 1309 Carling Avenue, Ottawa, ON, Canada**
Total Depth	**: 13.33 m**	**Date**	**: 17/03/2025**	**Loc Comment**	**: Elevation is Top of PVC Casing (GCVD28)**

Depth (ft)	Depth (m)	Elevation (m masl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	RQD% and TCR%	RQD	Water	Well Diagram	Remarks / Observations
34													
35		63											
36	11					**Commenced Coring at 11.28m**							
37													
38				LIMST		LIMESTONE: grey limestone with black shale interbeds, fresh, fine grained, thinly to medium bedded, good quality, very strong	Bedrock		RQD = 82%				
39	11.81	62											
40	12		NMLC Coring	LIMST		fractured zone, very poor quality						Bentonite - Granular	
41	12.5					excellent quality			RQD = 52%				
42		61		LIMST									
43	13												
						25-02 Terminated at 13.33m (upon reaching target depth. Monitoring well installed, details shown on the graph.)							

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Geosyntec consultants

Borehole No: 25-03

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364692.82	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027788.83	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.793(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 7.47 m	**Date**	: 26/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing (GCVD28)

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
1	0.15	73	Hollow Stem Auger	GP		ASPHALT FILL, granular fill	Fill	SS1		2.1			0-0.305, Grout	
2	0.762			ML		SANDY SILT, grey brown, compact, moist		SS2	100%	0.4	SPT 2, 6, 4, 5 (N = 10)		0.305-1.829, Bentonite - Granular	
5	1.524	72		CI		SILTY CLAY, grey to brown, firm, moist	Glaciomarine clay	SS3	40%	0.4	SPT 3, 2, 2, 2 (N = 4)		0-2.134, 50mm PVC Solid	Water level April 11th 2025.
8	2.438							SS4	100%	0.3	SPT 1, 1, 0, 1 (N = 1)	1.59 m Water Level		
12	3.81	70				some organics, grey, very soft, wet		SS5	100%	0.1	SPT 0, 0, 0, 0		1.829-5.182, Drainage - Course Sand 2.134-5.182, 50mm PVC Slotted	
18	5.486	68		CI				SS6	100%	0.4	SPT 0, 0, 0, 0			
21	6.858	67						SS7	100%	0.3	SPT 0, 0, 0, 0		5.182-7.468, Bentonite - Granular	
23	7			ML		SANDY SILT, till with some gravel, grey, compact, wet	Glacial Till	SS8	75%	6.1	SPT 2, 10, 9, 8 (N = 19)			
						25-03 Terminated at 7.47m (upon reaching target depth. Monitoring well installed.)								

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Geosyntec consultants

Borehole No: 25-04

MTM	: 9	**Driller Rig**	: Hilti DD250	**Job Number**	: TR1363B
Easting	: 364665.65	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027721.99	**Logged By**	: TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 74.015(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 4.88 m	**Date**	: 24/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing (GCVD28)

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
0	0.15	74	Split Spoon	ARG		CONCRETE: grey	Fill						0-0.3, Grout	Water level April 11th 2025.
1	0.299			SM		FILL, granular fill, sand with gravel, black to brown, wet		SS1		1.3			0-0.61, 31mm PVC Solid	
2				SM		brown, loose		SS2	5%	6.8	SPT 8, 4, 3, 7 (N = 2)		0.3-0.61, Bentonite - Granular	
3	0.91													
4	1	73		ML		SANDY SILT, with gravel, brown to grey, loose, moist		SS3	33%	7.4	SPT 2, 2, 5, 5 (N = 7)			
5	1.52					SILT and CLAY, firm, wet	Glaciomarine clay							
6								SS4	100%	4	SPT 4, 5, 9, 8 (N = 5)	0.77 m Water Level		
7	2	72		ML				SS5	100%	2.3	SPT 6, 7, 5, 8 (N = 4)		0.61-3.66, Drainage - Course Sand	
8													0.61-3.66, 31mm PVC Slotted	
9														
10	3.05	71				SILTY CLAY, trace gravel, grey, firm, wet		SS6	100%	4.2	SPT 7, 8, 6, 9 (N = 5)			
11														
12														
13	4	70		CI										
14													3.66-4.88, Formation collapse	
15								SS7	100%	3.6	SPT 5, 5, 4, 5 (N = 3)			
16						**25-04 Terminated at 4.88m (upon reaching target depth. Monitoring well installed.)**									

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Geosyntec consultants

Borehole No: 25-05

MTM	: 9	**Driller Rig**	: Hilti DD250	**Job Number**	: TR1363B
Easting	: 364679.23	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027679.71	**Logged By**	: TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 74.01(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 5.64 m	**Date**	: 25/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing (GCVD28)

Depth (m)	Elevation (m amsl)	Material Description	Stratigraphy	Classification Code	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
0.27	74	TILE and CONCRETE	Fill	ARG						0-0.457, Grout	
0.46		FILL, granular fill, silty sand with gravel, brown, dense, moist		SM	SS1		1.3				
1.07	73	SILT, brown, compact, moist		ML	SS2	66%	3.1	SPT 7, 12, 14, 32 (N = 9)			
		CLAYEY SILT		ML	SS3	90%	3.9	SPT 21, 25, 38, 34 (N = 21)			Water level April 11th 2025.
1.83											
2	72	SILT and CLAY, brown, firm, wet	Glaciomarine clay	ML	SS4	100%	1.0	SPT 8, 11, 13, 15 (N = 8)	1.03 m Water Level	0-3.96, 31mm PVC Solid	
					SS5	80%	1.0	SPT 5, 8, 9, 12 (N = 6)		0.46-3.65, Bentonite - Granular	
3	71	Split Spoon									
3.2		SILTY CLAY, brown to grey, soft, wet.			SS6	100%	0.7	SPT 3, 2, 5, 7 (N = 2)			
4	70			CI							
4.88		trace sand, grey								3.65-5.56, Drainage - Course Sand	
5	69			CI	SS7	100%	1.2	SPT 5, 4, 3, 5 (N = 2)		3.96-5.49, 31mm PVC Slotted	
5.49		trace sand and trace gravel, firm		CI	SS8	100%	1.0	SPT 12 (N = 8)		5.56-5.64, Bentonite - Granular	
		25-05 refusal at 5.64m (Monitoring well installed.)									

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Geosyntec consultants

Borehole No: 25-06

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364708.68	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027628.16	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.599(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 5.79 m	**Date**	: 20/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing (GCVD28)

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0.18 0.76 1 1.524 2 2.286 3 4 5	73 72 71 70 69 68	Hollow Stem Auger	GP CI CI CI		ASPHALT FILL, granular fill, brown SILTY CLAY, some gravel and some sand, grey, firm, moist trace gravel and trace sand, soft, wet very soft	Fill Glaciomarine clay	SS1 SS2 SS3 SS4 SS5 SS6 SS7	50% 50% 100% 90% 100% 60%	4.9 2.1 1.8 1.7 1.9 0.7 3.1	SPT 4, 3, 5, 5 (N = 8) SPT 2, 1, 2, 2 (N = 3) SPT 1, 1, 1, 1 (N = 2) SPT 1, 0, 0, 0 SPT 0, 0, 0, 0 SPT 1, 2, 6 (N = R)	2.73 m Water Level	0-0.15, Grout 0.15-2.26, Bentonite - Granular 0-2.71, 50mm PVC Solid 2.26-2.26, Drainage - Course Sand 2.26-5.76, Drainage - Course Sand 2.71-5.76, 50mm PVC Slotted	Water level April 11th 2025.
						25-06 refusal at 5.79m (Monitoring well installed.)								

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Geosyntec consultants

Borehole No: 25-07

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364739.93	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027849.22	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 74.246(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 7.47 m	**Date**	: 14/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing (GCVD28)

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
1	0.15	74	Hollow Stem Auger	GP		ASPHALT	Fill						0-0.15, Grout	
						FILL, granular fill		SS1 (grab)		0.1				
2	0.76												0.15-1.52, Bentonite - Granular	
3	1			GP					25%	0.1	SPT 30, 26, 11, 6 (N = 37)		0-1.83, 50mm PVC Solid	
4		73												
5	1.524					SANDY SILT, brown, compact, moist								
6	2			ML				SS2	50%	0.3	SPT 5, 5, 8, 9 (N = 13)			
7														
8	2.286	72				some clay								
				ML				SS3	90%	0.4	SPT 2, 3, 4, 2 (N = 7)			Water level April 11th 2025.
9														
10	3.048					SILTY CLAY, brown to grey, firm, moist	Glaciomarine clay							
11		71		Cl				SS4	100%	0.1	SPT 2, 3, 2, 2 (N = 5)	2.30 m Water Level	1.52-4.88, Drainage - Course Sand	
12	3.81					soft, wet							1.829-4.877, 50mm PVC Slotted	
13	4							SS5	100%	0.2	SPT 1, 2, 1, 1 (N = 3)			
14		70												
15														
16														
17	5	69		Cl									4.88-5.18, Bentonite - Granular	
18								SS6	100%	0.3	SPT 1, 0, 1, 0 (N = 1)			
19														
20	6	68											5.18-6.86, Formation - collapse	
21														
22	6.86					SANDY CLAY, till, very stiff, moist								
23	7			Cl				SS7	60%	0.2	SPT 3, 8, 14, 15 (N = 22)			
24		67												
						25-07 Terminated at 7.47m (upon reaching the target depth. Monitoring well installed.)								

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Geosyntec consultants

Borehole No: 25-08

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364703.62	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027715.34	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.884(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 20.57 m	**Date**	: 11/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
0	0.0914					ASPHALT	Fill						0-0.15, Grout	
1				GP		FILL, granular fill, grey								Water level April 11th 2025.
2	0.762													
3	1	73		CI		SILTY CLAY, grayish brown, firm, moist	Glaciomarine clay	SS1	85%	0.3	SPT 4, 1, 2, 4 (N = 3)			
4												0.31 m Water Level		
5	1.524					gray, stiff							0.15-2.74, Bentonite - Granular	
6	2	72						SS2	100%	0.3	SPT 1, 1, 1, 1 (N = 2)		0-3.05, 50mm PVC Solid	
7														
8								SS3	100%	0.4	SPT 0, 0, 0, 0			
9														
10	3	71						SS4	100%		SPT 0, 0, 0, 0			
11				CI										
12														
13	4	70												
14														
15													2.74-6.1, Drainage - Course Sand	
16	5	69	Hollow Stem Auger					SS5	100%	0.3	SPT 0, 0, 0, 0		3.05-6.10, 50mm PVC Slotted	
17														
18	5.334					some to trace organic								
19				CI				SS6	100%	0.4	SPT 0, 0, 0, 5			
20	6 6.096	68				with some gravel								
21				CI				SS7	100%	0.6	SPT 2, 8, 4, 12 (N = 12)			
22														
23	6.858 7	67		SM		GRAVELLY SILTY SAND, with clay, grey, compact, moist		SS8	40%	0.9	SPT 7, 7, 7, 7 (N = 14)		6.1-7.62, Bentonite - Granular	
24														
25	7.62					trace clay	Glacial Till							
26	8	66		SM				SS9	37%	0.3	SPT 7, 7, 8, 9 (N = 15)			
27														
28	8.382					loose		SS10	50%	0.8	SPT 5, 2, 3, 3 (N = 5)			
29	9	65											7.62-17.83, Formation - collapse	
30				SM										
31								SS11	25%	0.5	SPT 1, 2, 3, 4 (N = 5)			
32		64												

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Geosyntec consultants

Borehole No: 25-08

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364703.62	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027715.34	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.884(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 20.57 m	**Date**	: 11/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
34				SM		loose	Glacial Till							
35	10.668													
36	11	63		SM		compact, wet		SS12	60%	0.1	SPT 4, 9, 12 (N = R)			
37	11.2776					boulder								
38														
39		62												
40	12													
41				SM										
42														
43		61												
44	13													
45	13.72													
46		60	Hollow Stem Auger			GRAVELLY SAND, with some silt and trace clay, grey, dense, wet		SS13	40%	0.5	SPT 18, 16, 22, 8 (N = 38)		7.62-17.83, Formation - collapse	
47	14													
48				SM										
49		59												
50	15													
51	15.54					more gravel and less sand		SS14	25%	0.6	SPT 8, 11, 19, 17 (N = 30)			
52		58												
53	16													
54				SM										
55														
56		57												
57	17							SS15	50%	0.4	SPT 15, 19, 33 (N = R)			
58	17.83													
						Commenced Coring at 17.83m								

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Geosyntec consultants

Borehole No: 25-08

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364703.62	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027715.34	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 73.884(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 20.57 m	**Date**	: 11/03/2025	**Loc Comment**	: Elevation is Top of PVC Casing

Depth (ft)	Depth (m)	Elevation (m masl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	RQD% and TCR%	RQD	Water	Well Diagram	Remarks / Observations
34										0 20 40 60 80 100			
35													
36	11	63											
37													
38													
39	12	62											
40													
41													
42	13	61											
43													
44													
45													
46	14	60											
47													
48													
49													
50	15	59											
51													
52													
53	16	58											
54													
55													
56	17	57											
57													
58						**Commenced Coring at 17.83m**								
59	18	56				LIMESTONE: grey limestone with shale interbeds, highly weathered and fractured, fine grain, thinly to medium bedded, very poor quality			RQD = 0%			Formation - collapse	
60													
61				LIMST									
62	19	55	NMLC Coring										
63	19.35					good quality, very strong							
64				LIMST					RQD = 80%				
65		54											

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Geosyntec consultants

Borehole No: 25-08

MTM	**: 9**	**Driller Rig**	**: CME 75 HT**	**Job Number**	**: TR1363B**
Easting	**: 364703.62**	**Driller Supplier**	**: OGS**	**Client**	**: RioCan**
Northing	**: 5027715.34**	**Logged By**	**: EN, TK**	**Project**	**: RioCan Westage - 1309 Carling Ave**
RL	**: 73.884(m)**	**Reviewed By**	**: BV**	**Location**	**: 1309 Carling Avenue, Ottawa, ON, Canada**
Total Depth	**: 20.57 m**	**Date**	**: 11/03/2025**	**Loc Comment**	**: Elevation is Top of PVC Casing**

Depth (ft)	Depth (m)	Elevation (m masl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	RQD% and TCR%	RQD	Water	Well Diagram	Remarks / Observations
67			NMLC Coring	LIMST		good quality, very strong			RQD = 80%	0 20 40 60 80 100		Formation - collapse	
						25-08 Terminated at 20.57m (upon reaching target depth Monitoring well installed.)							

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Geosyntec consultants

Borehole No: 25-09

MTM	**: 9**	**Driller Rig**	**: CME 75 HT**	**Job Number**	**: TR1363B**
Easting	**: 364771.63**	**Driller Supplier**	**: OGS**	**Client**	**: RioCan**
Northing	**: 5027678.26**	**Logged By**	**: EN, TK**	**Project**	**: RioCan Westage - 1309 Carling Ave**
RL	**: 74.227(m)**	**Reviewed By**	**: BV**	**Location**	**: 1309 Carling Avenue, Ottawa, ON, Canada**
Total Depth	**: 3.65 m**	**Date**	**: 20/03/2025**	**Loc Comment**	**:**

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
1	0.19	74	Split Spoon			ASPHALT	Fill							
				GP		FILL, granular fill, some silt and some clay, brown, moist		SS1		1.4				
2	0.76													
3	1			CI		SILTY CLAY, some gravel and some sand, brown to grey, very stiff, moist	Glaciomarine clay	SS2	75%	0.4	SPT 6, 11, 10, 10 (N = 21)			
4		73												
5	1.524					trace organic								
6				CI				SS3	80%	0.7	SPT 6, 10, 15, 14 (N = 25)			
7	2													
8	2.286	72				trace gravel and trace sand, stiff								
9				CI				SS4	10%	14.7	SPT 6, 6, 7, 6 (N = 13)			
10	3.038					trace organic, firm								
11		71		CI				SS5	100%	0.9	SPT 2, 1, 1, 1 (N = 2)			
						25-09 Terminated at 3.65m (upon reaching the target depth. Borehole backfilled with bentonite.)								

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Geosyntec consultants

Borehole No: 25-10

MTM	: 9	**Driller Rig**	: CME 75 HT	**Job Number**	: TR1363B
Easting	: 364599.11	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027648.88	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 75.018(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 3.65 m	**Date**	: 21/03/2025	**Loc Comment**	:

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
1	0.05	75	Hollow Stem Auger	GP		ASPHALT FILL: granular fill, brown, loose, moist	Fill							
2	0.76													
3	1	74		Cl		SILTY CLAY, grey, hard, moist	Glaciomarine clay	SS1	100%	1	SPT 12, 22, 14, 8 (N = 36)			
4														
5	1.52					grey to brown, stiff								
6				Cl				SS2	100%	0.8	SPT 4, 6, 8, 9 (N = 14)			
7	2	73												
8	2.29					firm								
9				Cl				SS3	80%	0.1	SPT 1, 3, 3, 4 (N = 6)			
10	3.05	72				grey, wet								
11				Cl				SS4	80%	0.3	SPT 1, 2, 2, 1 (N = 4)			
						25-10 Terminated at 3.65m (upon reaching target depth. Backfilled with bentonite.)								

This report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for environmental purposes only, without attempt to consider geotechnical properties or the geotechnical significance of the materials encountered. As such it should not be relied upon for geotechnical purposes.

Geosyntec consultants

Borehole No: 25-11

MTM	: 9	**Driller Rig**	: Hilti DD250	**Job Number**	: TR1363B
Easting	: 364781.18	**Driller Supplier**	: OGS	**Client**	: RioCan
Northing	: 5027780.30	**Logged By**	: EN, TK	**Project**	: RioCan Westage - 1309 Carling Ave
RL	: 74.404(m)	**Reviewed By**	: BV	**Location**	: 1309 Carling Avenue, Ottawa, ON, Canada
Total Depth	: 4.27 m	**Date**	: 21/03/2025	**Loc Comment**	:

Depth (ft)	Depth (m)	Elevation (m amsl)	Drilling Method	Classification Code	Graphic Log	Material Description	Stratigraphy	Samples	Recovery (%)	PID (ppm)	SPT	Water	Well Diagram	Remarks / Observations
1	0.061	74	Hollow Stem Auger	GP		ASPHALT	Fill							
						FILL: granular fill gravel with sand, grey, compact, wet		SS1	75%	0.4	SPT 14, 21, 0 (N = 21)			
2	0.61			SW		FILL: silty sand, some gravel, brown, dense, moist		SS2	33%	0.1	SPT 20, 9, 34, 30 (N = 43)			
3	1													
4	1.219	73		SW		trace clay		SS3	50%	0.3	SPT 18, 22, 19, 5 (N = 41)			
5														
6	1.829			SW		with asphalt, brown to balck, loose		SS4	33%	1.3	SPT 3, 3, 4, 3 (N = 7)			
7	2													
8	2.44	72		SM		SANDY SILT, some gravel, brown, compact, moist	Glaciomarine clay	SS5	20%	2.4	SPT 3, 7, 7, 21 (N = 14)			
9														
10	3.05			SM		some clay, brown to grey		SS6	33%	3.9	SPT 4, 4, 6, 9 (N = 10)			
11		71												
12	3.661			SM		grey, dense, wet		SS7	25%	1	SPT 17, 50, 42, 24 (N = 92)			
13	4													
14						**25-11 Terminated at 4.27m (upon reaching target depth. Backfilled with bentonite.)**								

This report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for environmental purposes only, without attempt to consider geotechnical properties or the geotechnical significance of the materials encountered. As such it should not be relied upon for geotechnical purposes.

Appendix C
Laboratory Reports

AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z258057

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Mar 21, 2025

PAGES (INCLUDING COVER): 14

VERSION*: 1

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

*Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
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- *The test results reported herewith relate only to the samples as received by the laboratory.*
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- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

AGAT Laboratories

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CANADA L4Z 1Y2
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z258057

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling, Ottawa, ON

SAMPLED BY:Tristan Kennaley

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2025-03-13

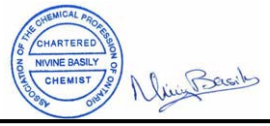
DATE REPORTED: 2025-03-21

				25-08-SS1_2.
		SAMPLE DESCRIPTION:		5-4.5
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-03-12 08:45
Parameter	Unit	G / S	RDL	6583475
Antimony	µg/g		0.8	<0.8
Arsenic	µg/g		1	3
Barium	µg/g		2.0	368
Beryllium	µg/g		0.5	1.0
Boron	µg/g		5	9
Boron (Hot Water Soluble)	µg/g		0.10	0.28
Cadmium	µg/g		0.5	<0.5
Chromium	µg/g		5	127
Cobalt	µg/g		0.8	24.7
Copper	µg/g		1.0	47.0
Lead	µg/g		1	9
Molybdenum	µg/g		0.5	0.9
Nickel	µg/g		1	64
Selenium	µg/g		0.8	<0.8
Silver	µg/g		0.5	<0.5
Thallium	µg/g		0.5	<0.5
Uranium	µg/g		0.50	1.12
Vanadium	µg/g		2.0	101
Zinc	µg/g		5	107
Chromium, Hexavalent	µg/g		0.2	<0.2
Mercury	µg/g		0.10	<0.10

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories
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Certificate of Analysis

AGAT WORK ORDER: 25Z258057

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-13

DATE REPORTED: 2025-03-21

				SAMPLE DESCRIPTION:	25-08-SS1_2. 5-4.5
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-12 08:45
Parameter	Unit	G / S	RDL		6583475
Naphthalene	µg/g		0.05		<0.05
Acenaphthylene	µg/g		0.05		<0.05
Acenaphthene	µg/g		0.05		<0.05
Fluorene	µg/g		0.05		<0.05
Phenanthrene	µg/g		0.05		<0.05
Anthracene	µg/g		0.05		<0.05
Fluoranthene	µg/g		0.05		<0.05
Pyrene	µg/g		0.05		<0.05
Benzo(a)anthracene	µg/g		0.05		<0.05
Chrysene	µg/g		0.05		<0.05
Benzo(b)fluoranthene	µg/g		0.05		<0.05
Benzo(k)fluoranthene	µg/g		0.05		<0.05
Benzo(a)pyrene	µg/g		0.05		<0.05
Indeno(1,2,3-cd)pyrene	µg/g		0.05		<0.05
Dibenz(a,h)anthracene	µg/g		0.05		<0.05
Benzo(g,h,i)perylene	µg/g		0.05		<0.05
2-and 1-methyl Naphthalene	µg/g		0.05		<0.05
Moisture Content	%		0.1		28.6
Surrogate	Unit	Acceptable Limits			
Naphthalene-d8	%	50-140			70
Acridine-d9	%	50-140			85
Terphenyl-d14	%	50-140			80

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

6583475 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z258057

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-13

DATE REPORTED: 2025-03-21

				SAMPLE DESCRIPTION:	25-08-SS1_2. 5-4.5
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-12 08:45
Parameter	Unit	G / S	RDL		6583475
F1 (C6 to C10)	µg/g		5		<5
F1 (C6 to C10) minus BTEX	µg/g		5		<5
F2 (C10 to C16)	µg/g		10		<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		<10
F3 (C16 to C34)	µg/g		50		<50
F3 (C16 to C34) minus PAHs	µg/g		50		<50
F4 (C34 to C50)	µg/g		50		<50
Gravimetric Heavy Hydrocarbons	µg/g		50		NA
Moisture Content	%		0.1		28.6
Surrogate	Unit	Acceptable Limits			
Toluene-d8	%	50-140			103
Terphenyl	%	60-140			110

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

6583475 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z258057

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-13

DATE REPORTED: 2025-03-21

				25-08-SS1_2.
		SAMPLE DESCRIPTION:		5-4.5
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-03-12 08:45
Parameter	Unit	G / S	RDL	6583475
Dichlorodifluoromethane	µg/g		0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02
Bromomethane	ug/g		0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05
Acetone	ug/g		0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02
Chloroform	ug/g		0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05
Benzene	ug/g		0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04
Toluene	ug/g		0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z258057

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-13

DATE REPORTED: 2025-03-21

				25-08-SS1_2.
		SAMPLE DESCRIPTION:		5-4.5
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-03-12 08:45
Parameter	Unit	G / S	RDL	6583475
Ethylbenzene	ug/g		0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05
Bromoform	ug/g		0.05	<0.05
Styrene	ug/g		0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05	<0.05
o-Xylene	ug/g		0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05	<0.05
Xylenes (Total)	ug/g		0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g		0.05	<0.05
n-Hexane	µg/g		0.05	<0.05
Moisture Content	%		0.1	28.6
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140		103
4-Bromofluorobenzene	% Recovery	50-140		80

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

6583475 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z258057
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Soil Analysis

RPT Date: Mar 21, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6582977		<0.8	<0.8	NA	< 0.8	105%	70%	130%	97%	80%	120%	84%	70%	130%
Arsenic	6582977		4	3	NA	< 1	111%	70%	130%	95%	80%	120%	88%	70%	130%
Barium	6582977		47.1	44.0	6.8%	< 2.0	103%	70%	130%	103%	80%	120%	98%	70%	130%
Beryllium	6582977		<0.5	<0.5	NA	< 0.5	102%	70%	130%	102%	80%	120%	97%	70%	130%
Boron	6582977		9	8	NA	< 5	93%	70%	130%	109%	80%	120%	93%	70%	130%
Boron (Hot Water Soluble)	6583005		0.15	0.15	NA	< 0.10	97%	60%	140%	101%	70%	130%	108%	60%	140%
Cadmium	6582977		<0.5	<0.5	NA	< 0.5	109%	70%	130%	101%	80%	120%	99%	70%	130%
Chromium	6582977		9	8	NA	< 5	106%	70%	130%	106%	80%	120%	90%	70%	130%
Cobalt	6582977		4.4	4.2	4.7%	< 0.8	93%	70%	130%	99%	80%	120%	88%	70%	130%
Copper	6582977		23.0	22.6	1.8%	< 1.0	99%	70%	130%	105%	80%	120%	80%	70%	130%
Lead	6582977		9	8	11.8%	< 1	103%	70%	130%	113%	80%	120%	101%	70%	130%
Molybdenum	6582977		<0.5	<0.5	NA	< 0.5	111%	70%	130%	106%	80%	120%	104%	70%	130%
Nickel	6582977		10	9	10.5%	< 1	98%	70%	130%	102%	80%	120%	87%	70%	130%
Selenium	6582977		<0.8	<0.8	NA	< 0.8	108%	70%	130%	105%	80%	120%	97%	70%	130%
Silver	6582977		<0.5	<0.5	NA	< 0.5	107%	70%	130%	100%	80%	120%	94%	70%	130%
Thallium	6582977		<0.5	<0.5	NA	< 0.5	102%	70%	130%	106%	80%	120%	94%	70%	130%
Uranium	6582977		<0.50	<0.50	NA	< 0.50	109%	70%	130%	106%	80%	120%	97%	70%	130%
Vanadium	6582977		15.5	15.3	1.3%	< 2.0	108%	70%	130%	102%	80%	120%	90%	70%	130%
Zinc	6582977		41	39	5.0%	< 5	101%	70%	130%	100%	80%	120%	81%	70%	130%
Chromium, Hexavalent	6582762		<0.2	<0.2	NA	< 0.2	99%	70%	130%	92%	80%	120%	71%	70%	130%
Mercury	6582977		<0.10	<0.10	NA	< 0.10	103%	70%	130%	95%	80%	120%	91%	70%	130%

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

Certified By:

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z258057
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis

RPT Date: Mar 21, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6580417		<0.05	<0.05	NA	< 0.05	115%	50%	140%	80%	50%	140%	88%	50%	140%
Acenaphthylene	6580417		<0.05	<0.05	NA	< 0.05	111%	50%	140%	78%	50%	140%	78%	50%	140%
Acenaphthene	6580417		<0.05	<0.05	NA	< 0.05	105%	50%	140%	78%	50%	140%	73%	50%	140%
Fluorene	6580417		<0.05	<0.05	NA	< 0.05	107%	50%	140%	73%	50%	140%	73%	50%	140%
Phenanthrene	6580417		<0.05	<0.05	NA	< 0.05	105%	50%	140%	98%	50%	140%	85%	50%	140%
Anthracene	6580417		<0.05	<0.05	NA	< 0.05	102%	50%	140%	85%	50%	140%	90%	50%	140%
Fluoranthene	6580417		<0.05	<0.05	NA	< 0.05	97%	50%	140%	75%	50%	140%	85%	50%	140%
Pyrene	6580417		<0.05	<0.05	NA	< 0.05	93%	50%	140%	75%	50%	140%	73%	50%	140%
Benzo(a)anthracene	6580417		<0.05	<0.05	NA	< 0.05	86%	50%	140%	88%	50%	140%	78%	50%	140%
Chrysene	6580417		<0.05	<0.05	NA	< 0.05	111%	50%	140%	73%	50%	140%	73%	50%	140%
Benzo(b)fluoranthene	6580417		<0.05	<0.05	NA	< 0.05	84%	50%	140%	85%	50%	140%	85%	50%	140%
Benzo(k)fluoranthene	6580417		<0.05	<0.05	NA	< 0.05	104%	50%	140%	73%	50%	140%	80%	50%	140%
Benzo(a)pyrene	6580417		<0.05	<0.05	NA	< 0.05	88%	50%	140%	95%	50%	140%	93%	50%	140%
Indeno(1,2,3-cd)pyrene	6580417		<0.05	<0.05	NA	< 0.05	80%	50%	140%	103%	50%	140%	103%	50%	140%
Dibenz(a,h)anthracene	6580417		<0.05	<0.05	NA	< 0.05	85%	50%	140%	80%	50%	140%	85%	50%	140%
Benzo(g,h,i)perylene	6580417		<0.05	<0.05	NA	< 0.05	96%	50%	140%	73%	50%	140%	75%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6583512		<5	<5	NA	< 5	110%	60%	140%	116%	60%	140%	81%	60%	140%
F2 (C10 to C16)	6581144		< 10	< 10	NA	< 10	103%	60%	140%	99%	60%	140%	114%	60%	140%
F3 (C16 to C34)	6581144		< 50	< 50	NA	< 50	107%	60%	140%	124%	60%	140%	126%	60%	140%
F4 (C34 to C50)	6581144		< 50	< 50	NA	< 50	80%	60%	140%	120%	60%	140%	84%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6583512		<0.05	<0.05	NA	< 0.05	109%	50%	140%	99%	50%	140%	95%	50%	140%
Vinyl Chloride	6583512		<0.02	<0.02	NA	< 0.02	109%	50%	140%	99%	50%	140%	64%	50%	140%
Bromomethane	6583512		<0.05	<0.05	NA	< 0.05	99%	50%	140%	119%	50%	140%	60%	50%	140%
Trichlorofluoromethane	6583512		<0.05	<0.05	NA	< 0.05	96%	50%	140%	109%	50%	140%	66%	50%	140%
Acetone	6583512		<0.50	<0.50	NA	< 0.50	104%	50%	140%	105%	50%	140%	78%	50%	140%
1,1-Dichloroethylene	1658351		<0.05	<0.05	NA	< 0.05	105%	50%	140%	106%	60%	130%	75%	50%	140%
Methylene Chloride	6583512		<0.05	<0.05	NA	< 0.05	98%	50%	140%	111%	60%	130%	83%	50%	140%
Trans- 1,2-Dichloroethylene	6583512		<0.05	<0.05	NA	< 0.05	99%	50%	140%	98%	60%	130%	82%	50%	140%
Methyl tert-butyl Ether	6583512		<0.05	<0.05	NA	< 0.05	118%	50%	140%	119%	60%	130%	86%	50%	140%
1,1-Dichloroethane	6583512		<0.02	<0.02	NA	< 0.02	108%	50%	140%	90%	60%	130%	83%	50%	140%
Methyl Ethyl Ketone	6583512		<0.50	<0.50	NA	< 0.50	104%	50%	140%	96%	50%	140%	117%	50%	140%
Cis- 1,2-Dichloroethylene	6583512		<0.02	<0.02	NA	< 0.02	112%	50%	140%	104%	60%	130%	92%	50%	140%
Chloroform	6583512		<0.04	<0.04	NA	< 0.04	117%	50%	140%	104%	60%	130%	111%	50%	140%
1,2-Dichloroethane	6583512		<0.03	<0.03	NA	< 0.03	109%	50%	140%	93%	60%	130%	105%	50%	140%
1,1,1-Trichloroethane	6583512		<0.05	<0.05	NA	< 0.05	105%	50%	140%	105%	60%	130%	97%	50%	140%
Carbon Tetrachloride	6583512		<0.05	<0.05	NA	< 0.05	112%	50%	140%	106%	60%	130%	92%	50%	140%

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Quality Assurance

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AGAT WORK ORDER: 25Z258057
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis (Continued)

RPT Date: Mar 21, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	6583512		<0.02	<0.02	NA	< 0.02	107%	50%	140%	102%	60%	130%	112%	50%	140%
1,2-Dichloropropane	6583512		<0.03	<0.03	NA	< 0.03	111%	50%	140%	86%	60%	130%	104%	50%	140%
Trichloroethylene	6583512		<0.03	<0.03	NA	< 0.03	119%	50%	140%	98%	60%	130%	86%	50%	140%
Bromodichloromethane	6583512		<0.05	<0.05	NA	< 0.05	102%	50%	140%	116%	60%	130%	90%	50%	140%
Methyl Isobutyl Ketone	6583512		<0.50	<0.50	NA	< 0.50	87%	50%	140%	109%	50%	140%	107%	50%	140%
1,1,2-Trichloroethane	6583512		<0.04	<0.04	NA	< 0.04	78%	50%	140%	113%	60%	130%	103%	50%	140%
Toluene	6583512		<0.05	<0.05	NA	< 0.05	78%	50%	140%	104%	60%	130%	111%	50%	140%
Dibromochloromethane	6583512		<0.05	<0.05	NA	< 0.05	69%	50%	140%	114%	60%	130%	79%	50%	140%
Ethylene Dibromide	6583512		<0.04	<0.04	NA	< 0.04	79%	50%	140%	111%	60%	130%	109%	50%	140%
Tetrachloroethylene	1658351		<0.05	<0.05	NA	< 0.05	88%	50%	140%	110%	60%	130%	105%	50%	140%
1,1,1,2-Tetrachloroethane	6583512		<0.04	<0.04	NA	< 0.04	102%	50%	140%	112%	60%	130%	102%	50%	140%
Chlorobenzene	6583512		<0.05	<0.05	NA	< 0.05	84%	50%	140%	111%	60%	130%	114%	50%	140%
Ethylbenzene	6583512		<0.05	<0.05	NA	< 0.05	82%	50%	140%	118%	60%	130%	92%	50%	140%
m & p-Xylene	6583512		<0.05	<0.05	NA	< 0.05	84%	50%	140%	112%	60%	130%	119%	50%	140%
Bromoform	6583512		<0.05	<0.05	NA	< 0.05	118%	50%	140%	92%	60%	130%	119%	50%	140%
Styrene	6583512		<0.05	<0.05	NA	< 0.05	75%	50%	140%	104%	60%	130%	101%	50%	140%
1,1,2,2-Tetrachloroethane	6583512		<0.05	<0.05	NA	< 0.05	86%	50%	140%	98%	60%	130%	93%	50%	140%
o-Xylene	6583512		<0.05	<0.05	NA	< 0.05	87%	50%	140%	79%	60%	130%	100%	50%	140%
1,3-Dichlorobenzene	6583512		<0.05	<0.05	NA	< 0.05	97%	50%	140%	97%	60%	130%	101%	50%	140%
1,4-Dichlorobenzene	6583512		<0.05	<0.05	NA	< 0.05	92%	50%	140%	91%	60%	130%	105%	50%	140%
1,2-Dichlorobenzene	6583512		<0.05	<0.05	NA	< 0.05	90%	50%	140%	82%	60%	130%	96%	50%	140%
n-Hexane	6583512		<0.05	<0.05	NA	< 0.05	91%	50%	140%	71%	60%	130%	65%	50%	140%

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

Certified By: R. Chakraborty

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Method Summary

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AGAT WORK ORDER: 25Z258057

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling, Ottawa, ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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

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PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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Mississauga, Ontario L4Z 1Y2
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webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph, ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Project Information:

Project: TR1363B
Site Location: 1309 Carling, Ottawa, ON
Sampled By: Tristan Kemsley
AGAT Quote #: 342166089942 PO: 6501
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph, ON
Email: Kevin.Kim@Geosyntec.com

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine
☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture
☐ Regulation 558
☐ CCME
☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other (Indicate One)

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

Report Guideline on Certificate of Analysis: ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 25225805-7
Cooler Quantity: one - bag of ice
Arrival Temperatures: 2.8 | 2.3 | 2.1
Depot Temperatures: 2.0 | 2.4 | 2.3
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: ICE

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. 25-08-SS1_2.5-4.5	12/03/25	8:45 AM/PM	5	Soil		N	X		X		X	X						
2. 25-08-SS7_20-22	12/03/25	9:10 AM/PM	4	Soil	Hold													
3.		AM/PM																
4.		AM/PM																
5.		AM/PM																
6.		AM/PM																
7.		AM/PM																
8.		AM/PM																
9.		AM/PM																
10.		AM/PM																

1. Comments: Please send Esdat format EDDs to esdat+geosyntec@esdatlabsync.net

Relinquished By (Print Name and Sign)	Date	Time	Received By (Print Name and Sign)	Date	Time
Tristan Kemsley	12/03/25	18:00	M. GRASIC	03/13/25	08h03
to Pure	03/13/25	15h00		Mar 14	9:15

Page 1 of 1

N°: T - 167272

Date Issued: Aug 29, 2024

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AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z258973

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Apr 16, 2025

PAGES (INCLUDING COVER): 18

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

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Certificate of Analysis

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

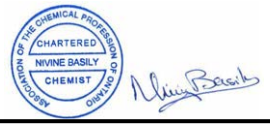
O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2025-03-17

DATE REPORTED: 2025-04-16

Parameter	Unit	G / S	RDL	25-03-SS1_0.5-2.5 Soil 2025-03-14 13:50 6589456	25-03-SS4_7.5-9.5 Soil 2025-03-14 13:40 6589524	25-07-SS1_2.0-3.0 Soil 2025-03-14 11:05 6589528	25-07-SS3_7.5-9.5 Soil 2025-03-14 11:25 6589530	DUP01 Soil 2025-03-14 12:01 6589578
Antimony	µg/g	40	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	2	4	2	4
Barium	µg/g	670	2.0	137	404	103	379	102
Beryllium	µg/g	8	0.5	0.6	0.8	0.6	0.9	0.6
Boron	µg/g	120	5	12	6	13	6	13
Boron (Hot Water Soluble)	µg/g	2	0.10	0.33	0.19	0.31	0.16	0.33
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	45	102	26	110	28
Cobalt	µg/g	80	0.8	12.0	21.3	9.5	21.5	9.9
Copper	µg/g	230	1.0	28.5	44.9	23.9	46.7	25.8
Lead	µg/g	120	1	12	7	13	8	15
Molybdenum	µg/g	40	0.5	2.2	0.9	2.2	0.5	1.8
Nickel	µg/g	270	1	32	58	25	60	25
Selenium	µg/g	5.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	40	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	3.3	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	33	0.50	0.73	0.90	0.68	0.95	0.62
Vanadium	µg/g	86	2.0	47.6	109	33.1	104	33.6
Zinc	µg/g	340	5	59	119	43	111	45
Chromium, Hexavalent	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	3.9	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.930	0.786	1.72	4.56	1.86
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	10.0	9.3	14	17	17
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.53	7.42	7.72	7.37	7.69

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-17

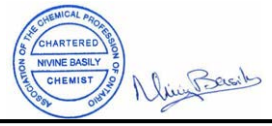
DATE REPORTED: 2025-04-16

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6589456-6589578 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-17

DATE REPORTED: 2025-04-16

SAMPLE DESCRIPTION:				25-03-SS1_0.5-2.5	25-03-SS4_7.5-9.5	25-07-SS1_2.0-3.0	25-07-SS3_7.5-9.5	DUP01
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-14 13:50	2025-03-14 13:40	2025-03-14 11:05	2025-03-14 11:25	2025-03-14 12:01
Parameter	Unit	G / S	RDL	6589456	6589524	6589528	6589530	6589578
Naphthalene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	12	0.05	0.06	<0.05	0.16	<0.05	0.18
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	0.05	<0.05	0.05
Fluoranthene	µg/g	9.6	0.05	0.21	<0.05	0.25	<0.05	0.28
Pyrene	µg/g	96	0.05	0.20	<0.05	0.19	<0.05	0.23
Benzo(a)anthracene	µg/g	0.96	0.05	0.10	<0.05	0.08	<0.05	0.09
Chrysene	µg/g	9.6	0.05	0.13	<0.05	0.14	<0.05	0.15
Benzo(b)fluoranthene	µg/g	0.96	0.05	0.12	<0.05	0.11	<0.05	0.12
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	0.06
Benzo(a)pyrene	µg/g	0.3	0.05	0.11	<0.05	0.08	<0.05	0.09
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	0.06	<0.05	0.05	<0.05	0.06
2-and 1-methyl Naphthalene	µg/g	76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	12.9	36.1	7.9	30.4	7.2
Surrogate	Unit	Acceptable Limits						
Naphthalene-d8	%	50-140		70	70	75	80	70
Acridine-d9	%	50-140		95	105	100	90	85
Terphenyl-d14	%	50-140		85	75	75	80	115

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-17

DATE REPORTED: 2025-04-16

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6589456-6589578 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CANADA L4Z 1Y2
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Certificate of Analysis

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-17

DATE REPORTED: 2025-04-16

				25-07-SS1_2.	25-07-SS3_7.	
		SAMPLE DESCRIPTION:		0-3.0	5-9.5	DUP01
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2025-03-14 11:05	2025-03-14 11:25	2025-03-14 12:01
Parameter	Unit	G / S	RDL	6589528	6589530	6589578
Polychlorinated Biphenyls	µg/g		0.1	<0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits				
Decachlorobiphenyl	%	50-140		80	96	88

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

6589528-6589578 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-17

DATE REPORTED: 2025-04-16

				25-03-SS1_0.	25-03-SS4_7.	25-07-SS1_2.	25-07-SS3_7.	
SAMPLE DESCRIPTION:				5-2.5	5-9.5	0-3.0	5-9.5	DUP01
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-14 13:50	2025-03-14 13:40	2025-03-14 11:05	2025-03-14 11:25	2025-03-14 12:01
Parameter	Unit	G / S	RDL	6589456	6589524	6589528	6589530	6589578
F1 (C6 to C10)	µg/g	55	5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	230	10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1700	50	<50	<50	179	<50	134
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50	178	<50	133
F4 (C34 to C50)	µg/g	3300	50	<50	<50	113	<50	81
Gravimetric Heavy Hydrocarbons	µg/g	3300	50	NA	NA	NA	NA	NA
Surrogate	Unit	Acceptable Limits						
Toluene-d8	%	50-140		100	102	104	96	101
Terphenyl	%	60-140		120	99	120	110	110

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6589456-6589578 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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

Certificate of Analysis

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-17

DATE REPORTED: 2025-04-16

SAMPLE DESCRIPTION:				25-03-SS1_0.5-2.5	25-03-SS4_7.5-9.5	25-07-SS1_2.0-3.0	25-07-SS3_7.5-9.5	DUP01
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-14 13:50	2025-03-14 13:40	2025-03-14 11:05	2025-03-14 11:25	2025-03-14 12:01
Parameter	Unit	G / S	RDL	6589456	6589524	6589528	6589530	6589578
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.032	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.064	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	1.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	70	0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	55	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.47	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	6.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.21	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.32	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.16	0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.91	0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	31	0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	68	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	4.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.087	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-17

DATE REPORTED: 2025-04-16

SAMPLE DESCRIPTION:				25-03-SS1_0.5-2.5	25-03-SS4_7.5-9.5	25-07-SS1_2.0-3.0	25-07-SS3_7.5-9.5	DUP01
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-14 13:50	2025-03-14 13:40	2025-03-14 11:05	2025-03-14 11:25	2025-03-14 12:01
Parameter	Unit	G / S	RDL	6589456	6589524	6589528	6589530	6589578
Ethylbenzene	ug/g	9.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.61	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	6.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.18	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	46	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits						
Toluene-d8	% Recovery	50-140		100	102	104	96	101
4-Bromofluorobenzene	% Recovery	50-140		76	74	76	74	82

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6589456-6589578 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Exceedance Summary

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6589524	25-03-SS4_7.5-9.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	109
6589528	25-07-SS1_2.0-3.0	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	1.72
6589528	25-07-SS1_2.0-3.0	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	14
6589530	25-07-SS3_7.5-9.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	4.56
6589530	25-07-SS3_7.5-9.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	17
6589530	25-07-SS3_7.5-9.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	104
6589578	DUP01	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	1.86
6589578	DUP01	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	17

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z258973
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Soil Analysis

RPT Date: Apr 16, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6589187		<0.8	<0.8	NA	< 0.8	115%	70%	130%	100%	80%	120%	102%	70%	130%
Arsenic	6589187		3	3	NA	< 1	107%	70%	130%	94%	80%	120%	92%	70%	130%
Barium	6589187		136	139	2.5%	< 2.0	99%	70%	130%	101%	80%	120%	107%	70%	130%
Beryllium	6589187		0.6	0.6	NA	< 0.5	89%	70%	130%	98%	80%	120%	105%	70%	130%
Boron	6589187		15	14	NA	< 5	75%	70%	130%	80%	80%	120%	89%	70%	130%
Boron (Hot Water Soluble)	6586043		0.14	0.16	NA	< 0.10	112%	60%	140%	104%	70%	130%	106%	60%	140%
Cadmium	6589187		<0.5	<0.5	NA	< 0.5	110%	70%	130%	100%	80%	120%	107%	70%	130%
Chromium	6589187		23	23	NA	< 5	95%	70%	130%	95%	80%	120%	NA	70%	130%
Cobalt	6589187		7.6	7.6	0.4%	< 0.8	91%	70%	130%	94%	80%	120%	95%	70%	130%
Copper	6589187		14.2	14.5	2.1%	< 1.0	86%	70%	130%	95%	80%	120%	94%	70%	130%
Lead	6589187		27	27	0.2%	< 1	98%	70%	130%	103%	80%	120%	109%	70%	130%
Molybdenum	6589187		<0.5	<0.5	NA	< 0.5	104%	70%	130%	106%	80%	120%	108%	70%	130%
Nickel	6589187		17	17	0.5%	< 1	94%	70%	130%	98%	80%	120%	96%	70%	130%
Selenium	6589187		<0.8	<0.8	NA	< 0.8	92%	70%	130%	98%	80%	120%	99%	70%	130%
Silver	6589187		<0.5	<0.5	NA	< 0.5	94%	70%	130%	102%	80%	120%	101%	70%	130%
Thallium	6589187		<0.5	<0.5	NA	< 0.5	101%	70%	130%	95%	80%	120%	96%	70%	130%
Uranium	6589187		0.52	0.52	NA	< 0.50	98%	70%	130%	96%	80%	120%	102%	70%	130%
Vanadium	6589187		33.1	32.6	1.6%	< 2.0	101%	70%	130%	95%	80%	120%	98%	70%	130%
Zinc	6589187		54	56	3.9%	< 5	93%	70%	130%	92%	80%	120%	NA	70%	130%
Chromium, Hexavalent	6597486		<0.2	<0.2	NA	< 0.2	96%	70%	130%	94%	80%	120%	70%	70%	130%
Cyanide, WAD	6589456	6589456	<0.040	<0.040	NA	< 0.040	90%	70%	130%	91%	80%	120%	94%	70%	130%
Mercury	6589187		<0.10	<0.10	NA	< 0.10	102%	70%	130%	100%	80%	120%	103%	70%	130%
Electrical Conductivity (2:1)	6589456	6589456	0.930	0.988	6.1%	< 0.005	103%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6589456	6589456	10.0	10.0	0.5%	NA									
pH, 2:1 CaCl2 Extraction	6594897		7.01	6.81	2.9%	NA	98%	80%	120%						

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

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

Certified By:

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

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MISSISSAUGA, ONTARIO
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z258973
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis

RPT Date: Apr 16, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6590412		<5	<5	NA	< 5	113%	60%	140%	125%	60%	140%	85%	60%	140%
F2 (C10 to C16)	6589528	6589528	< 10	< 10	NA	< 10	100%	60%	140%	124%	60%	140%	122%	60%	140%
F3 (C16 to C34)	6589528	6589528	179	150	NA	< 50	96%	60%	140%	128%	60%	140%	121%	60%	140%
F4 (C34 to C50)	6589528	6589528	113	105	NA	< 50	90%	60%	140%	117%	60%	140%	104%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	1658761		<0.05	<0.05	NA	< 0.05	70%	50%	140%	85%	50%	140%	65%	50%	140%
Vinyl Chloride	6587616		<0.02	<0.02	NA	< 0.02	64%	50%	140%	84%	50%	140%	65%	50%	140%
Bromomethane	6587616		<0.05	<0.05	NA	< 0.05	79%	50%	140%	79%	50%	140%	91%	50%	140%
Trichlorofluoromethane	6587616		<0.05	<0.05	NA	< 0.05	51%	50%	140%	91%	50%	140%	81%	50%	140%
Acetone	6587616		<0.50	<0.50	NA	< 0.50	85%	50%	140%	107%	50%	140%	108%	50%	140%
1,1-Dichloroethylene	1658761		<0.05	<0.05	NA	< 0.05	84%	50%	140%	108%	60%	130%	109%	50%	140%
Methylene Chloride	6587616		<0.05	<0.05	NA	< 0.05	64%	50%	140%	113%	60%	130%	88%	50%	140%
Trans- 1,2-Dichloroethylene	6587616		<0.05	<0.05	NA	< 0.05	100%	50%	140%	114%	60%	130%	81%	50%	140%
Methyl tert-butyl Ether	6587616		<0.05	<0.05	NA	< 0.05	72%	50%	140%	116%	60%	130%	82%	50%	140%
1,1-Dichloroethane	6587616		<0.02	<0.02	NA	< 0.02	65%	50%	140%	118%	60%	130%	68%	50%	140%
Methyl Ethyl Ketone	6587616		<0.50	<0.50	NA	< 0.50	103%	50%	140%	113%	50%	140%	81%	50%	140%
Cis- 1,2-Dichloroethylene	6587616		<0.02	<0.02	NA	< 0.02	84%	50%	140%	109%	60%	130%	60%	50%	140%
Chloroform	6587616		<0.04	<0.04	NA	< 0.04	66%	50%	140%	110%	60%	130%	65%	50%	140%
1,2-Dichloroethane	6587616		<0.03	<0.03	NA	< 0.03	66%	50%	140%	103%	60%	130%	65%	50%	140%
1,1,1-Trichloroethane	6587616		<0.05	<0.05	NA	< 0.05	85%	50%	140%	102%	60%	130%	98%	50%	140%
Carbon Tetrachloride	6587616		<0.05	<0.05	NA	< 0.05	79%	50%	140%	94%	60%	130%	83%	50%	140%
Benzene	6587616		<0.02	<0.02	NA	< 0.02	83%	50%	140%	115%	60%	130%	61%	50%	140%
1,2-Dichloropropane	6587616		<0.03	<0.03	NA	< 0.03	73%	50%	140%	112%	60%	130%	90%	50%	140%
Trichloroethylene	6587616		<0.03	<0.03	NA	< 0.03	62%	50%	140%	111%	60%	130%	62%	50%	140%
Bromodichloromethane	6587616		<0.05	<0.05	NA	< 0.05	90%	50%	140%	102%	60%	130%	63%	50%	140%
Methyl Isobutyl Ketone	6587616		<0.50	<0.50	NA	< 0.50	100%	50%	140%	90%	50%	140%	98%	50%	140%
1,1,2-Trichloroethane	6587616		<0.04	<0.04	NA	< 0.04	79%	50%	140%	116%	60%	130%	76%	50%	140%
Toluene	6587616		<0.05	<0.05	NA	< 0.05	79%	50%	140%	114%	60%	130%	78%	50%	140%
Dibromochloromethane	6587616		<0.05	<0.05	NA	< 0.05	72%	50%	140%	106%	60%	130%	75%	50%	140%
Ethylene Dibromide	6587616		<0.04	<0.04	NA	< 0.04	81%	50%	140%	116%	60%	130%	80%	50%	140%
Tetrachloroethylene	1		<0.05	<0.05	NA	< 0.05	80%	50%	140%	110%	60%	130%	85%	50%	140%
1,1,1,2-Tetrachloroethane	6587616		<0.04	<0.04	NA	< 0.04	114%	50%	140%	107%	60%	130%	114%	50%	140%
Chlorobenzene	6587616		<0.05	<0.05	NA	< 0.05	81%	50%	140%	113%	60%	130%	92%	50%	140%
Ethylbenzene	6587616		<0.05	<0.05	NA	< 0.05	74%	50%	140%	114%	60%	130%	76%	50%	140%
m & p-Xylene	6587616		<0.05	<0.05	NA	< 0.05	80%	50%	140%	112%	60%	130%	86%	50%	140%
Bromoform	6587616		<0.05	<0.05	NA	< 0.05	119%	50%	140%	98%	60%	130%	88%	50%	140%
Styrene	6587616		<0.05	<0.05	NA	< 0.05	92%	50%	140%	87%	60%	130%	96%	50%	140%
1,1,2,2-Tetrachloroethane	6587616		<0.05	<0.05	NA	< 0.05	80%	50%	140%	117%	60%	130%	89%	50%	140%
o-Xylene	6587616		<0.05	<0.05	NA	< 0.05	84%	50%	140%	102%	60%	130%	92%	50%	140%

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z258973
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis (Continued)

RPT Date: Apr 16, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	6587616		<0.05	<0.05	NA	< 0.05	91%	50%	140%	110%	60%	130%	116%	50%	140%
1,4-Dichlorobenzene	6587616		<0.05	<0.05	NA	< 0.05	94%	50%	140%	114%	60%	130%	120%	50%	140%
1,2-Dichlorobenzene	6587616		<0.05	<0.05	NA	< 0.05	89%	50%	140%	103%	60%	130%	113%	50%	140%
n-Hexane	6587616		<0.05	<0.05	NA	< 0.05	86%	50%	140%	65%	60%	130%	77%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6587616		<0.05	<0.05	NA	< 0.05	96%	50%	140%	78%	50%	140%	73%	50%	140%
Acenaphthylene	6587616		<0.05	<0.05	NA	< 0.05	112%	50%	140%	80%	50%	140%	75%	50%	140%
Acenaphthene	6587616		<0.05	<0.05	NA	< 0.05	107%	50%	140%	95%	50%	140%	73%	50%	140%
Fluorene	6587616		<0.05	<0.05	NA	< 0.05	109%	50%	140%	80%	50%	140%	73%	50%	140%
Phenanthrene	6587616		<0.05	<0.05	NA	< 0.05	104%	50%	140%	75%	50%	140%	73%	50%	140%
Anthracene	6587616		<0.05	<0.05	NA	< 0.05	101%	50%	140%	78%	50%	140%	75%	50%	140%
Fluoranthene	6587616		<0.05	<0.05	NA	< 0.05	109%	50%	140%	75%	50%	140%	73%	50%	140%
Pyrene	6587616		<0.05	<0.05	NA	< 0.05	107%	50%	140%	73%	50%	140%	80%	50%	140%
Benzo(a)anthracene	6587616		<0.05	<0.05	NA	< 0.05	78%	50%	140%	78%	50%	140%	90%	50%	140%
Chrysene	6587616		<0.05	<0.05	NA	< 0.05	117%	50%	140%	78%	50%	140%	83%	50%	140%
Benzo(b)fluoranthene	6587616		<0.05	<0.05	NA	< 0.05	108%	50%	140%	73%	50%	140%	88%	50%	140%
Benzo(k)fluoranthene	6587616		<0.05	<0.05	NA	< 0.05	114%	50%	140%	73%	50%	140%	88%	50%	140%
Benzo(a)pyrene	6587616		<0.05	<0.05	NA	< 0.05	105%	50%	140%	83%	50%	140%	88%	50%	140%
Indeno(1,2,3-cd)pyrene	6587616		<0.05	<0.05	NA	< 0.05	89%	50%	140%	73%	50%	140%	108%	50%	140%
Dibenz(a,h)anthracene	6587616		<0.05	<0.05	NA	< 0.05	78%	50%	140%	78%	50%	140%	103%	50%	140%
Benzo(g,h,i)perylene	6587616		<0.05	<0.05	NA	< 0.05	100%	50%	140%	85%	50%	140%	85%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6595721		< 0.1	< 0.1	NA	< 0.1	103%	50%	140%	104%	50%	140%	86%	50%	140%

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

Certified By: R. Chakraborty

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z258973

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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Method Summary

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PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

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Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 25225897 3

Cooler Quantity: One - Melted Ice

Arrival Temperatures: 5.9 16.0 16.2

Depot Temperatures: 9.3 9.2 19.1

Custody Seal Intact: ☐ Yes ☐ No ☑ N/A

Notes: Bagged Ice

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416.926.6005 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosyntec.com
2. Email: esdat+geosyntec@esdat.labsync.net

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other — Indicate One

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

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

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

Project: TRV363B
Site Location: 1309 Carling Ave, Ottawa, ON
Sampled By: Tristan Kennaley
AGAT Quote #: 34216608442 PO: TRV363B-6501

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

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Legal Sample ☐

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☑ CrVI, ☑ Hg, ☑ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. 25-03-SS3_0.5-2.5	14/03/25	13:50 AM	5	S		N		X	X	X	X	X							
2. 25-03-SS4_7.5-9.5	14/03/25	13:40 AM	5	S		N		X	X	X	X	X							
3. 25-03-SS8_22.5-24.5	14/03/25	14:00 AM	4	S	Hold	N													
4. 25-07-SS1_2.0-3.0	14/03/25	11:05 AM	5	S		N		X	X	X	X	X	X						
5. 25-07-SS3_7.5-9.5	14/03/25	11:25 AM	5	S		N		X	X	X	X	X	X						
6. 25-07-SS7_22.5-24.5	14/03/25	11:35 AM	3	S	Hold	N													
7. DUP01	14/03/25	00:01 AM	5	S		N		X	X	X	X	X	X						
8.		AM																	
9.		AM																	
10.		AM																	
11.		AM																	

Comments: Please send Esdat format EDDs to esdat+gcosyntec@esdat.labsync.net

Please Ignore

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Tristan Kennaley	14/03/25	17:30		03/17/25	08h30
CC to Dup	03/17/25	15h00	Tiffany	Mar 18	8:50AM

Page 1 of 1

N°: T - 167273

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

Document ID: DIV-76-1511.024
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Date Issued: Aug 29, 2024

AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z259129

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Mar 27, 2025

PAGES (INCLUDING COVER): 19

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

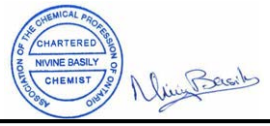
O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2025-03-18

DATE REPORTED: 2025-03-27

				SAMPLE DESCRIPTION:	25-02-SS4_6. 5-8.5
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-17 15:30
Parameter	Unit	G / S	RDL		6592553
Antimony	µg/g	40	0.8		<0.8
Arsenic	µg/g	18	1		3
Barium	µg/g	670	2.0		335
Beryllium	µg/g	8	0.5		0.7
Boron	µg/g	120	5		7
Boron (Hot Water Soluble)	µg/g	2	0.10		0.20
Cadmium	µg/g	1.9	0.5		<0.5
Chromium	µg/g	160	5		100
Cobalt	µg/g	80	0.8		20.2
Copper	µg/g	230	1.0		42.8
Lead	µg/g	120	1		9
Molybdenum	µg/g	40	0.5		1.1
Nickel	µg/g	270	1		54
Selenium	µg/g	5.5	0.8		<0.8
Silver	µg/g	40	0.5		<0.5
Thallium	µg/g	3.3	0.5		<0.5
Uranium	µg/g	33	0.50		0.89
Vanadium	µg/g	86	2.0		98.8
Zinc	µg/g	340	5		107
Chromium, Hexavalent	µg/g	8	0.2		<0.2
Cyanide, WAD	µg/g	0.051	0.040		<0.040
Mercury	µg/g	3.9	0.10		<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005		2.96
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A		5.7
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.70

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Certificate of Analysis

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-18

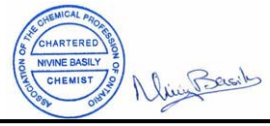
DATE REPORTED: 2025-03-27

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6592553 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-18

DATE REPORTED: 2025-03-27

				SAMPLE DESCRIPTION:	25-02-SS4_6. 5-8.5
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-17 15:30
Parameter	Unit	G / S	RDL		6592553
Naphthalene	µg/g	9.6	0.05		<0.05
Acenaphthylene	µg/g	0.15	0.05		<0.05
Acenaphthene	µg/g	96	0.05		<0.05
Fluorene	µg/g	62	0.05		<0.05
Phenanthrene	µg/g	12	0.05		<0.05
Anthracene	µg/g	0.67	0.05		<0.05
Fluoranthene	µg/g	9.6	0.05		<0.05
Pyrene	µg/g	96	0.05		<0.05
Benzo(a)anthracene	µg/g	0.96	0.05		<0.05
Chrysene	µg/g	9.6	0.05		<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05		<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05		<0.05
Benzo(a)pyrene	µg/g	0.3	0.05		<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05		<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05		<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05		<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05		<0.05
Moisture Content	%		0.1		30.6
Surrogate	Unit	Acceptable Limits			
Naphthalene-d8	%	50-140			75
Acridine-d9	%	50-140			100
Terphenyl-d14	%	50-140			80

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-18

DATE REPORTED: 2025-03-27

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6592553 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-18

DATE REPORTED: 2025-03-27

			SAMPLE DESCRIPTION:	25-02-SS4_6. 5-8.5
			SAMPLE TYPE:	Soil
			DATE SAMPLED:	2025-03-17 15:30
Parameter	Unit	G / S	RDL	6592553
Polychlorinated Biphenyls	µg/g	1.1	0.1	<0.1
Moisture Content	%		0.1	30.6
Surrogate	Unit	Acceptable Limits		
Decachlorobiphenyl	%	50-140		116

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6592553 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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Certificate of Analysis

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-18

DATE REPORTED: 2025-03-27

				SAMPLE DESCRIPTION:	25-02-SS4_6. 5-8.5
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-17 15:30
Parameter	Unit	G / S	RDL		6592553
F1 (C6 to C10)	µg/g	55	5		<5
F1 (C6 to C10) minus BTEX	µg/g	55	5		<5
F2 (C10 to C16)	µg/g	230	10		<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		<10
F3 (C16 to C34)	µg/g	1700	50		<50
F3 (C16 to C34) minus PAHs	µg/g		50		<50
F4 (C34 to C50)	µg/g	3300	50		<50
Gravimetric Heavy Hydrocarbons	µg/g	3300	50		NA
Moisture Content	%		0.1		30.6
Surrogate	Unit	Acceptable Limits			
Toluene-d8	%	50-140			103
Terphenyl	%	60-140			130

Certified By: R. Chakraberty

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AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-18

DATE REPORTED: 2025-03-27

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6592553 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-18

DATE REPORTED: 2025-03-27

				SAMPLE DESCRIPTION:	25-02-SS4_6.5-8.5
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-17 15:30
Parameter	Unit	G / S	RDL		6592553
Dichlorodifluoromethane	µg/g	16	0.05		<0.05
Vinyl Chloride	ug/g	0.032	0.02		<0.02
Bromomethane	ug/g	0.05	0.05		<0.05
Trichlorofluoromethane	ug/g	4	0.05		<0.05
Acetone	ug/g	16	0.50		<0.50
1,1-Dichloroethylene	ug/g	0.064	0.05		<0.05
Methylene Chloride	ug/g	1.6	0.05		<0.05
Trans- 1,2-Dichloroethylene	ug/g	1.3	0.05		<0.05
Methyl tert-butyl Ether	ug/g	11	0.05		<0.05
1,1-Dichloroethane	ug/g	17	0.02		<0.02
Methyl Ethyl Ketone	ug/g	70	0.50		<0.50
Cis- 1,2-Dichloroethylene	ug/g	55	0.02		<0.02
Chloroform	ug/g	0.47	0.04		<0.04
1,2-Dichloroethane	ug/g	0.05	0.03		<0.03
1,1,1-Trichloroethane	ug/g	6.1	0.05		<0.05
Carbon Tetrachloride	ug/g	0.21	0.05		<0.05
Benzene	ug/g	0.32	0.02		<0.02
1,2-Dichloropropane	ug/g	0.16	0.03		<0.03
Trichloroethylene	ug/g	0.91	0.03		<0.03
Bromodichloromethane	ug/g	18	0.05		<0.05
Methyl Isobutyl Ketone	ug/g	31	0.50		<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04		<0.04
Toluene	ug/g	68	0.05		<0.05
Dibromochloromethane	ug/g	13	0.05		<0.05
Ethylene Dibromide	ug/g	0.05	0.04		<0.04
Tetrachloroethylene	ug/g	4.5	0.05		<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.087	0.04		<0.04
Chlorobenzene	ug/g	2.4	0.05		<0.05

Certified By: R. Chakraberty

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TEL (905)712-5100
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Certificate of Analysis

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-18

DATE REPORTED: 2025-03-27

				SAMPLE DESCRIPTION:	25-02-SS4_6. 5-8.5
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-17 15:30
Parameter	Unit	G / S	RDL		6592553
Ethylbenzene	ug/g	9.5	0.05		<0.05
m & p-Xylene	ug/g		0.05		<0.05
Bromoform	ug/g	0.61	0.05		<0.05
Styrene	ug/g	34	0.05		<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05		<0.05
o-Xylene	ug/g		0.05		<0.05
1,3-Dichlorobenzene	ug/g	9.6	0.05		<0.05
1,4-Dichlorobenzene	ug/g	0.2	0.05		<0.05
1,2-Dichlorobenzene	ug/g	6.8	0.05		<0.05
Xylenes (Total)	ug/g	26	0.05		<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.18	0.05		<0.05
n-Hexane	µg/g	46	0.05		<0.05
Moisture Content	%		0.1		30.6
Surrogate	Unit	Acceptable Limits			
Toluene-d8	% Recovery	50-140			103
4-Bromofluorobenzene	% Recovery	50-140			68

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6592553 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Exceedance Summary

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6592553	25-02-SS4_6.5-8.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	2.96
6592553	25-02-SS4_6.5-8.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	98.8

Results relate only to the items tested. Results apply to samples as received.

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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Mar 27, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6590365		<0.8	<0.8	NA	< 0.8	130%	70%	130%	99%	80%	120%	100%	70%	130%
Arsenic	6590365		<1	<1	NA	< 1	109%	70%	130%	99%	80%	120%	102%	70%	130%
Barium	6590365		6.1	6.1	NA	< 2.0	103%	70%	130%	103%	80%	120%	100%	70%	130%
Beryllium	6590365		<0.5	<0.5	NA	< 0.5	94%	70%	130%	106%	80%	120%	94%	70%	130%
Boron	6590365		<5	<5	NA	< 5	84%	70%	130%	94%	80%	120%	126%	70%	130%
Boron (Hot Water Soluble)	6594524		<0.10	<0.10	NA	< 0.10	91%	60%	140%	102%	70%	130%	103%	60%	140%
Cadmium	6590365		<0.5	<0.5	NA	< 0.5	104%	70%	130%	98%	80%	120%	99%	70%	130%
Chromium	6590365		7	<5	NA	< 5	99%	70%	130%	104%	80%	120%	71%	70%	130%
Cobalt	6590365		1.1	1.0	NA	< 0.8	94%	70%	130%	101%	80%	120%	95%	70%	130%
Copper	6590365		<1.0	<1.0	NA	< 1.0	96%	70%	130%	106%	80%	120%	98%	70%	130%
Lead	6590365		<1	<1	NA	< 1	109%	70%	130%	113%	80%	120%	110%	70%	130%
Molybdenum	6590365		<0.5	<0.5	NA	< 0.5	110%	70%	130%	103%	80%	120%	103%	70%	130%
Nickel	6590365		2	2	NA	< 1	98%	70%	130%	102%	80%	120%	96%	70%	130%
Selenium	6590365		<0.8	<0.8	NA	< 0.8	94%	70%	130%	105%	80%	120%	106%	70%	130%
Silver	6590365		<0.5	<0.5	NA	< 0.5	97%	70%	130%	97%	80%	120%	127%	70%	130%
Thallium	6590365		<0.5	<0.5	NA	< 0.5	105%	70%	130%	99%	80%	120%	97%	70%	130%
Uranium	6590365		<0.50	<0.50	NA	< 0.50	106%	70%	130%	100%	80%	120%	96%	70%	130%
Vanadium	6590365		19.8	14.7	29.6%	< 2.0	109%	70%	130%	105%	80%	120%	129%	70%	130%
Zinc	6590365		5	5	NA	< 5	97%	70%	130%	99%	80%	120%	89%	70%	130%
Chromium, Hexavalent	6592553	6592553	<0.2	<0.2	NA	< 0.2	96%	70%	130%	94%	80%	120%	72%	70%	130%
Cyanide, WAD	6597546		<0.040	<0.040	NA	< 0.040	94%	70%	130%	110%	80%	120%	109%	70%	130%
Mercury	6590365		<0.10	<0.10	NA	< 0.10	102%	70%	130%	97%	80%	120%	94%	70%	130%
Electrical Conductivity (2:1)	6594524		0.153	0.143	6.8%	< 0.005	103%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6594524		0.90	0.85	5.7%	NA									
pH, 2:1 CaCl2 Extraction	6596991		7.46	7.49	0.4%	NA	99%	80%	120%						

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

Certified By:

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z259129
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis

RPT Date: Mar 27, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6595222		<0.05	<0.05	NA	< 0.05	114%	50%	140%	83%	50%	140%	73%	50%	140%
Acenaphthylene	6595222		<0.05	<0.05	NA	< 0.05	112%	50%	140%	83%	50%	140%	73%	50%	140%
Acenaphthene	6595222		<0.05	<0.05	NA	< 0.05	106%	50%	140%	75%	50%	140%	100%	50%	140%
Fluorene	6595222		<0.05	<0.05	NA	< 0.05	105%	50%	140%	73%	50%	140%	83%	50%	140%
Phenanthrene	6595222		<0.05	<0.05	NA	< 0.05	101%	50%	140%	83%	50%	140%	73%	50%	140%
Anthracene	6595222		<0.05	<0.05	NA	< 0.05	98%	50%	140%	88%	50%	140%	95%	50%	140%
Fluoranthene	6595222		<0.05	<0.05	NA	< 0.05	96%	50%	140%	88%	50%	140%	93%	50%	140%
Pyrene	6595222		<0.05	<0.05	NA	< 0.05	92%	50%	140%	93%	50%	140%	80%	50%	140%
Benzo(a)anthracene	6595222		<0.05	<0.05	NA	< 0.05	107%	50%	140%	73%	50%	140%	73%	50%	140%
Chrysene	6595222		<0.05	<0.05	NA	< 0.05	111%	50%	140%	78%	50%	140%	75%	50%	140%
Benzo(b)fluoranthene	6595222		<0.05	<0.05	NA	< 0.05	92%	50%	140%	90%	50%	140%	90%	50%	140%
Benzo(k)fluoranthene	6595222		<0.05	<0.05	NA	< 0.05	109%	50%	140%	80%	50%	140%	110%	50%	140%
Benzo(a)pyrene	6595222		<0.05	<0.05	NA	< 0.05	93%	50%	140%	83%	50%	140%	75%	50%	140%
Indeno(1,2,3-cd)pyrene	6595222		<0.05	<0.05	NA	< 0.05	80%	50%	140%	83%	50%	140%	78%	50%	140%
Dibenz(a,h)anthracene	6595222		<0.05	<0.05	NA	< 0.05	90%	50%	140%	75%	50%	140%	80%	50%	140%
Benzo(g,h,i)perylene	6595222		<0.05	<0.05	NA	< 0.05	95%	50%	140%	73%	50%	140%	75%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6595721		< 0.1	< 0.1	NA	< 0.1	103%	50%	140%	104%	50%	140%	86%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6597451		<5	<5	NA	< 5	100%	60%	140%	102%	60%	140%	90%	60%	140%
F2 (C10 to C16)	6591786		< 10	< 10	NA	< 10	103%	60%	140%	129%	60%	140%	127%	60%	140%
F3 (C16 to C34)	6591786		< 50	< 50	NA	< 50	96%	60%	140%	129%	60%	140%	127%	60%	140%
F4 (C34 to C50)	6591786		< 50	< 50	NA	< 50	86%	60%	140%	63%	60%	140%	103%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6597451		<0.05	<0.05	NA	< 0.05	93%	50%	140%	113%	50%	140%	87%	50%	140%
Vinyl Chloride	6597451		<0.02	<0.02	NA	< 0.02	65%	50%	140%	79%	50%	140%	62%	50%	140%
Bromomethane	6597451		<0.05	<0.05	NA	< 0.05	96%	50%	140%	85%	50%	140%	65%	50%	140%
Trichlorofluoromethane	6597451		<0.05	<0.05	NA	< 0.05	70%	50%	140%	72%	50%	140%	67%	50%	140%
Acetone	6597451		<0.50	<0.50	NA	< 0.50	85%	50%	140%	76%	50%	140%	77%	50%	140%
1,1-Dichloroethylene	1659745		<0.05	<0.05	NA	< 0.05	70%	50%	140%	75%	60%	130%	78%	50%	140%
Methylene Chloride	6597451		<0.05	<0.05	NA	< 0.05	63%	50%	140%	102%	60%	130%	60%	50%	140%
Trans- 1,2-Dichloroethylene	6597451		<0.05	<0.05	NA	< 0.05	77%	50%	140%	100%	60%	130%	88%	50%	140%
Methyl tert-butyl Ether	6597451		<0.05	<0.05	NA	< 0.05	54%	50%	140%	98%	60%	130%	103%	50%	140%
1,1-Dichloroethane	6597451		<0.02	<0.02	NA	< 0.02	73%	50%	140%	79%	60%	130%	100%	50%	140%
Methyl Ethyl Ketone	6597451		<0.50	<0.50	NA	< 0.50	110%	50%	140%	79%	50%	140%	94%	50%	140%
Cis- 1,2-Dichloroethylene	6597451		<0.02	<0.02	NA	< 0.02	77%	50%	140%	66%	60%	130%	106%	50%	140%
Chloroform	6597451		<0.04	<0.04	NA	< 0.04	73%	50%	140%	71%	60%	130%	70%	50%	140%
1,2-Dichloroethane	6597451		<0.03	<0.03	NA	< 0.03	64%	50%	140%	74%	60%	130%	93%	50%	140%

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z259129
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Mar 27, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,1,1-Trichloroethane	6597451		<0.05	<0.05	NA	< 0.05	115%	50%	140%	72%	60%	130%	74%	50%	140%
Carbon Tetrachloride	6597451		<0.05	<0.05	NA	< 0.05	92%	50%	140%	109%	60%	130%	76%	50%	140%
Benzene	6597451		<0.02	<0.02	NA	< 0.02	101%	50%	140%	62%	60%	130%	104%	50%	140%
1,2-Dichloropropane	6597451		<0.03	<0.03	NA	< 0.03	116%	50%	140%	117%	60%	130%	67%	50%	140%
Trichloroethylene	6597451		<0.03	<0.03	NA	< 0.03	53%	50%	140%	60%	60%	130%	66%	50%	140%
Bromodichloromethane	6597451		<0.05	<0.05	NA	< 0.05	72%	50%	140%	70%	60%	130%	66%	50%	140%
Methyl Isobutyl Ketone	6597451		<0.50	<0.50	NA	< 0.50	118%	50%	140%	102%	50%	140%	96%	50%	140%
1,1,2-Trichloroethane	6597451		<0.04	<0.04	NA	< 0.04	89%	50%	140%	96%	60%	130%	65%	50%	140%
Toluene	6597451		<0.05	<0.05	NA	< 0.05	84%	50%	140%	98%	60%	130%	70%	50%	140%
Dibromochloromethane	6597451		<0.05	<0.05	NA	< 0.05	84%	50%	140%	98%	60%	130%	76%	50%	140%
Ethylene Dibromide	6597451		<0.04	<0.04	NA	< 0.04	94%	50%	140%	113%	60%	130%	78%	50%	140%
Tetrachloroethylene	6597451		<0.05	<0.05	NA	< 0.05	90%	50%	140%	100%	60%	130%	80%	50%	140%
1,1,1,2-Tetrachloroethane	6597451		<0.04	<0.04	NA	< 0.04	117%	50%	140%	113%	60%	130%	114%	50%	140%
Chlorobenzene	6597451		<0.05	<0.05	NA	< 0.05	89%	50%	140%	100%	60%	130%	78%	50%	140%
Ethylbenzene	6597451		<0.05	<0.05	NA	< 0.05	92%	50%	140%	104%	60%	130%	66%	50%	140%
m & p-Xylene	6597451		<0.05	<0.05	NA	< 0.05	90%	50%	140%	105%	60%	130%	119%	50%	140%
Bromoform	6597451		<0.05	<0.05	NA	< 0.05	78%	50%	140%	110%	60%	130%	107%	50%	140%
Styrene	6597451		<0.05	<0.05	NA	< 0.05	92%	50%	140%	109%	60%	130%	76%	50%	140%
1,1,2,2-Tetrachloroethane	6597451		<0.05	<0.05	NA	< 0.05	66%	50%	140%	64%	60%	130%	66%	50%	140%
o-Xylene	6597451		<0.05	<0.05	NA	< 0.05	91%	50%	140%	107%	60%	130%	82%	50%	140%
1,3-Dichlorobenzene	6597451		<0.05	<0.05	NA	< 0.05	100%	50%	140%	116%	60%	130%	90%	50%	140%
1,4-Dichlorobenzene	6597451		<0.05	<0.05	NA	< 0.05	100%	50%	140%	114%	60%	130%	89%	50%	140%
1,2-Dichlorobenzene	6597451		<0.05	<0.05	NA	< 0.05	93%	50%	140%	107%	60%	130%	83%	50%	140%
n-Hexane	6597451		<0.05	<0.05	NA	< 0.05	121%	50%	140%	107%	60%	130%	64%	50%	140%

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

Certified By: R. Chakraborty

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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Method Summary

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PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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AGAT Laboratories

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259129

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Project Information:

Project: TR1363B
Site Location: 1309 Carling Ave, Ottawa, ON
Sampled By: Tristan Kennaley
AGAT Quote #: 34216608942 PO: TR1363B-6501
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other — Indicate One

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

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

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 25225919 19
Cooler Quantity: One - Bagged Ice
Arrival Temperatures: 4.3 | 4.5 | 5.0
Depot Temperatures: 6.9 | 8.0 | 8.1
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: B / I

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - CrVI, Hg, HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 558: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. 25-02-SS4_6.5-8.5	17/03/25	15:30 AM/PM	4	S			X	X	X	X	X	X								
2. 25-02-SS7_15-17	17/03/25	16:10 AM/PM	5	S	HOLD		X	X	X	X	X	X								
3. 25-02-BH9_21.5-23.5	17/03/25	16:20 AM/PM	3	S	HOLD		X	X	X	X	X	X								
4.		AM/PM																		
5.		AM/PM																		
6.		AM/PM																		
7.		AM/PM																		
8.		AM/PM																		
9.		AM/PM																		
10.		AM/PM																		
11.		AM/PM																		

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Tristan Kennaley	17/03/2025	18:00	D. Galeano	18/03/25	07:45
C to Purolator	03/18/25	15:00	T. Hann	Mar 19	9:20

Page 1 of 1

N°: T-167274

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

Document ID: DIV-78-1511.024

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Date Issued: Aug 29, 2024

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z259621

ROCK ANALYSIS REVIEWED BY: Jewel Shibu, Lab Supervisor

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Mar 28, 2025

PAGES (INCLUDING COVER): 23

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

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2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

(284-137) Sulfide (CGY)

DATE RECEIVED: 2025-03-19

DATE REPORTED: 2025-03-28

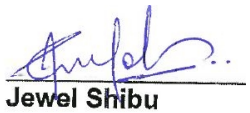
				SAMPLE DESCRIPTION:	25-01-SS4_6-8
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-18 17:35
Parameter	Unit	G / S	RDL	6595727	
Sulfide	%		0.01	0.02	

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

6595727 Sulfide is a calculated parameter and is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
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Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

Corrosivity Package

DATE RECEIVED: 2025-03-19

DATE REPORTED: 2025-03-28

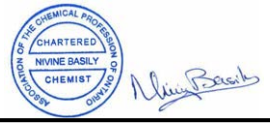
			SAMPLE DESCRIPTION:	25-01-SS4_6-8
			SAMPLE TYPE:	Soil
			DATE SAMPLED:	2025-03-18 17:35
Parameter	Unit	G / S	RDL	6595727
Chloride (2:1)	µg/g	NA	2	2120
Sulphate (2:1)	µg/g		2	72
pH (2:1)	pH Units		NA	8.19
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	4.18
Resistivity (2:1) (Calculated)	ohm.cm		1	239
Redox Potential 1	mV		NA	238
Redox Potential 2	mV		NA	265
Redox Potential 3	mV		NA	234

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6595727 EC, pH, Chloride and Sulphate were determined on the extract obtained from the 2:1 leaching procedure (2 parts DI water: 1 part soil). Resistivity is a calculated parameter.
Redox potential measured on as received sample. Due to the potential for rapid change in sample equilibrium chemistry with exposure to oxidative/reduction conditions laboratory results may differ from field measured results.
Redox potential measurement in soil is quite variable and non reproducible due in part, to the general heterogeneity of a given soil. It is also related to the introduction of increased oxygen into the sample after extraction. The interpretation of soil redox potential should be considered in terms of its general range rather than as an absolute measurement.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CANADA T2E 7P7
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FAX (403)735-2771
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Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

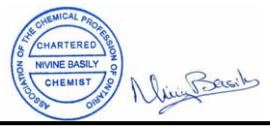
O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2025-03-19

DATE REPORTED: 2025-03-28

				SAMPLE DESCRIPTION:	25-01-SS2_2-4	25-01-SS3_4-6
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2025-03-18 17:00	2025-03-18 17:05
Parameter	Unit	G / S	RDL		6595720	6595721
Antimony	µg/g	40	0.8		<0.8	<0.8
Arsenic	µg/g	18	1		3	3
Barium	µg/g	670	2.0		111	213
Beryllium	µg/g	8	0.5		<0.5	<0.5
Boron	µg/g	120	5		8	7
Boron (Hot Water Soluble)	µg/g	2	0.10		0.24	0.23
Cadmium	µg/g	1.9	0.5		<0.5	<0.5
Chromium	µg/g	160	5		38	72
Cobalt	µg/g	80	0.8		9.1	14.4
Copper	µg/g	230	1.0		23.5	33.8
Lead	µg/g	120	1		8	8
Molybdenum	µg/g	40	0.5		1.9	2.0
Nickel	µg/g	270	1		26	41
Selenium	µg/g	5.5	0.8		<0.8	<0.8
Silver	µg/g	40	0.5		<0.5	<0.5
Thallium	µg/g	3.3	0.5		<0.5	<0.5
Uranium	µg/g	33	0.50		0.64	0.75
Vanadium	µg/g	86	2.0		41.1	63.7
Zinc	µg/g	340	5		47	69
Chromium, Hexavalent	µg/g	8	0.2		<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040		<0.040	<0.040
Mercury	µg/g	3.9	0.10		<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005		1.35	4.43
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A		20	29
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA		7.26	7.33

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-19

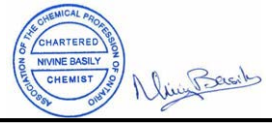
DATE REPORTED: 2025-03-28

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6595720-6595721 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
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Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-19

DATE REPORTED: 2025-03-28

				SAMPLE DESCRIPTION:	25-01-SS2_2-4	25-01-SS3_4-6
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2025-03-18 17:00	2025-03-18 17:05
Parameter	Unit	G / S	RDL		6595720	6595721
Naphthalene	µg/g	9.6	0.05		<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05		<0.05	<0.05
Acenaphthene	µg/g	96	0.05		<0.05	<0.05
Fluorene	µg/g	62	0.05		<0.05	<0.05
Phenanthrene	µg/g	12	0.05		<0.05	<0.05
Anthracene	µg/g	0.67	0.05		<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05		<0.05	<0.05
Pyrene	µg/g	96	0.05		<0.05	<0.05
Benzo(a)anthracene	µg/g	0.96	0.05		<0.05	<0.05
Chrysene	µg/g	9.6	0.05		<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05		<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05		<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05		<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05		<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05		<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05		<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05		<0.05	<0.05
Moisture Content	%		0.1		31.8	33.0
Surrogate	Unit	Acceptable Limits				
Naphthalene-d8	%	50-140			70	75
Acridine-d9	%	50-140			85	90
Terphenyl-d14	%	50-140			85	75

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6595720-6595721 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
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Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-19

DATE REPORTED: 2025-03-28

				SAMPLE DESCRIPTION:	25-01-SS2_2-4	25-01-SS3_4-6
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2025-03-18 17:00	2025-03-18 17:05
Parameter	Unit	G / S	RDL		6595720	6595721
Polychlorinated Biphenyls	µg/g	1.1	0.1		<0.1	<0.1
Moisture Content	%		0.1		31.8	33.0
Surrogate	Unit	Acceptable Limits				
Decachlorobiphenyl	%	50-140			84	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6595720-6595721 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
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Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-19

DATE REPORTED: 2025-03-28

				SAMPLE DESCRIPTION:	25-01-SS2_2-4	25-01-SS3_4-6
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2025-03-18 17:00	2025-03-18 17:05
Parameter	Unit	G / S	RDL		6595720	6595721
F1 (C6 to C10)	µg/g	55	5		<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5		<5	<5
F2 (C10 to C16)	µg/g	230	10		<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		<10	<10
F3 (C16 to C34)	µg/g	1700	50		<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50		<50	<50
F4 (C34 to C50)	µg/g	3300	50		<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	3300	50		NA	NA
Moisture Content	%		0.1		31.8	33.0
Surrogate	Unit	Acceptable Limits				
Toluene-d8	%	50-140			102	108
Terphenyl	%	60-140			94	88

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6595720-6595721 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

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Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-19

DATE REPORTED: 2025-03-28

				SAMPLE DESCRIPTION:	25-01-SS2_2-4	25-01-SS3_4-6
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2025-03-18 17:00	2025-03-18 17:05
Parameter	Unit	G / S	RDL		6595720	6595721
Dichlorodifluoromethane	µg/g	16	0.05		<0.05	<0.05
Vinyl Chloride	ug/g	0.032	0.02		<0.02	<0.02
Bromomethane	ug/g	0.05	0.05		<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05		<0.05	<0.05
Acetone	ug/g	16	0.50		<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.064	0.05		<0.05	<0.05
Methylene Chloride	ug/g	1.6	0.05		<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	1.3	0.05		<0.05	<0.05
Methyl tert-butyl Ether	ug/g	11	0.05		<0.05	<0.05
1,1-Dichloroethane	ug/g	17	0.02		<0.02	<0.02
Methyl Ethyl Ketone	ug/g	70	0.50		<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	55	0.02		<0.02	<0.02
Chloroform	ug/g	0.47	0.04		<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03		<0.03	<0.03
1,1,1-Trichloroethane	ug/g	6.1	0.05		<0.05	<0.05
Carbon Tetrachloride	ug/g	0.21	0.05		<0.05	<0.05
Benzene	ug/g	0.32	0.02		<0.02	<0.02
1,2-Dichloropropane	ug/g	0.16	0.03		<0.03	<0.03
Trichloroethylene	ug/g	0.91	0.03		<0.03	<0.03
Bromodichloromethane	ug/g	18	0.05		<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	31	0.50		<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04		<0.04	<0.04
Toluene	ug/g	68	0.05		<0.05	<0.05
Dibromochloromethane	ug/g	13	0.05		<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04		<0.04	<0.04
Tetrachloroethylene	ug/g	4.5	0.05		<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.087	0.04		<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05		<0.05	<0.05
Ethylbenzene	ug/g	9.5	0.05		<0.05	<0.05

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Certificate of Analysis

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-19

DATE REPORTED: 2025-03-28

				SAMPLE DESCRIPTION:	25-01-SS2_2-4	25-01-SS3_4-6
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2025-03-18 17:00	2025-03-18 17:05
Parameter	Unit	G / S	RDL		6595720	6595721
m & p-Xylene	ug/g		0.05		<0.05	<0.05
Bromoform	ug/g	0.61	0.05		<0.05	<0.05
Styrene	ug/g	34	0.05		<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05		<0.05	<0.05
o-Xylene	ug/g		0.05		<0.05	<0.05
1,3-Dichlorobenzene	ug/g	9.6	0.05		<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.2	0.05		<0.05	<0.05
1,2-Dichlorobenzene	ug/g	6.8	0.05		<0.05	<0.05
Xylenes (Total)	ug/g	26	0.05		<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.18	0.05		<0.05	<0.05
n-Hexane	µg/g	46	0.05		<0.05	<0.05
Moisture Content	%		0.1		31.8	33.0
Surrogate	Unit	Acceptable Limits				
Toluene-d8	% Recovery	50-140			102	108
4-Bromofluorobenzene	% Recovery	50-140			107	99

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6595720-6595721 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
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Exceedance Summary

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6595720	25-01-SS2_2-4	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	20
6595721	25-01-SS3_4-6	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	4.43
6595721	25-01-SS3_4-6	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	29
6595727	25-01-SS4_6-8	ON T3 S ICC CT	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	1.4	4.18

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CANADA T2E 7P7
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FAX (403)735-2771
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

Rock Analysis

RPT Date: Mar 28, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
(284-137) Sulfide (CGY)															
Total Sulfur	6595727	6595727	0.03	0.03	1.4%	< 0.01	100%	80%	120%						
Sulfate	6595727	6595727	0.01	0.01	1.2%	< 0.01	100%	80%	120%						

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.
Duplicate/ Replicate NA: Results are less than 10X the RDL and RPD will not be calculated

Certified By:

Jewel Shibu

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2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z259621
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Mar 28, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6601294		<0.8	<0.8	NA	< 0.8	140%	70%	130%	99%	80%	120%	74%	70%	130%
Arsenic	6601294		2	2	NA	< 1	105%	70%	130%	101%	80%	120%	102%	70%	130%
Barium	6601294		51.0	48.9	4.2%	< 2.0	104%	70%	130%	115%	80%	120%	126%	70%	130%
Beryllium	6601294		<0.5	<0.5	NA	< 0.5	88%	70%	130%	110%	80%	120%	109%	70%	130%
Boron	6601294		5	<5	NA	< 5	76%	70%	130%	101%	80%	120%	92%	70%	130%
Boron (Hot Water Soluble)	6590995		1.06	1.09	2.8%	< 0.10	107%	60%	140%	105%	70%	130%	108%	60%	140%
Cadmium	6601294		<0.5	<0.5	NA	< 0.5	108%	70%	130%	114%	80%	120%	119%	70%	130%
Chromium	6601294		15	15	NA	< 5	101%	70%	130%	104%	80%	120%	118%	70%	130%
Cobalt	6601294		4.6	4.8	4.3%	< 0.8	95%	70%	130%	100%	80%	120%	119%	70%	130%
Copper	6601294		7.6	7.8	2.6%	< 1.0	93%	70%	130%	118%	80%	120%	113%	70%	130%
Lead	6601294		7	7	0.0%	< 1	102%	70%	130%	108%	80%	120%	125%	70%	130%
Molybdenum	6601294		<0.5	0.8	NA	< 0.5	111%	70%	130%	103%	80%	120%	126%	70%	130%
Nickel	6601294		9	9	0.0%	< 1	97%	70%	130%	116%	80%	120%	111%	70%	130%
Selenium	6601294		<0.8	<0.8	NA	< 0.8	107%	70%	130%	114%	80%	120%	118%	70%	130%
Silver	6601294		<0.5	<0.5	NA	< 0.5	124%	70%	130%	116%	80%	120%	114%	70%	130%
Thallium	6601294		<0.5	<0.5	NA	< 0.5	104%	70%	130%	111%	80%	120%	112%	70%	130%
Uranium	6601294		0.57	0.54	NA	< 0.50	98%	70%	130%	114%	80%	120%	111%	70%	130%
Vanadium	6601294		26.6	27.5	3.3%	< 2.0	104%	70%	130%	119%	80%	120%	116%	70%	130%
Zinc	6601294		29	30	3.4%	< 5	97%	70%	130%	113%	80%	120%	108%	70%	130%
Chromium, Hexavalent	6608270		<0.2	<0.2	NA	< 0.2	102%	70%	130%	90%	80%	120%	70%	70%	130%
Cyanide, WAD	6597521		<0.040	<0.040	NA	< 0.040	104%	70%	130%	103%	80%	120%	108%	70%	130%
Mercury	6601294		<0.10	<0.10	NA	< 0.10	100%	70%	130%	97%	80%	120%	110%	70%	130%
Electrical Conductivity (2:1)	6595727	6595727	4.18	4.60	9.6%	< 0.005	99%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6597441		1.8	1.8	0.0%	NA									
pH, 2:1 CaCl2 Extraction	6592583		6.06	6.35	4.7%	NA	100%	80%	120%						

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Corrosivity Package															
Chloride (2:1)	6588930		16	17	6.1%	< 2	94%	70%	130%	97%	80%	120%	97%	70%	130%
Sulphate (2:1)	6588930		49	50	2.0%	< 2	99%	70%	130%	99%	80%	120%	104%	70%	130%
pH (2:1)	6595727	6595727	8.19	7.71	6.0%	NA	97%	80%	120%						
Electrical Conductivity (2:1)	6595727	6595727	4.18	4.60	9.6%	< 0.005	99%	80%	120%						
Redox Potential 1	6595727						100%	90%	110%						

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Results relate only to the items tested. Results apply to samples as received.

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CALGARY, ALBERTA
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

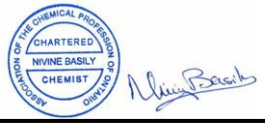
Soil Analysis (Continued)

RPT Date: Mar 28, 2025			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

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

Certified By:



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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z259621
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis

RPT Date: Mar 28, 2025

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6596234		<0.05	<0.05	NA	< 0.05	112%	50%	140%	78%	50%	140%	83%	50%	140%
Acenaphthylene	6596234		<0.05	<0.05	NA	< 0.05	112%	50%	140%	73%	50%	140%	73%	50%	140%
Acenaphthene	6596234		<0.05	<0.05	NA	< 0.05	105%	50%	140%	80%	50%	140%	75%	50%	140%
Fluorene	6596234		<0.05	<0.05	NA	< 0.05	108%	50%	140%	83%	50%	140%	73%	50%	140%
Phenanthrene	6596234		<0.05	<0.05	NA	< 0.05	101%	50%	140%	88%	50%	140%	83%	50%	140%
Anthracene	6596234		<0.05	<0.05	NA	< 0.05	96%	50%	140%	73%	50%	140%	95%	50%	140%
Fluoranthene	6596234		<0.05	<0.05	NA	< 0.05	96%	50%	140%	80%	50%	140%	100%	50%	140%
Pyrene	6596234		<0.05	<0.05	NA	< 0.05	93%	50%	140%	93%	50%	140%	100%	50%	140%
Benzo(a)anthracene	6596234		<0.05	<0.05	NA	< 0.05	94%	50%	140%	73%	50%	140%	75%	50%	140%
Chrysene	6596234		<0.05	<0.05	NA	< 0.05	108%	50%	140%	78%	50%	140%	75%	50%	140%
Benzo(b)fluoranthene	6596234		<0.05	<0.05	NA	< 0.05	101%	50%	140%	90%	50%	140%	103%	50%	140%
Benzo(k)fluoranthene	6596234		<0.05	<0.05	NA	< 0.05	106%	50%	140%	75%	50%	140%	75%	50%	140%
Benzo(a)pyrene	6596234		<0.05	<0.05	NA	< 0.05	94%	50%	140%	80%	50%	140%	95%	50%	140%
Indeno(1,2,3-cd)pyrene	6596234		<0.05	<0.05	NA	< 0.05	81%	50%	140%	93%	50%	140%	88%	50%	140%
Dibenz(a,h)anthracene	6596234		<0.05	<0.05	NA	< 0.05	83%	50%	140%	73%	50%	140%	78%	50%	140%
Benzo(g,h,i)perylene	6596234		<0.05	<0.05	NA	< 0.05	106%	50%	140%	85%	50%	140%	80%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6595721	6595721	< 0.1	< 0.1	NA	< 0.1	103%	50%	140%	104%	50%	140%	86%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6597467		<5	<5	NA	< 5	94%	60%	140%	120%	60%	140%	100%	60%	140%
F2 (C10 to C16)	6596458		< 10	< 10	NA	< 10	105%	60%	140%	129%	60%	140%	126%	60%	140%
F3 (C16 to C34)	6596458		< 50	< 50	NA	< 50	101%	60%	140%	129%	60%	140%	128%	60%	140%
F4 (C34 to C50)	6596458		< 50	< 50	NA	< 50	95%	60%	140%	86%	60%	140%	121%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Bromomethane	6597467		<0.05	<0.05	NA	< 0.05	80%	50%	140%	88%	50%	140%	122%	50%	140%
Trichlorofluoromethane	6597467		<0.05	<0.05	NA	< 0.05	111%	50%	140%	97%	50%	140%	85%	50%	140%
Acetone	6597467		<0.50	<0.50	NA	< 0.50	115%	50%	140%	111%	50%	140%	108%	50%	140%
Methylene Chloride	6597467		<0.05	<0.05	NA	< 0.05	100%	50%	140%	119%	60%	130%	113%	50%	140%
Trans- 1,2-Dichloroethylene	6597467		<0.05	<0.05	NA	< 0.05	92%	50%	140%	82%	60%	130%	72%	50%	140%
Methyl tert-butyl Ether	6597467		<0.05	<0.05	NA	< 0.05	100%	50%	140%	91%	60%	130%	96%	50%	140%
1,1-Dichloroethane	6597467		<0.02	<0.02	NA	< 0.02	103%	50%	140%	86%	60%	130%	77%	50%	140%
Methyl Ethyl Ketone	6597467		<0.50	<0.50	NA	< 0.50	89%	50%	140%	85%	50%	140%	106%	50%	140%
Cis- 1,2-Dichloroethylene	6597467		<0.02	<0.02	NA	< 0.02	90%	50%	140%	89%	60%	130%	74%	50%	140%
Chloroform	6597467		<0.04	<0.04	NA	< 0.04	105%	50%	140%	89%	60%	130%	81%	50%	140%
1,2-Dichloroethane	6597467		<0.03	<0.03	NA	< 0.03	114%	50%	140%	104%	60%	130%	104%	50%	140%
1,1,1-Trichloroethane	6597467		<0.05	<0.05	NA	< 0.05	108%	50%	140%	71%	60%	130%	96%	50%	140%
Carbon Tetrachloride	6597467		<0.05	<0.05	NA	< 0.05	108%	50%	140%	83%	60%	130%	111%	50%	140%
Benzene	6597467		<0.02	<0.02	NA	< 0.02	102%	50%	140%	86%	60%	130%	76%	50%	140%

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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z259621
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Mar 28, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,2-Dichloropropane	6597467		<0.03	<0.03	NA	< 0.03	102%	50%	140%	86%	60%	130%	78%	50%	140%
Trichloroethylene	6597467		<0.03	<0.03	NA	< 0.03	102%	50%	140%	85%	60%	130%	77%	50%	140%
Bromodichloromethane	6597467		<0.05	<0.05	NA	< 0.05	109%	50%	140%	76%	60%	130%	95%	50%	140%
Methyl Isobutyl Ketone	6597467		<0.50	<0.50	NA	< 0.50	97%	50%	140%	89%	50%	140%	84%	50%	140%
1,1,2-Trichloroethane	6597467		<0.04	<0.04	NA	< 0.04	110%	50%	140%	97%	60%	130%	87%	50%	140%
Toluene	6597467		<0.05	<0.05	NA	< 0.05	109%	50%	140%	93%	60%	130%	77%	50%	140%
Dibromochloromethane	6597467		<0.05	<0.05	NA	< 0.05	103%	50%	140%	67%	60%	130%	113%	50%	140%
Ethylene Dibromide	6597467		<0.04	<0.04	NA	< 0.04	114%	50%	140%	83%	60%	130%	93%	50%	140%
Tetrachloroethylene	6597467		<0.05	<0.05	NA	< 0.05	99%	50%	140%	91%	60%	130%	74%	50%	140%
1,1,1,2-Tetrachloroethane	6597467		<0.04	<0.04	NA	< 0.04	89%	50%	140%	61%	60%	130%	85%	50%	140%
Chlorobenzene	6597467		<0.05	<0.05	NA	< 0.05	107%	50%	140%	87%	60%	130%	73%	50%	140%
Ethylbenzene	6597467		<0.05	<0.05	NA	< 0.05	102%	50%	140%	87%	60%	130%	71%	50%	140%
m & p-Xylene	6597467		<0.05	<0.05	NA	< 0.05	101%	50%	140%	87%	60%	130%	113%	50%	140%
Bromoform	6597467		<0.05	<0.05	NA	< 0.05	105%	50%	140%	85%	60%	130%	115%	50%	140%
Styrene	6597467		<0.05	<0.05	NA	< 0.05	100%	50%	140%	83%	60%	130%	78%	50%	140%
1,1,2,2-Tetrachloroethane	6597467		<0.05	<0.05	NA	< 0.05	109%	50%	140%	88%	60%	130%	71%	50%	140%
o-Xylene	6597467		<0.05	<0.05	NA	< 0.05	106%	50%	140%	89%	60%	130%	76%	50%	140%
1,3-Dichlorobenzene	6597467		<0.05	<0.05	NA	< 0.05	104%	50%	140%	83%	60%	130%	85%	50%	140%
1,4-Dichlorobenzene	6597467		<0.05	<0.05	NA	< 0.05	106%	50%	140%	82%	60%	130%	86%	50%	140%
1,2-Dichlorobenzene	6597467		<0.05	<0.05	NA	< 0.05	111%	50%	140%	82%	60%	130%	91%	50%	140%
n-Hexane	6597467		<0.05	<0.05	NA	< 0.05	69%	50%	140%	98%	60%	130%	79%	50%	140%

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

Certified By: R. Chakraborty

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QC Exceedance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

RPT Date: Mar 28, 2025

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)										
Antimony		140%	70%	130%	99%	80%	120%	74%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Chloride (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Sulphate (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH (2:1)	INOR 93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Resistivity (2:1) (Calculated)	INOR-93-6036	McKeague 4.12, SM 2510 B,SSA #5 Part 3	CALCULATION
Redox Potential 1	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 2	INOR-93-6066	ASTM G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 3	INOR-93-6066	ASTM G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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PROJECT: TR1363B

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z259621

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 25225621

Cooler Quantity: One - Bagged Ice
Arrival Temperatures: 4.3 | 4.9 | 5.0
Depot Temperatures: 6.6 | 8.2 | 5.9
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: B I

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph, ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: KevinKim@Geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other — Indicate One

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

Project: TR13633
Site Location: 809 Carling Ave, Ottawa ON
Sampled By: Tristan Kennaley
AGAT Quote #: 34216608942 PO: TR13633B-6501

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

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

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

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Legal Sample ☐

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☒ CrVI, ☒ Hg, ☒ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☒ Moisture ☒ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. 25-01-SS2_2-4	18/03/25	17:00 AM	3	S			X	X	X	X	X								
2. 25-01-SS3_4-6	18/03/25	17:05 AM	5	S			X	X	X	X	X								
3. 25-01-SS4_6-8	18/03/25	17:35 AM	1	S	[redacted] TK												X		
4. 25-01-SS10_25-27	18/03/25	17:15 AM	5	S	HOLD		X	X	X	X	X								
5.		AM PM																	
6.		AM PM																	
7.		AM PM																	
8.		AM PM																	
9.		AM PM																	
10.		AM PM																	
11.		AM PM																	

Samples Relinquished By (Print Name and Sign): Tristan Kennaley	Date: 18/03/25	Time: 18:30	Samples Received By (Print Name and Sign): D. Galeano JDG	Date: 19/03/25	Time: 02:42
Samples Relinquished By (Print Name and Sign): C. to Depot	Date: 03/19/25	Time: 15h00	Samples Received By (Print Name and Sign): T. Tam	Date: 19 Mar 20	Time: 9 AM
Samples Relinquished By (Print Name and Sign):	Date:	Time:	Samples Received (By (Print Name and Sign):	Date:	Time:

Page 1 of 1

N°: T - 167275

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

Document ID: DIV-78-1511.024

Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document.

Date Issued: Aug 29, 2024

AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z260479

SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Mar 31, 2025

PAGES (INCLUDING COVER): 18

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

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

Certificate of Analysis

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

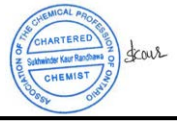
O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2025-03-21

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-06-SS1_0-2	25-06-SS2_2.5-4.5	25-09-SS1_0-2	25-09-SS2_2.5-4.5	25-09-SS4_7.5-9.5	25-10-SS1_2.5-4.5	DUP02	DUP04
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-20 15:45	2025-03-20 15:30	2025-03-20 16:00	2025-03-20 16:25	2025-03-20 16:10	2025-03-20 16:45	2025-03-20 12:02	2025-03-20 12:04
Parameter	Unit	G / S	RDL	6602064	6602065	6602066	6602067	6602068	6602071	6602072	6602074
Antimony	µg/g	40	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	1	2	4	3	2	2	3	2
Barium	µg/g	670	2.0	43.5	319	182	256	374	232	253	259
Beryllium	µg/g	8	0.5	<0.5	0.7	0.5	0.5	0.7	0.6	0.5	0.6
Boron	µg/g	120	5	6	7	9	8	6	<5	8	<5
Boron (Hot Water Soluble)	µg/g	2	0.10	0.50	0.28	0.33	0.40	0.38	0.22	0.38	0.19
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	13	93	43	61	104	91	62	97
Cobalt	µg/g	80	0.8	3.1	17.9	11.0	13.6	21.2	17.0	13.7	18.8
Copper	µg/g	230	1.0	9.3	38.7	27.3	28.8	42.2	28.2	28.2	32.0
Lead	µg/g	120	1	5	8	15	17	9	7	17	7
Molybdenum	µg/g	40	0.5	2.8	0.9	4.5	4.4	1.4	<0.5	3.2	<0.5
Nickel	µg/g	270	1	15	48	32	35	52	42	35	47
Selenium	µg/g	5.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	40	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	3.3	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	33	0.50	<0.50	0.75	0.90	1.00	1.30	0.76	0.92	0.84
Vanadium	µg/g	86	2.0	24.8	92.0	42.1	62.2	105	80.6	62.2	81.9
Zinc	µg/g	340	5	21	102	51	73	111	75	73	81
Chromium, Hexavalent	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	3.9	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	2.21	8.96	2.04	3.14	1.69	0.769	2.92	0.893
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	19	95	33	24	6.0	5.4	21	6.7
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.99	7.37	7.21	7.16	7.09	7.14	7.15	6.94

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-21

DATE REPORTED: 2025-03-31

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6602064-6602074 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Certificate of Analysis

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-21

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-06-SS1_0-2	25-06-SS2_2.5-4.5	25-09-SS1_0-2	25-09-SS2_2.5-4.5	25-09-SS4_7.5-9.5	25-10-SS1_2.5-4.5	DUP02	DUP04
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-20 15:45	2025-03-20 15:30	2025-03-20 16:00	2025-03-20 16:25	2025-03-20 16:10	2025-03-20 16:45	2025-03-20 12:02	2025-03-20 12:04
Parameter	Unit	G / S	RDL	6602064	6602065	6602066	6602067	6602068	6602071	6602072	6602074
Naphthalene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits									
Naphthalene-d8	%	50-140		98	70	75	70	80	70	75	70
Acridine-d9	%	50-140		95	110	110	70	80	95	80	85
Terphenyl-d14	%	50-140		75	70	105	90	80	90	95	105

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6602064-6602074 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-21

DATE REPORTED: 2025-03-31

				SAMPLE DESCRIPTION:	25-06-SS1_0-2
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-20 15:45
Parameter	Unit	G / S	RDL	6602064	
Polychlorinated Biphenyls	µg/g		0.1	<0.1	
Surrogate	Unit	Acceptable Limits			
Decachlorobiphenyl	%	50-140		88	

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

6602064 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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Certificate of Analysis

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-21

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-06-SS1_0-2	25-06-SS2_2.5-4.5	25-09-SS1_0-2	25-09-SS2_2.5-4.5	25-09-SS4_7.5-9.5	25-10-SS1_2.5-4.5	DUP02	DUP04
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-20 15:45	2025-03-20 15:30	2025-03-20 16:00	2025-03-20 16:25	2025-03-20 16:10	2025-03-20 16:45	2025-03-20 12:02	2025-03-20 12:04
Parameter	Unit	G / S	RDL	6602064	6602065	6602066	6602067	6602068	6602071	6602072	6602074
F1 (C6 to C10)	µg/g	55	5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	230	10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1700	50	1690	89	<50	414	350	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	1690	89	<50	414	350	<50	<50	<50
F4 (C34 to C50)	µg/g	3300	50	1770	126	100	442	496	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	3300	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	2.6	25.8	13.4	23.8	29.5	27.4	23.1	30.0
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-140		89	107	115	102	110	138	113	99
Terphenyl	%	60-140		97	100	96	92	96	96	110	79

Certified By: R. Chakraberty

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

Certificate of Analysis

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-21

DATE REPORTED: 2025-03-31

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6602064-6602074 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-21

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-06-SS1_0-2	25-06-SS2_2.5-4.5	25-09-SS1_0-2	25-09-SS2_2.5-4.5	25-09-SS4_7.5-9.5	25-10-SS1_2.5-4.5	DUP02	DUP04
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-20 15:45	2025-03-20 15:30	2025-03-20 16:00	2025-03-20 16:25	2025-03-20 16:10	2025-03-20 16:45	2025-03-20 12:02	2025-03-20 12:04
Parameter	Unit	G / S	RDL	6602064	6602065	6602066	6602067	6602068	6602071	6602072	6602074
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.032	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.064	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	1.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	70	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	55	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.47	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	6.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.21	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.32	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.16	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.91	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	31	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	68	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	4.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.087	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: R. Chakraberty

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Certificate of Analysis

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-21

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-06-SS1_0-2	25-06-SS2_2.5-4.5	25-09-SS1_0-2	25-09-SS2_2.5-4.5	25-09-SS4_7.5-9.5	25-10-SS1_2.5-4.5	DUP02	DUP04
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-20 15:45	2025-03-20 15:30	2025-03-20 16:00	2025-03-20 16:25	2025-03-20 16:10	2025-03-20 16:45	2025-03-20 12:02	2025-03-20 12:04
Parameter	Unit	G / S	RDL	6602064	6602065	6602066	6602067	6602068	6602071	6602072	6602074
Ethylbenzene	ug/g	9.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.61	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	6.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.18	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	46	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	50-140		89	107	115	102	110	138	113	99
4-Bromofluorobenzene	% Recovery	50-140		88	78	80	78	80	79	80	77

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6602064-6602074 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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

Exceedance Summary

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6602064	25-06-SS1_0-2	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	2.21
6602064	25-06-SS1_0-2	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	19
6602065	25-06-SS2_2.5-4.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	8.96
6602065	25-06-SS2_2.5-4.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	95
6602065	25-06-SS2_2.5-4.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	92.0
6602066	25-09-SS1_0-2	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	2.04
6602066	25-09-SS1_0-2	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	33
6602067	25-09-SS2_2.5-4.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	3.14
6602067	25-09-SS2_2.5-4.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	24
6602068	25-09-SS4_7.5-9.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	1.69
6602068	25-09-SS4_7.5-9.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	105
6602072	DUP02	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	2.92
6602072	DUP02	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	21

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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z260479
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa ON
SAMPLED BY:Tristan Kennaley

Soil Analysis

RPT Date: Mar 31, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6602064	6602064	<0.8	<0.8	NA	< 0.8	128%	70%	130%	102%	80%	120%	71%	70%	130%
Arsenic	6602064	6602064	1	1	NA	< 1	106%	70%	130%	104%	80%	120%	127%	70%	130%
Barium	6602064	6602064	43.5	49.9	13.7%	< 2.0	105%	70%	130%	105%	80%	120%	128%	70%	130%
Beryllium	6602064	6602064	<0.5	<0.5	NA	< 0.5	85%	70%	130%	100%	80%	120%	123%	70%	130%
Boron	6602064	6602064	6	7	NA	< 5	83%	70%	130%	81%	80%	120%	106%	70%	130%
Boron (Hot Water Soluble)	6602064	6602064	0.50	0.44	NA	< 0.10	110%	60%	140%	102%	70%	130%	112%	60%	140%
Cadmium	6602064	6602064	<0.5	<0.5	NA	< 0.5	107%	70%	130%	99%	80%	120%	109%	70%	130%
Chromium	6602064	6602064	13	14	NA	< 5	104%	70%	130%	104%	80%	120%	110%	70%	130%
Cobalt	6602064	6602064	3.1	3.5	NA	< 0.8	94%	70%	130%	104%	80%	120%	102%	70%	130%
Copper	6602064	6602064	9.3	10.4	11.2%	< 1.0	94%	70%	130%	108%	80%	120%	99%	70%	130%
Lead	6602064	6602064	5	6	18.2%	< 1	108%	70%	130%	114%	80%	120%	97%	70%	130%
Molybdenum	6602064	6602064	2.8	3.1	10.2%	< 0.5	105%	70%	130%	95%	80%	120%	110%	70%	130%
Nickel	6602064	6602064	15	16	6.5%	< 1	94%	70%	130%	97%	80%	120%	96%	70%	130%
Selenium	6602064	6602064	<0.8	<0.8	NA	< 0.8	94%	70%	130%	106%	80%	120%	96%	70%	130%
Silver	6602064	6602064	<0.5	<0.5	NA	< 0.5	98%	70%	130%	92%	80%	120%	100%	70%	130%
Thallium	6602064	6602064	<0.5	<0.5	NA	< 0.5	103%	70%	130%	97%	80%	120%	99%	70%	130%
Uranium	6602064	6602064	<0.50	<0.50	NA	< 0.50	105%	70%	130%	97%	80%	120%	105%	70%	130%
Vanadium	6602064	6602064	24.8	26.6	7.0%	< 2.0	100%	70%	130%	96%	80%	120%	107%	70%	130%
Zinc	6602064	6602064	21	21	NA	< 5	100%	70%	130%	101%	80%	120%	98%	70%	130%
Chromium, Hexavalent	6609051		<0.2	<0.2	NA	< 0.2	96%	70%	130%	94%	80%	120%	93%	70%	130%
Cyanide, WAD	6598907		<0.040	<0.040	NA	< 0.040	101%	70%	130%	103%	80%	120%	102%	70%	130%
Mercury	6602064	6602064	<0.10	<0.10	NA	< 0.10	122%	70%	130%	117%	80%	120%	116%	70%	130%
Electrical Conductivity (2:1)	6595702		0.079	0.069	13.5%	< 0.005	94%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6607398		2.6	2.5	3.9%	NA	NA								
pH, 2:1 CaCl2 Extraction	6601811		6.97	7.09	1.7%	NA	97%	80%	120%						

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

Certified By:

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

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MISSISSAUGA, ONTARIO
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Quality Assurance

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AGAT WORK ORDER: 25Z260479
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis

RPT Date: Mar 31, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6599553		<5	<5	NA	< 5	125%	60%	140%	113%	60%	140%	86%	60%	140%
F2 (C10 to C16)	6606806		11	14	NA	< 10	107%	60%	140%	71%	60%	140%	128%	60%	140%
F3 (C16 to C34)	6606806		60	74	NA	< 50	100%	60%	140%	77%	60%	140%	129%	60%	140%
F4 (C34 to C50)	6606806		< 50	< 50	NA	< 50	94%	60%	140%	69%	60%	140%	102%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6606794		<0.05	<0.05	NA	< 0.05	115%	50%	140%	100%	50%	140%	75%	50%	140%
Acenaphthylene	6606794		<0.05	<0.05	NA	< 0.05	112%	50%	140%	78%	50%	140%	75%	50%	140%
Acenaphthene	6606794		<0.05	<0.05	NA	< 0.05	105%	50%	140%	83%	50%	140%	73%	50%	140%
Fluorene	6606794		<0.05	<0.05	NA	< 0.05	105%	50%	140%	78%	50%	140%	73%	50%	140%
Phenanthrene	6606794		<0.05	<0.05	NA	< 0.05	100%	50%	140%	75%	50%	140%	78%	50%	140%
Anthracene	6606794		<0.05	<0.05	NA	< 0.05	94%	50%	140%	83%	50%	140%	83%	50%	140%
Fluoranthene	6606794		<0.05	<0.05	NA	< 0.05	97%	50%	140%	83%	50%	140%	93%	50%	140%
Pyrene	6606794		<0.05	<0.05	NA	< 0.05	91%	50%	140%	75%	50%	140%	80%	50%	140%
Benzo(a)anthracene	6606794		<0.05	<0.05	NA	< 0.05	70%	50%	140%	90%	50%	140%	75%	50%	140%
Chrysene	6606794		<0.05	<0.05	NA	< 0.05	111%	50%	140%	90%	50%	140%	78%	50%	140%
Benzo(b)fluoranthene	6606794		<0.05	<0.05	NA	< 0.05	115%	50%	140%	95%	50%	140%	83%	50%	140%
Benzo(k)fluoranthene	6606794		<0.05	<0.05	NA	< 0.05	114%	50%	140%	85%	50%	140%	83%	50%	140%
Benzo(a)pyrene	6606794		<0.05	<0.05	NA	< 0.05	79%	50%	140%	108%	50%	140%	93%	50%	140%
Indeno(1,2,3-cd)pyrene	6606794		<0.05	<0.05	NA	< 0.05	102%	50%	140%	78%	50%	140%	88%	50%	140%
Dibenz(a,h)anthracene	6606794		<0.05	<0.05	NA	< 0.05	71%	50%	140%	83%	50%	140%	73%	50%	140%
Benzo(g,h,i)perylene	6606794		<0.05	<0.05	NA	< 0.05	81%	50%	140%	93%	50%	140%	73%	50%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6599553		<0.05	<0.05	NA	< 0.05	116%	50%	140%	85%	50%	140%	93%	50%	140%
Vinyl Chloride	6599553		<0.02	<0.02	NA	< 0.02	110%	50%	140%	72%	50%	140%	94%	50%	140%
Bromomethane	6599553		<0.05	<0.05	NA	< 0.05	85%	50%	140%	61%	50%	140%	100%	50%	140%
Trichlorofluoromethane	6599553		<0.05	<0.05	NA	< 0.05	58%	50%	140%	83%	50%	140%	115%	50%	140%
Acetone	6599553		<0.50	<0.50	NA	< 0.50	110%	50%	140%	107%	50%	140%	91%	50%	140%
1,1-Dichloroethylene	6599553		<0.05	<0.05	NA	< 0.05	100%	50%	140%	95%	60%	130%	90%	50%	140%
Methylene Chloride	6599553		<0.05	<0.05	NA	< 0.05	79%	50%	140%	71%	60%	130%	73%	50%	140%
Trans- 1,2-Dichloroethylene	6599553		<0.05	<0.05	NA	< 0.05	108%	50%	140%	93%	60%	130%	111%	50%	140%
Methyl tert-butyl Ether	6599553		<0.05	<0.05	NA	< 0.05	110%	50%	140%	105%	60%	130%	79%	50%	140%
1,1-Dichloroethane	6599553		<0.02	<0.02	NA	< 0.02	72%	50%	140%	81%	60%	130%	62%	50%	140%
Methyl Ethyl Ketone	6599553		<0.50	<0.50	NA	< 0.50	79%	50%	140%	77%	50%	140%	79%	50%	140%
Cis- 1,2-Dichloroethylene	6599553		<0.02	<0.02	NA	< 0.02	63%	50%	140%	88%	60%	130%	82%	50%	140%
Chloroform	6599553		<0.04	<0.04	NA	< 0.04	74%	50%	140%	76%	60%	130%	74%	50%	140%
1,2-Dichloroethane	6599553		<0.03	<0.03	NA	< 0.03	74%	50%	140%	85%	60%	130%	77%	50%	140%
1,1,1-Trichloroethane	6599553		<0.05	<0.05	NA	< 0.05	107%	50%	140%	100%	60%	130%	106%	50%	140%
Carbon Tetrachloride	6599553		<0.05	<0.05	NA	< 0.05	110%	50%	140%	108%	60%	130%	107%	50%	140%

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z260479
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis (Continued)

RPT Date: Mar 31, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	6599553		<0.02	<0.02	NA	< 0.02	111%	50%	140%	65%	60%	130%	69%	50%	140%
1,2-Dichloropropane	6599553		<0.03	<0.03	NA	< 0.03	113%	50%	140%	95%	60%	130%	92%	50%	140%
Trichloroethylene	6599553		<0.03	<0.03	NA	< 0.03	54%	50%	140%	63%	60%	130%	79%	50%	140%
Bromodichloromethane	6599553		<0.05	<0.05	NA	< 0.05	91%	50%	140%	63%	60%	130%	109%	50%	140%
Methyl Isobutyl Ketone	6599553		<0.50	<0.50	NA	< 0.50	109%	50%	140%	109%	50%	140%	95%	50%	140%
1,1,2-Trichloroethane	6599553		<0.04	<0.04	NA	< 0.04	94%	50%	140%	101%	60%	130%	67%	50%	140%
Toluene	6599553		<0.05	<0.05	NA	< 0.05	88%	50%	140%	97%	60%	130%	63%	50%	140%
Dibromochloromethane	6599553		<0.05	<0.05	NA	< 0.05	91%	50%	140%	106%	60%	130%	80%	50%	140%
Ethylene Dibromide	6599553		<0.04	<0.04	NA	< 0.04	100%	50%	140%	112%	60%	130%	85%	50%	140%
Tetrachloroethylene	6599553		<0.05	<0.05	NA	< 0.05	105%	50%	140%	110%	60%	130%	90%	50%	140%
1,1,1,2-Tetrachloroethane	6599553		<0.04	<0.04	NA	< 0.04	108%	50%	140%	91%	60%	130%	102%	50%	140%
Chlorobenzene	6599553		<0.05	<0.05	NA	< 0.05	93%	50%	140%	102%	60%	130%	70%	50%	140%
Ethylbenzene	6599553		<0.05	<0.05	NA	< 0.05	94%	50%	140%	103%	60%	130%	66%	50%	140%
m & p-Xylene	6599553		<0.05	<0.05	NA	< 0.05	96%	50%	140%	106%	60%	130%	105%	50%	140%
Bromoform	6599553		<0.05	<0.05	NA	< 0.05	86%	50%	140%	64%	60%	130%	105%	50%	140%
Styrene	6599553		<0.05	<0.05	NA	< 0.05	101%	50%	140%	110%	60%	130%	85%	50%	140%
1,1,2,2-Tetrachloroethane	6599553		<0.05	<0.05	NA	< 0.05	73%	50%	140%	91%	60%	130%	70%	50%	140%
o-Xylene	6599553		<0.05	<0.05	NA	< 0.05	99%	50%	140%	110%	60%	130%	74%	50%	140%
1,3-Dichlorobenzene	6599553		<0.05	<0.05	NA	< 0.05	111%	50%	140%	115%	60%	130%	86%	50%	140%
1,4-Dichlorobenzene	6599553		<0.05	<0.05	NA	< 0.05	109%	50%	140%	111%	60%	130%	84%	50%	140%
1,2-Dichlorobenzene	6599553		<0.05	<0.05	NA	< 0.05	108%	50%	140%	107%	60%	130%	84%	50%	140%
n-Hexane	6599553		<0.05	<0.05	NA	< 0.05	61%	50%	140%	61%	60%	130%	72%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6609559		< 0.1	< 0.1	NA	< 0.1	101%	50%	140%	101%	50%	140%	86%	50%	140%

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

Certified By: R. Chakraberty

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE

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Method Summary

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AGAT WORK ORDER: 25Z260479
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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

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AGAT WORK ORDER: 25Z260479

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: Geosynke Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosynke.com
2. Email: esdat.ygeosynke@esdatlabsync.net

Project Information:

Project: TR1363B
Site Location: 1309 Carling Ave, Ottawa ON
Sampled By: Tristan Kennaley
AGAT Quote #: 34216608942 PO: TR1363B-6501

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

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One)
☒ Coarse ☐ Fine

☐ Regulation 406
Table (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

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

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

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 25Z260479

Cooler Quantity: One - bagged ice
Arrival Temperatures: 2.6 | 2.1 | 2.5
Depot Temperatures: 8.1 | 8.3 | 7.4
Custody Seal Intact: ☐ Yes ☐ No ☑ N/A
Notes: baggedice

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☒ CrVI, ☒ Hg, ☒ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. 25-06-SS2_0-2	20/03/25	15:45 AM/PM	5	S		N	X	X	X	X	X								
2. 25-06-SS2_2.5-4.5	20/03/25	15:30 AM/PM	4	S		N	X	X	X	X	X								
3. 25-09-SS1_0-2	20/03/25	16:00 AM/PM	5	S		N	X	X	X	X	X								
4. 25-09-SS2_2.5-4.5	20/03/25	16:25 AM/PM	5	S		N	X	X	X	X	X								
5. 25-09-SS4_7.5-9.5	20/03/25	16:10 AM/PM	4	S		N	X	X	X	X	X								
6. 25-09-SS5_10-12	20/03/25	17:05 AM/PM	5	S	HOLD	N	X	X	X	X	X								
7. 25-10-SS1_2.5-4.5	20/03/25	16:45 AM/PM	5	S		N	X	X	X	X	X								
8. DUP02	20/03/25	00:02 AM/PM	5	S		N	X	X	X	X	X								
9. DUP03	20/03/25	00:03 AM/PM	5	S	HOLD	N	X	X	X	X	X								
10. DUP04	20/03/25	00:04 AM/PM	5	S		N	X	X	X	X	X								
11. Comments: Please send Esdat format EDDs to esdat.ygeosynke@esdatlabsync.net																			

	Date	Time		Date	Time
Samples Relinquished By (Print Name and Sign): Tristan Kennaley	20/03/25	18:15	Samples Received By (Print Name and Sign): V. Galeano UOG	25/03/21	08:31
Samples Relinquished By (Print Name and Sign): UPS to Guelph	03/21/25	15h00	Samples Received By (Print Name and Sign):	03/22/25	11 am
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 1

N°: T-167277

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

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z261143

SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Mar 31, 2025

PAGES (INCLUDING COVER): 16

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
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- The test results reported herewith relate only to the samples as received by the laboratory.
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- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-24

DATE REPORTED: 2025-03-31

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: 25-11-SS1_1-2 SAMPLE TYPE: Soil DATE SAMPLED: 2025-03-21 17:10 6607398	SAMPLE DESCRIPTION: 25-11-SS6_10-12 SAMPLE TYPE: Soil DATE SAMPLED: 2025-03-21 17:15 6607399
Antimony	µg/g		0.8	<0.8	<0.8
Arsenic	µg/g		1	7	6
Barium	µg/g		2.0	20.7	77.9
Beryllium	µg/g		0.5	<0.5	<0.5
Boron	µg/g		5	6	6
Boron (Hot Water Soluble)	µg/g		0.10	0.26	0.18
Cadmium	µg/g		0.5	<0.5	<0.5
Chromium	µg/g		5	9	21
Cobalt	µg/g		0.8	5.8	8.3
Copper	µg/g		1.0	6.2	12.0
Lead	µg/g		1	15	15
Molybdenum	µg/g		0.5	5.0	4.4
Nickel	µg/g		1	11	17
Selenium	µg/g		0.8	<0.8	<0.8
Silver	µg/g		0.5	<0.5	<0.5
Thallium	µg/g		0.5	<0.5	<0.5
Uranium	µg/g		0.50	0.51	0.59
Vanadium	µg/g		2.0	9.0	23.3
Zinc	µg/g		5	16	24
Chromium, Hexavalent	µg/g		0.2	<0.2	<0.2
Cyanide, WAD	µg/g		0.040	<0.040	<0.040
Mercury	µg/g		0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm		0.005	3.37	2.12
Sodium Adsorption Ratio (2:1) (Calc.)	N/A		N/A	2.6	7.4
pH, 2:1 CaCl2 Extraction	pH Units		NA	6.89	7.02

Certified By:

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-24

DATE REPORTED: 2025-03-31

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

6607398-6607399 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-24

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-11-SS1_1-2	25-11-SS6_10-12
SAMPLE TYPE:				Soil	Soil
DATE SAMPLED:				2025-03-21 17:10	2025-03-21 17:15
Parameter	Unit	G / S	RDL	6607398	6607399
Naphthalene	µg/g		0.05	<0.05	<0.05
Acenaphthylene	µg/g		0.05	<0.05	<0.05
Acenaphthene	µg/g		0.05	<0.05	<0.05
Fluorene	µg/g		0.05	<0.05	<0.05
Phenanthrene	µg/g		0.05	<0.05	<0.05
Anthracene	µg/g		0.05	<0.05	<0.05
Fluoranthene	µg/g		0.05	<0.05	<0.05
Pyrene	µg/g		0.05	<0.05	<0.05
Benzo(a)anthracene	µg/g		0.05	<0.05	<0.05
Chrysene	µg/g		0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g		0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g		0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g		0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g		0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g		0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits			
Naphthalene-d8	%	50-140		80	80
Acridine-d9	%	50-140		75	100
Terphenyl-d14	%	50-140		85	110

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

6607398-6607399 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-24

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-11-SS1_1-2	25-11-SS6_10-12
SAMPLE TYPE:				Soil	Soil
DATE SAMPLED:				2025-03-21 17:10	2025-03-21 17:15
Parameter	Unit	G / S	RDL	6607398	6607399
Polychlorinated Biphenyls	µg/g		0.1	<0.1	<0.1
Moisture Content	%		0.1	5.2	11.4
Surrogate	Unit	Acceptable Limits			
Decachlorobiphenyl	%	50-140		80	72

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

6607398-6607399 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-24

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-11-SS1_1-2	25-11-SS6_10-12
SAMPLE TYPE:				Soil	Soil
DATE SAMPLED:				2025-03-21 17:10	2025-03-21 17:15
Parameter	Unit	G / S	RDL	6607398	6607399
F1 (C6 to C10)	µg/g		5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50
F4 (C34 to C50)	µg/g		50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA
Surrogate	Unit	Acceptable Limits			
Toluene-d8	%	50-140		108	110
Terphenyl	%	60-140		93	83

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

6607398-6607399 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-24

DATE REPORTED: 2025-03-31

SAMPLE DESCRIPTION:				25-11-SS1_1-2	25-11-SS6_10-12
SAMPLE TYPE:				Soil	Soil
DATE SAMPLED:				2025-03-21 17:10	2025-03-21 17:15
Parameter	Unit	G / S	RDL	6607398	6607399
Dichlorodifluoromethane	µg/g		0.05	<0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02	<0.02
Bromomethane	ug/g		0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05	<0.05
Acetone	ug/g		0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02	<0.02
Chloroform	ug/g		0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05	<0.05
Benzene	ug/g		0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04	<0.04
Toluene	ug/g		0.05	<0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05	<0.05

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-03-24

DATE REPORTED: 2025-03-31

				SAMPLE DESCRIPTION:	25-11-SS1_1-2	25-11-SS6_10-12
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2025-03-21 17:10	2025-03-21 17:15
Parameter	Unit	G / S	RDL		6607398	6607399
Ethylbenzene	ug/g		0.05		<0.05	<0.05
m & p-Xylene	ug/g		0.05		<0.05	<0.05
Bromoform	ug/g		0.05		<0.05	<0.05
Styrene	ug/g		0.05		<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05		<0.05	<0.05
o-Xylene	ug/g		0.05		<0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05		<0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05		<0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05		<0.05	<0.05
Xylenes (Total)	ug/g		0.05		<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g		0.05		<0.05	<0.05
n-Hexane	µg/g		0.05		<0.05	<0.05
Surrogate	Unit	Acceptable Limits				
Toluene-d8	% Recovery	50-140			108	110
4-Bromofluorobenzene	% Recovery	50-140			74	71

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

6607398-6607399 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z261143
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Soil Analysis

RPT Date: Mar 31, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6602064		<0.8	<0.8	NA	< 0.8	128%	70%	130%	102%	80%	120%	71%	70%	130%
Arsenic	6602064		1	1	NA	< 1	106%	70%	130%	104%	80%	120%	127%	70%	130%
Barium	6602064		43.5	49.9	13.7%	< 2.0	105%	70%	130%	105%	80%	120%	128%	70%	130%
Beryllium	6602064		<0.5	<0.5	NA	< 0.5	85%	70%	130%	100%	80%	120%	123%	70%	130%
Boron	6602064		6	7	NA	< 5	83%	70%	130%	81%	80%	120%	106%	70%	130%
Boron (Hot Water Soluble)	6602064		0.50	0.44	NA	< 0.10	110%	60%	140%	102%	70%	130%	112%	60%	140%
Cadmium	6602064		<0.5	<0.5	NA	< 0.5	107%	70%	130%	99%	80%	120%	109%	70%	130%
Chromium	6602064		13	14	NA	< 5	104%	70%	130%	104%	80%	120%	110%	70%	130%
Cobalt	6602064		3.1	3.5	NA	< 0.8	94%	70%	130%	104%	80%	120%	102%	70%	130%
Copper	6602064		9.3	10.4	11.2%	< 1.0	94%	70%	130%	108%	80%	120%	99%	70%	130%
Lead	6602064		5	6	18.2%	< 1	108%	70%	130%	114%	80%	120%	97%	70%	130%
Molybdenum	6602064		2.8	3.1	10.2%	< 0.5	105%	70%	130%	95%	80%	120%	110%	70%	130%
Nickel	6602064		15	16	6.5%	< 1	94%	70%	130%	97%	80%	120%	96%	70%	130%
Selenium	6602064		<0.8	<0.8	NA	< 0.8	94%	70%	130%	106%	80%	120%	96%	70%	130%
Silver	6602064		<0.5	<0.5	NA	< 0.5	98%	70%	130%	92%	80%	120%	100%	70%	130%
Thallium	6602064		<0.5	<0.5	NA	< 0.5	103%	70%	130%	97%	80%	120%	99%	70%	130%
Uranium	6602064		<0.50	<0.50	NA	< 0.50	105%	70%	130%	97%	80%	120%	105%	70%	130%
Vanadium	6602064		24.8	26.6	7.0%	< 2.0	100%	70%	130%	96%	80%	120%	107%	70%	130%
Zinc	6602064		21	21	NA	< 5	100%	70%	130%	101%	80%	120%	98%	70%	130%
Chromium, Hexavalent	6612409		<0.2	<0.2	NA	< 0.2	102%	70%	130%	90%	80%	120%	72%	70%	130%
Cyanide, WAD	6598907		<0.040	<0.040	NA	< 0.040	101%	70%	130%	103%	80%	120%	102%	70%	130%
Mercury	6602064		<0.10	<0.10	NA	< 0.10	122%	70%	130%	117%	80%	120%	116%	70%	130%
Electrical Conductivity (2:1)	6607398	6607398	3.37	3.38	0.3%	< 0.005	94%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6607398	6607398	2.6	2.5	3.9%	NA	NA								
pH, 2:1 CaCl2 Extraction	6601811		6.97	7.09	1.7%	NA	97%	80%	120%						

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

Certified By:

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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z261143
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis

RPT Date: Mar 31, 2025

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6609559		< 0.1	< 0.1	NA	< 0.1	101%	50%	140%	101%	50%	140%	86%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6608156		<0.05	<0.05	NA	< 0.05	117%	50%	140%	78%	50%	140%	80%	50%	140%
Acenaphthylene	6608156		<0.05	<0.05	NA	< 0.05	106%	50%	140%	68%	50%	140%	80%	50%	140%
Acenaphthene	6608156		<0.05	<0.05	NA	< 0.05	111%	50%	140%	80%	50%	140%	73%	50%	140%
Fluorene	6608156		<0.05	<0.05	NA	< 0.05	108%	50%	140%	73%	50%	140%	73%	50%	140%
Phenanthrene	6608156		<0.05	<0.05	NA	< 0.05	114%	50%	140%	85%	50%	140%	75%	50%	140%
Anthracene	6608156		<0.05	<0.05	NA	< 0.05	102%	50%	140%	80%	50%	140%	90%	50%	140%
Fluoranthene	6608156		<0.05	<0.05	NA	< 0.05	105%	50%	140%	85%	50%	140%	93%	50%	140%
Pyrene	6608156		<0.05	<0.05	NA	< 0.05	105%	50%	140%	88%	50%	140%	80%	50%	140%
Benzo(a)anthracene	6608156		<0.05	<0.05	NA	< 0.05	72%	50%	140%	73%	50%	140%	75%	50%	140%
Chrysene	6608156		<0.05	<0.05	NA	< 0.05	113%	50%	140%	78%	50%	140%	95%	50%	140%
Benzo(b)fluoranthene	6608156		<0.05	<0.05	NA	< 0.05	112%	50%	140%	75%	50%	140%	93%	50%	140%
Benzo(k)fluoranthene	6608156		<0.05	<0.05	NA	< 0.05	106%	50%	140%	75%	50%	140%	83%	50%	140%
Benzo(a)pyrene	6608156		<0.05	<0.05	NA	< 0.05	71%	50%	140%	73%	50%	140%	83%	50%	140%
Indeno(1,2,3-cd)pyrene	6608156		<0.05	<0.05	NA	< 0.05	94%	50%	140%	80%	50%	140%	73%	50%	140%
Dibenz(a,h)anthracene	6608156		<0.05	<0.05	NA	< 0.05	70%	50%	140%	73%	50%	140%	75%	50%	140%
Benzo(g,h,i)perylene	6608156		<0.05	<0.05	NA	< 0.05	91%	50%	140%	78%	50%	140%	85%	50%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6599553		<0.05	<0.05	NA	< 0.05	116%	50%	140%	85%	50%	140%	93%	50%	140%
Vinyl Chloride	6599553		<0.02	<0.02	NA	< 0.02	101%	50%	140%	72%	50%	140%	94%	50%	140%
Bromomethane	6599553		<0.05	<0.05	NA	< 0.05	95%	50%	140%	61%	50%	140%	100%	50%	140%
Trichlorofluoromethane	6599553		<0.05	<0.05	NA	< 0.05	63%	50%	140%	83%	50%	140%	115%	50%	140%
Acetone	6599553		<0.50	<0.50	NA	< 0.50	106%	50%	140%	87%	50%	140%	91%	50%	140%
Methylene Chloride	6599553		<0.05	<0.05	NA	< 0.05	79%	50%	140%	71%	60%	130%	73%	50%	140%
Trans- 1,2-Dichloroethylene	6599553		<0.05	<0.05	NA	< 0.05	108%	50%	140%	93%	60%	130%	111%	50%	140%
Methyl tert-butyl Ether	6599553		<0.05	<0.05	NA	< 0.05	110%	50%	140%	105%	60%	130%	79%	50%	140%
1,1-Dichloroethane	6599553		<0.02	<0.02	NA	< 0.02	72%	50%	140%	81%	60%	130%	62%	50%	140%
Methyl Ethyl Ketone	6599553		<0.50	<0.50	NA	< 0.50	79%	50%	140%	77%	50%	140%	79%	50%	140%
Cis- 1,2-Dichloroethylene	6599553		<0.02	<0.02	NA	< 0.02	63%	50%	140%	88%	60%	130%	82%	50%	140%
Chloroform	6599553		<0.04	<0.04	NA	< 0.04	74%	50%	140%	76%	60%	130%	74%	50%	140%
1,2-Dichloroethane	6599553		<0.03	<0.03	NA	< 0.03	74%	50%	140%	85%	60%	130%	77%	50%	140%
1,1,1-Trichloroethane	6599553		<0.05	<0.05	NA	< 0.05	107%	50%	140%	100%	60%	130%	106%	50%	140%
Carbon Tetrachloride	6599553		<0.05	<0.05	NA	< 0.05	110%	50%	140%	108%	60%	130%	107%	50%	140%
Benzene	6599553		<0.02	<0.02	NA	< 0.02	111%	50%	140%	65%	60%	130%	69%	50%	140%
1,2-Dichloropropane	6599553		<0.03	<0.03	NA	< 0.03	113%	50%	140%	95%	60%	130%	92%	50%	140%
Trichloroethylene	6599553		<0.03	<0.03	NA	< 0.03	76%	50%	140%	63%	60%	130%	79%	50%	140%
Bromodichloromethane	6599553		<0.05	<0.05	NA	< 0.05	91%	50%	140%	63%	60%	130%	109%	50%	140%

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Quality Assurance

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AGAT WORK ORDER: 25Z261143
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis (Continued)

RPT Date: Mar 31, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Methyl Isobutyl Ketone	6599553		<0.50	<0.50	NA	< 0.50	109%	50%	140%	85%	50%	140%	95%	50%	140%
1,1,2-Trichloroethane	6599553		<0.04	<0.04	NA	< 0.04	94%	50%	140%	101%	60%	130%	67%	50%	140%
Toluene	6599553		<0.05	<0.05	NA	< 0.05	88%	50%	140%	97%	60%	130%	63%	50%	140%
Dibromochloromethane	6599553		<0.05	<0.05	NA	< 0.05	91%	50%	140%	106%	60%	130%	80%	50%	140%
Ethylene Dibromide	6599553		<0.04	<0.04	NA	< 0.04	100%	50%	140%	112%	60%	130%	85%	50%	140%
Tetrachloroethylene	6599553		<0.05	<0.05	NA	< 0.05	110%	50%	140%	115%	60%	130%	85%	50%	140%
1,1,1,2-Tetrachloroethane	6599553		<0.04	<0.04	NA	< 0.04	108%	50%	140%	91%	60%	130%	102%	50%	140%
Chlorobenzene	6599553		<0.05	<0.05	NA	< 0.05	93%	50%	140%	102%	60%	130%	70%	50%	140%
Ethylbenzene	6599553		<0.05	<0.05	NA	< 0.05	94%	50%	140%	103%	60%	130%	66%	50%	140%
m & p-Xylene	6599553		<0.05	<0.05	NA	< 0.05	96%	50%	140%	106%	60%	130%	105%	50%	140%
Bromoform	6599553		<0.05	<0.05	NA	< 0.05	86%	50%	140%	64%	60%	130%	105%	50%	140%
Styrene	6599553		<0.05	<0.05	NA	< 0.05	101%	50%	140%	110%	60%	130%	85%	50%	140%
1,1,2,2-Tetrachloroethane	6599553		<0.05	<0.05	NA	< 0.05	73%	50%	140%	91%	60%	130%	70%	50%	140%
o-Xylene	6599553		<0.05	<0.05	NA	< 0.05	99%	50%	140%	110%	60%	130%	74%	50%	140%
1,3-Dichlorobenzene	6599553		<0.05	<0.05	NA	< 0.05	111%	50%	140%	115%	60%	130%	86%	50%	140%
1,4-Dichlorobenzene	6599553		<0.05	<0.05	NA	< 0.05	109%	50%	140%	111%	60%	130%	84%	50%	140%
1,2-Dichlorobenzene	6599553		<0.05	<0.05	NA	< 0.05	108%	50%	140%	107%	60%	130%	84%	50%	140%
n-Hexane	6599553		<0.05	<0.05	NA	< 0.05	61%	50%	140%	61%	60%	130%	72%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6599553		<5	<5	NA	< 5	125%	60%	140%	113%	60%	140%	86%	60%	140%
F2 (C10 to C16)	6607120		< 10	< 10	NA	< 10	106%	60%	140%	83%	60%	140%	113%	60%	140%
F3 (C16 to C34)	6607120		< 50	< 50	NA	< 50	109%	60%	140%	81%	60%	140%	117%	60%	140%
F4 (C34 to C50)	6607120		< 50	< 50	NA	< 50	100%	60%	140%	90%	60%	140%	95%	60%	140%

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

Certified By: R. Chakraborty

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z261143

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan Kennaley

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

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Project Information:

Project: TR1363B
Site Location: 1309 Carling Ave, Ottawa ON
Sampled By: Tristan Kennedy
AGAT Quote #: 342166089412 PO: TR1363B-6501
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture — Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other — Indicate One

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

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

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 25726114 3
Cooler Quantity: One - melted ice.
Arrival Temperatures: 12.4 | 12.8 | 12.6
~~Arrival~~ Temperatures: 8.5 | 8.7 | 8.2
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: BIT

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package	pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B/aP ☐ PCBs	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B/aP ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. 25-11-SS1_1-2	21/03/25	17:10 AM PM	3	S		N	X	X	X	X	X	X								
2. 25-11-SS6_10-12	21/03/25	17:15 AM PM	3	S		N	X	X	X	X	X	X								
3.		AM PM																		
4.		AM PM																		
5.		AM PM																		
6.		AM PM																		
7.		AM PM																		
8.		AM PM																		
9.		AM PM																		
10.		AM PM																		
11.		AM PM																		

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Tristan Kennedy	21/03/25	17:45		03/24/25	08h40
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
	03/24/25	15h00		Mar 25	9 AM
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

Page ____ of ____

N°: T-167276

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

Document ID: DOV-78-1511.024

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Date Issued: Aug 09, 2024

AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z264070

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Yris Verastegui, Inorganic Team Lead

DATE REPORTED: Apr 04, 2025

PAGES (INCLUDING COVER): 22

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

SAMPLE DESCRIPTION:				MN25-07-GW20250325	DUP01	MW15-19-GS20250325
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-25 12:50	2025-03-25 12:50	2025-03-25 15:30
Parameter	Unit	G / S	RDL	6611173	6611179	6611182
Naphthalene	µg/L	1400	0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1.8	0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	600	0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	400	0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	580	0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	2.4	0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	130	0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	68	0.20	<0.20	<0.20	<0.20
Benzo(a)anthracene	µg/L	4.7	0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	1	0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.75	0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.4	0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.81	0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.52	0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20	<0.20
2-and 1-methyl Napthalene	µg/L	1800	0.20	<0.20	<0.20	<0.20
Sediment				1	1	1
Surrogate	Unit	Acceptable Limits				
Naphthalene-d8	%	50-140		111	109	72
Acridine-d9	%	50-140		83	94	111
Terphenyl-d14	%	50-140		104	108	70

Certified By: NPopnikolof

Results relate only to the items tested. Results apply to samples as received.

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6611173-6611182 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

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

Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

				MN25-07-GW20250325	DUP01	MW15-19-GS20250325
SAMPLE DESCRIPTION:						
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-25 12:50	2025-03-25 12:50	2025-03-25 15:30
Parameter	Unit	G / S	RDL	6611173	6611179	6611182
Polychlorinated Biphenyls	µg/L	7.8	0.1	<0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits				
Decachlorobiphenyl	%	60-140		77	80	79

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6611173-6611182 PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

SAMPLE DESCRIPTION:				MN25-07-GW20250325	DUP01	MW15-19-GS20250325
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-25 12:50	2025-03-25 12:50	2025-03-25 15:30
Parameter	Unit	G / S	RDL	6611173	6611179	6611182
F1 (C6 to C10)	µg/L	750	25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	308
F2 (C10 to C16) minus Naphthalene	µg/L		100	<100	<100	308
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L		100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA
Sediment				1	1	1
Surrogate	Unit	Acceptable Limits				
Toluene-d8	%	50-140		78	80	86
Terphenyl	% Recovery	60-140		78	90	92

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6611173-6611182 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amounts

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

				SAMPLE DESCRIPTION:	TRIP BLANK
				SAMPLE TYPE:	Water
				DATE SAMPLED:	2025-03-25 12:00
Parameter	Unit	G / S	RDL		6611180
Dichlorodifluoromethane	µg/L	4400	0.40		<0.40
Vinyl Chloride	µg/L	0.5	0.17		<0.17
Bromomethane	µg/L	5.6	0.20		<0.20
Trichlorofluoromethane	µg/L	2500	0.40		<0.40
Acetone	µg/L	130000	1.0		<1.0
1,1-Dichloroethylene	µg/L	1.6	0.30		<0.30
Methylene Chloride	µg/L	610	0.30		<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20		<0.20
Methyl tert-butyl ether	µg/L	190	0.20		<0.20
1,1-Dichloroethane	µg/L	320	0.30		<0.30
Methyl Ethyl Ketone	µg/L	470000	1.0		<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20		<0.20
Chloroform	µg/L	2.4	0.20		<0.20
1,2-Dichloroethane	µg/L	1.6	0.20		<0.20
1,1,1-Trichloroethane	µg/L	640	0.30		<0.30
Carbon Tetrachloride	µg/L	0.79	0.20		<0.20
Benzene	µg/L	44	0.20		<0.20
1,2-Dichloropropane	µg/L	16	0.20		<0.20
Trichloroethylene	µg/L	1.6	0.20		<0.20
Bromodichloromethane	µg/L	85000	0.20		<0.20
Methyl Isobutyl Ketone	µg/L	140000	1.0		<1.0
1,1,2-Trichloroethane	µg/L	4.7	0.20		<0.20
Toluene	µg/L	18000	0.20		<0.20
Dibromochloromethane	µg/L	82000	0.10		<0.10
Ethylene Dibromide	µg/L	0.25	0.10		<0.10
Tetrachloroethylene	µg/L	1.6	0.20		<0.20
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10		<0.10
Chlorobenzene	µg/L	630	0.10		<0.10
Ethylbenzene	µg/L	2300	0.10		<0.10

Certified By: NPopowkolof

Results relate only to the items tested. Results apply to samples as received.

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

				SAMPLE DESCRIPTION:	TRIP BLANK
				SAMPLE TYPE:	Water
				DATE SAMPLED:	2025-03-25 12:00
Parameter	Unit	G / S	RDL	6611180	
m & p-Xylene	µg/L		0.20	<0.20	
Bromoform	µg/L	380	0.10	<0.10	
Styrene	µg/L	1300	0.10	<0.10	
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10	
o-Xylene	µg/L		0.10	<0.10	
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10	
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10	
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30	
Xylenes (Total)	µg/L	4200	0.20	<0.20	
n-Hexane	µg/L	51	0.20	<0.20	
Surrogate	Unit	Acceptable Limits			
Toluene-d8	% Recovery	50-140		98	
4-Bromofluorobenzene	% Recovery	50-140		101	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6611180 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

SAMPLE DESCRIPTION:				MN25-07-GW20250325	DUP01	MW15-19-GS20250325
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-25 12:50	2025-03-25 12:50	2025-03-25 15:30
Parameter	Unit	G / S	RDL	6611173	6611179	6611182
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	0.5	0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	5.6	0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40	<0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	1.6	0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	610	0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	190	0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	320	0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	470000	1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	2.4	0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	1.6	0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	640	0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	0.79	0.20	<0.20	<0.20	<0.20
Benzene	µg/L	44	0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	16	0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	140000	1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	4.7	0.20	<0.20	<0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.25	0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10	<0.10	<0.10

Certified By: NPopnikolof

Results relate only to the items tested. Results apply to samples as received.

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

Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

SAMPLE DESCRIPTION:				MN25-07-GW20250325	DUP01	MW15-19-GS20250325
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-25 12:50	2025-03-25 12:50	2025-03-25 15:30
Parameter	Unit	G / S	RDL	6611173	6611179	6611182
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	380	0.10	<0.10	<0.10	<0.10
Styrene	µg/L	1300	0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	51	0.20	<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits				
Toluene-d8	% Recovery	50-140		78	80	86
4-Bromofluorobenzene	% Recovery	50-140		90	96	102

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6611173-6611182 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopnikolof

Results relate only to the items tested. Results apply to samples as received.

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

Mercury Analysis in Water (Dissolved)

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

SAMPLE DESCRIPTION:				MN25-07-GW20250325	DUP01	MW15-19-GS20250325
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-25 12:50	2025-03-25 12:50	2025-03-25 15:30
Parameter	Unit	G / S	RDL	6611173	6611179	6611182
Dissolved Mercury	ug/L		0.026	<0.026	<0.026	<0.026

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

Analysis performed at AGAT Halifax (unless marked by *)

Certified By: Iris Verástegui

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered [EXCLUDING Hg]

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

SAMPLE DESCRIPTION:				MN25-07-GW20250325	DUP01		MW15-19-GS20250325
SAMPLE TYPE:				Water	Water		Water
DATE SAMPLED:				2025-03-25 12:50	2025-03-25 12:50		2025-03-25 15:30
Parameter	Unit	G / S	RDL	6611173	6611179	RDL	6611182
Dissolved Antimony	µg/L	20000	1.0	<1.0	<1.0	1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	1.3	<1.0	1.0	<1.0
Dissolved Barium	µg/L	29000	2.0	521	534	2.0	285
Dissolved Beryllium	µg/L	67	0.50	<0.50	<0.50	0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	106	107	10.0	44.5
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	0.22	0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0	3.2	2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	2.32	2.51	0.50	<0.50
Dissolved Copper	µg/L	87	1.0	1.9	2.8	1.0	1.0
Dissolved Lead	µg/L	25	0.50	<0.50	<0.50	0.50	<0.50
Dissolved Molybdenum	µg/L	9200	0.50	9.58	9.72	0.50	3.30
Dissolved Nickel	µg/L	490	1.0	8.6	10.8	1.0	1.6
Dissolved Selenium	µg/L	63	1.0	2.7	2.3	1.0	<1.0
Dissolved Silver	µg/L	1.5	0.20	<0.20	<0.20	0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30	<0.30	0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	20.1	21.2	0.50	0.67
Dissolved Vanadium	µg/L	250	0.40	1.12	0.99	0.40	<0.40
Dissolved Zinc	µg/L	1100	5.0	<5.0	<5.0	5.0	<5.0
Chromium VI	µg/L	140	2.000	<2.000	<2.000	2.000	<2.000
Cyanide, WAD	µg/L	66	2	<2	<2	2	<2
Dissolved Sodium	µg/L	2300000	500	2080000	2130000	500	1020000
Chloride	µg/L	2300000	244	4250000	4380000	122	2480000
pH	pH Units		NA	7.49	7.54	NA	7.56
Lab Filtration Performed				Y	Y		Y

Certified By: Iris Verástegui

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered [EXCLUDING Hg]

DATE RECEIVED: 2025-03-25

DATE REPORTED: 2025-04-04

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6611173-6611182 Metals analysis completed on a lab filtered sample.
Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Iris Verástegui

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Exceedance Summary

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6611173	MN25-07-GW20250325	ON T3 NPGW CT	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered [EXCLUDING Hg]	Chloride	µg/L	2300000	4250000
6611179	DUP01	ON T3 NPGW CT	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered [EXCLUDING Hg]	Chloride	µg/L	2300000	4380000
6611182	MW15-19-GS20250325	ON T3 NPGW CT	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered [EXCLUDING Hg]	Chloride	µg/L	2300000	2480000
6611182	MW15-19-GS20250325	ON T3 NPGW CT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)	F2 (C10 to C16)	µg/L	150	308

Results relate only to the items tested. Results apply to samples as received.

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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z264070
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON
SAMPLED BY:H.B.,Hadiqa Butt

Trace Organics Analysis

RPT Date: Apr 04, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F1 (C6 to C10)	1	< 25	< 25	NA	< 25	88%	60%	140%	72%	60%	140%	89%	60%	140%	
F2 (C10 to C16)	6613223	< 100	< 100	NA	< 100	102%	60%	140%	67%	60%	140%	69%	60%	140%	
F3 (C16 to C34)	6613223	< 100	< 100	NA	< 100	103%	60%	140%	66%	60%	140%	65%	60%	140%	
F4 (C34 to C50)	6613223	< 100	< 100	NA	< 100	79%	60%	140%	89%	60%	140%	70%	60%	140%	
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	6613013	<0.20	<0.20	NA	< 0.20	119%	50%	140%	120%	50%	140%	87%	50%	140%	
Acenaphthylene	6613013	<0.20	<0.20	NA	< 0.20	110%	50%	140%	112%	50%	140%	81%	50%	140%	
Acenaphthene	6613013	<0.20	<0.20	NA	< 0.20	108%	50%	140%	109%	50%	140%	91%	50%	140%	
Fluorene	6613013	<0.20	<0.20	NA	< 0.20	110%	50%	140%	116%	50%	140%	94%	50%	140%	
Phenanthrene	6613013	<0.10	<0.10	NA	< 0.10	111%	50%	140%	117%	50%	140%	101%	50%	140%	
Anthracene	6613013	<0.10	<0.10	NA	< 0.10	104%	50%	140%	76%	50%	140%	81%	50%	140%	
Fluoranthene	6613013	<0.20	<0.20	NA	< 0.20	107%	50%	140%	117%	50%	140%	95%	50%	140%	
Pyrene	6613013	<0.20	<0.20	NA	< 0.20	101%	50%	140%	114%	50%	140%	96%	50%	140%	
Benzo(a)anthracene	6613013	<0.20	<0.20	NA	< 0.20	71%	50%	140%	83%	50%	140%	75%	50%	140%	
Chrysene	6613013	<0.10	<0.10	NA	< 0.10	107%	50%	140%	104%	50%	140%	87%	50%	140%	
Benzo(b)fluoranthene	6613013	<0.10	<0.10	NA	< 0.10	75%	50%	140%	82%	50%	140%	100%	50%	140%	
Benzo(k)fluoranthene	6613013	<0.10	<0.10	NA	< 0.10	111%	50%	140%	111%	50%	140%	105%	50%	140%	
Benzo(a)pyrene	6613013	<0.01	<0.01	NA	< 0.01	75%	50%	140%	71%	50%	140%	115%	50%	140%	
Indeno(1,2,3-cd)pyrene	6613013	<0.20	<0.20	NA	< 0.20	107%	50%	140%	83%	50%	140%	100%	50%	140%	
Dibenz(a,h)anthracene	6613013	<0.20	<0.20	NA	< 0.20	75%	50%	140%	85%	50%	140%	84%	50%	140%	
Benzo(g,h,i)perylene	6613013	<0.20	<0.20	NA	< 0.20	75%	50%	140%	76%	50%	140%	82%	50%	140%	
O. Reg. 153(511) - VOCs (with PHC) (Water)															
Dichlorodifluoromethane	6601806	< 0.40	< 0.40	0.0%	< 0.40	88%	50%	140%	90%	50%	140%	87%	50%	140%	
Vinyl Chloride	6601806	< 0.17	< 0.17	0.0%	< 0.17	65%	50%	140%	63%	50%	140%	78%	50%	140%	
Bromomethane	6601806	< 0.20	< 0.20	0.0%	< 0.20	81%	50%	140%	91%	50%	140%	70%	50%	140%	
Trichlorofluoromethane	6601806	< 0.40	< 0.40	0.0%	< 0.40	67%	50%	140%	69%	50%	140%	63%	50%	140%	
Acetone	6601806	< 1.0	< 1.0	0.0%	< 1.0	90%	50%	140%	93%	50%	140%	87%	50%	140%	
1,1-Dichloroethylene	6601806	< 0.30	< 0.30	0.0%	< 0.30	107%	50%	140%	86%	60%	130%	119%	50%	140%	
Methylene Chloride	6601806	< 0.30	< 0.30	0.0%	< 0.30	61%	50%	140%	73%	60%	130%	81%	50%	140%	
trans- 1,2-Dichloroethylene	6601806	< 0.20	< 0.20	0.0%	< 0.20	87%	50%	140%	85%	60%	130%	82%	50%	140%	
Methyl tert-butyl ether	6601806	< 0.20	< 0.20	0.0%	< 0.20	74%	50%	140%	97%	60%	130%	81%	50%	140%	
1,1-Dichloroethane	6601806	< 0.30	< 0.30	0.0%	< 0.30	62%	50%	140%	87%	60%	130%	97%	50%	140%	
Methyl Ethyl Ketone	6601806	< 1.0	< 1.0	0.0%	< 1.0	82%	50%	140%	86%	50%	140%	87%	50%	140%	
cis- 1,2-Dichloroethylene	6601806	< 0.20	< 0.20	0.0%	< 0.20	78%	50%	140%	97%	60%	130%	82%	50%	140%	
Chloroform	6601806	< 0.20	< 0.20	0.0%	< 0.20	72%	50%	140%	77%	60%	130%	80%	50%	140%	
1,2-Dichloroethane	6601806	< 0.20	< 0.20	0.0%	< 0.20	85%	50%	140%	82%	60%	130%	109%	50%	140%	
1,1,1-Trichloroethane	6601806	< 0.30	< 0.30	0.0%	< 0.30	78%	50%	140%	70%	60%	130%	86%	50%	140%	
Carbon Tetrachloride	6601806	< 0.20	< 0.20	0.0%	< 0.20	70%	50%	140%	77%	60%	130%	73%	50%	140%	

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z264070
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON
SAMPLED BY:H.B.,Hadiqa Butt

Trace Organics Analysis (Continued)

RPT Date: Apr 04, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	6601806		< 0.20	< 0.20	0.0%	< 0.20	92%	50%	140%	70%	60%	130%	83%	50%	140%
1,2-Dichloropropane	6601806		< 0.20	< 0.20	0.0%	< 0.20	80%	50%	140%	91%	60%	130%	99%	50%	140%
Trichloroethylene	6601806		< 0.20	< 0.20	0.0%	< 0.20	64%	50%	140%	93%	60%	130%	89%	50%	140%
Bromodichloromethane	6601806		< 0.20	< 0.20	0.0%	< 0.20	82%	50%	140%	64%	60%	130%	111%	50%	140%
Methyl Isobutyl Ketone	6601806		< 1.0	< 1.0	0.0%	< 1.0	82%	50%	140%	78%	50%	140%	73%	50%	140%
1,1,2-Trichloroethane	6601806		< 0.20	< 0.20	0.0%	< 0.20	70%	50%	140%	79%	60%	130%	90%	50%	140%
Toluene	6601806		< 0.20	< 0.20	0.0%	< 0.20	75%	50%	140%	80%	60%	130%	105%	50%	140%
Dibromochloromethane	6601806		< 0.10	< 0.10	0.0%	< 0.10	97%	50%	140%	72%	60%	130%	82%	50%	140%
Ethylene Dibromide	6601806		< 0.10	< 0.10	0.0%	< 0.10	82%	50%	140%	83%	60%	130%	73%	50%	140%
Tetrachloroethylene	6601806		< 0.20	< 0.20	0.0%	< 0.20	73%	50%	140%	80%	60%	130%	105%	50%	140%
1,1,1,2-Tetrachloroethane	6601806		< 0.10	< 0.10	0.0%	< 0.10	113%	50%	140%	105%	60%	130%	83%	50%	140%
Chlorobenzene	6601806		< 0.10	< 0.10	0.0%	< 0.10	80%	50%	140%	84%	60%	130%	104%	50%	140%
Ethylbenzene	6601806		< 0.10	< 0.10	0.0%	< 0.10	80%	50%	140%	90%	60%	130%	103%	50%	140%
m & p-Xylene	6601806		< 0.20	< 0.20	0.0%	< 0.20	81%	50%	140%	92%	60%	130%	100%	50%	140%
Bromoform	6601806		< 0.10	< 0.10	0.0%	< 0.10	68%	50%	140%	71%	60%	130%	96%	50%	140%
Styrene	6601806		< 0.10	< 0.10	0.0%	< 0.10	74%	50%	140%	86%	60%	130%	82%	50%	140%
1,1,2,2-Tetrachloroethane	6601806		< 0.10	< 0.10	0.0%	< 0.10	61%	50%	140%	75%	60%	130%	66%	50%	140%
o-Xylene	6601806		< 0.10	< 0.10	0.0%	< 0.10	73%	50%	140%	78%	60%	130%	87%	50%	140%
1,3-Dichlorobenzene	6601806		< 0.10	< 0.10	0.0%	< 0.10	80%	50%	140%	91%	60%	130%	81%	50%	140%
1,4-Dichlorobenzene	6601806		< 0.10	< 0.10	0.0%	< 0.10	104%	50%	140%	105%	60%	130%	87%	50%	140%
1,2-Dichlorobenzene	6601806		< 0.10	< 0.10	0.0%	< 0.10	116%	50%	140%	111%	60%	130%	64%	50%	140%
n-Hexane	6601806		< 0.20	< 0.20	0.0%	< 0.20	87%	50%	140%	89%	60%	130%	90%	50%	140%
O. Reg. 153(511) - PCBs (Water)															
Polychlorinated Biphenyls	6611506		< 0.1	< 0.1	NA	< 0.1	99%	50%	140%	97%	50%	140%	93%	50%	140%

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

Certified By: N Popnikolof

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

Water Analysis

RPT Date: Apr 04, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered [EXCLUDING Hg]															
Dissolved Antimony	6612895		<1.0	<1.0	NA	< 1.0	104%	70%	130%	106%	80%	120%	110%	70%	130%
Dissolved Arsenic	6612895		2.1	2.5	NA	< 1.0	98%	70%	130%	101%	80%	120%	105%	70%	130%
Dissolved Barium	6612895		60.6	58.9	2.8%	< 2.0	100%	70%	130%	101%	80%	120%	101%	70%	130%
Dissolved Beryllium	6612895		<0.50	<0.50	NA	< 0.50	97%	70%	130%	103%	80%	120%	97%	70%	130%
Dissolved Boron	6612895		13.3	12.9	NA	< 10.0	102%	70%	130%	106%	80%	120%	98%	70%	130%
Dissolved Cadmium	6612895		<0.20	<0.20	NA	< 0.20	100%	70%	130%	103%	80%	120%	102%	70%	130%
Dissolved Chromium	6612895		<2.0	<2.0	NA	< 2.0	104%	70%	130%	108%	80%	120%	109%	70%	130%
Dissolved Cobalt	6612895		0.73	0.85	NA	< 0.50	105%	70%	130%	107%	80%	120%	106%	70%	130%
Dissolved Copper	6612895		<1.0	<1.0	NA	< 1.0	101%	70%	130%	104%	80%	120%	102%	70%	130%
Dissolved Lead	6612895		0.98	0.96	NA	< 0.50	102%	70%	130%	102%	80%	120%	98%	70%	130%
Dissolved Molybdenum	6612895		0.50	<0.50	NA	< 0.50	102%	70%	130%	109%	80%	120%	111%	70%	130%
Dissolved Nickel	6612895		2.4	2.4	NA	< 1.0	102%	70%	130%	107%	80%	120%	101%	70%	130%
Dissolved Selenium	6612895		1.8	<1.0	NA	< 1.0	100%	70%	130%	99%	80%	120%	98%	70%	130%
Dissolved Silver	6612895		<0.20	<0.20	NA	< 0.20	101%	70%	130%	101%	80%	120%	96%	70%	130%
Dissolved Thallium	6612895		<0.30	<0.30	NA	< 0.30	100%	70%	130%	101%	80%	120%	96%	70%	130%
Dissolved Uranium	6612895		5.90	5.66	4.2%	< 0.50	108%	70%	130%	108%	80%	120%	103%	70%	130%
Dissolved Vanadium	6612895		<0.40	<0.40	NA	< 0.40	107%	70%	130%	113%	80%	120%	113%	70%	130%
Dissolved Zinc	6612895		<5.0	<5.0	NA	< 5.0	102%	70%	130%	109%	80%	120%	104%	70%	130%
Chromium VI	6612224		<2.000	<2.000	NA	< 2	102%	70%	130%	106%	80%	120%	99%	70%	130%
Cyanide, WAD	6606551		<2	<2	NA	< 2	98%	70%	130%	96%	80%	120%	106%	70%	130%
Dissolved Sodium	6612895		72100	67600	6.4%	< 50	97%	70%	130%	98%	80%	120%	96%	70%	130%
Chloride	6617063		111000	110000	0.9%	< 100	97%	70%	130%	99%	80%	120%	104%	70%	130%
pH	6613567		7.36	7.41	0.7%	NA	100%	90%	110%						

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

Mercury Analysis in Water (Dissolved)

Dissolved Mercury	6601030		<0.026	<0.026	NA	< 0.026	97%	80%	120%	99%	80%	120%	98%	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Iris Verástegui

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Napthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			N/A
Polychlorinated Biphenyls	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

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

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264070

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1209 Carling Ave, Ottawa ON,1209 Carling Ave, Ottawa ON

SAMPLED BY:H.B.,Hadiqa Butt

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Mercury	MET-121-6100 & MET-121-6107	SM 3112 B	CV/AA
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Dissolved Sodium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP/MS
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE
Lab Filtration Performed			FILTRATION

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

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webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 25Z264070

Cooler Quantity: one - bagged ice

Arrival Temperatures: 9.3 | 8.6 | 9.0

~~Depot~~ Temperatures: 5.8 | 5.1 | 5.5

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: B I

Report Information:

Company: Geosyntec Consultants

Contact: Kevin Kim

Address: 130 Stone Road west, Guelph ON N1G 3Z2

Phone: 416 916 6005 Fax:

Reports to be sent to:

1. Email: kevin.kim@geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406
Table ____ (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

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

Project Information:

Project: TR1603B

Site Location: 1209 Carling Ave, Ottawa ON

Sampled By: Hadiqa Butt

AGAT Quote #: 34221660942 PO:

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

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

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

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:

Contact:

Address:

Email:

Legal Sample ☐

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☒ CrVI, ☒ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach	O. Reg 406: mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 558: TCLP: Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. MW25-07-GW20250325	25103125	12.50 AM/PM	18	GW		N	X	X	X	X	X	X			X					
2. DUP01	25103125	12:50 AM/PM	18	GW		N	X	X	X	X	X	X								
3. TRIP BLANK	25103125	~~15:30~~ AM/PM	~~3~~	GW		N				X										
4. MW15-19-GW20250325	25103125	15:30 AM/PM	18	GW		N	X	X	X	X	X	X								
5.		AM/PM																		
6.		AM/PM																		
7.		AM/PM																		
8.		AM/PM																		
9.		AM/PM																		
10.		AM/PM																		
11. Comments: Please sent Esdat format	GDPS	AM/PM	Esdat + geosyntec@esdatlabsync.net																	

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Hadiqa Butt	25103125	16:30		03/25/25	16:40
	03/25/25	15:40		Mar 26	9 AM

Page ____ of ____

N: T-167279

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

Document ID: DIV-78-1511.024

Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document.

Date Issued: Aug 29, 2024

AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z264766

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

DATE REPORTED: Apr 07, 2025

PAGES (INCLUDING COVER): 22

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

SAMPLE DESCRIPTION:				MW25-06-GW20250326	DUP02	MW15-03-GW20250326
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-26 09:20	2025-03-26 09:20	2025-03-26 15:30
Parameter	Unit	G / S	RDL	6616647	6616648	6616652
Naphthalene	µg/L	7	0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1	0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	4.1	0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	120	0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	0.1	0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	0.1	0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	0.4	0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20
Benzo(a)anthracene	µg/L	0.2	0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	0.1	0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.1	0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.1	0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.01	0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.2	0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20	<0.20
2-and 1-methyl Napthalene	µg/L	2	0.20	<0.20	<0.20	<0.20
Sediment				1	1	1
Surrogate	Unit	Acceptable Limits				
Naphthalene-d8	%	50-140		100	113	120
Acridine-d9	%	50-140		107	119	100
Terphenyl-d14	%	50-140		107	120	120

Certified By: NPopnikolof

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6616647-6616652 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

SAMPLE DESCRIPTION:				MW25-06-GW20250326	DUP02	MW15-03-GW20250326
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-26 09:20	2025-03-26 09:20	2025-03-26 15:30
Parameter	Unit	G / S	RDL	6616647	6616648	6616652
F1 (C6 to C10)	µg/L	420	25	<25	<25	76
F1 (C6 to C10) minus BTEX	µg/L	420	25	<25	<25	76
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L		100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA
Sediment				1	1	1
Surrogate	Unit	Acceptable Limits				
Toluene-d8	%	50-140		103	96	107
Terphenyl	% Recovery	60-140		83	63	83

Certified By: NPopowich

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6616647-6616652 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amounts

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

		SAMPLE DESCRIPTION:		Trip Blank
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-03-26
Parameter	Unit	G / S	RDL	6616646
Dichlorodifluoromethane	µg/L	590	0.40	<0.40
Vinyl Chloride	µg/L	0.5	0.17	<0.17
Bromomethane	µg/L	0.89	0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40	<0.40
Acetone	µg/L	2700	1.0	<1.0
1,1-Dichloroethylene	µg/L	0.5	0.30	<0.30
Methylene Chloride	µg/L	5	0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20
Methyl tert-butyl ether	µg/L	15	0.20	<0.20
1,1-Dichloroethane	µg/L	0.5	0.30	<0.30
Methyl Ethyl Ketone	µg/L	400	1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20
Chloroform	µg/L	2	0.20	<0.20
1,2-Dichloroethane	µg/L	0.5	0.20	<0.20
1,1,1-Trichloroethane	µg/L	0.5	0.30	<0.30
Carbon Tetrachloride	µg/L	0.2	0.20	<0.20
Benzene	µg/L	0.5	0.20	<0.20
1,2-Dichloropropane	µg/L	0.5	0.20	<0.20
Trichloroethylene	µg/L	0.5	0.20	<0.20
Bromodichloromethane	µg/L	2	0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0
1,1,2-Trichloroethane	µg/L	0.5	0.20	<0.20
Toluene	µg/L	0.8	0.20	<0.20
Dibromochloromethane	µg/L	2	0.10	<0.10
Ethylene Dibromide	µg/L	0.2	0.10	<0.10
Tetrachloroethylene	µg/L	0.5	0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	1.1	0.10	<0.10
Chlorobenzene	µg/L	0.5	0.10	<0.10
Ethylbenzene	µg/L	0.5	0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20

Certified By: NPopnikolof

Results relate only to the items tested. Results apply to samples as received.

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FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

		SAMPLE DESCRIPTION:		Trip Blank
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-03-26
Parameter	Unit	G / S	RDL	6616646
Bromoform	µg/L	5	0.10	<0.10
Styrene	µg/L	0.5	0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.10	<0.10
o-Xylene	µg/L		0.10	<0.10
1,3-Dichlorobenzene	µg/L	0.5	0.10	<0.10
1,4-Dichlorobenzene	µg/L	0.5	0.10	<0.10
1,2-Dichlorobenzene	µg/L	0.5	0.10	<0.10
1,3-Dichloropropene	µg/L	0.5	0.30	<0.30
Xylenes (Total)	µg/L	72	0.20	<0.20
n-Hexane	µg/L	5	0.20	<0.20
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140		98
4-Bromofluorobenzene	% Recovery	50-140		101

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6616646 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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CANADA L4Z 1Y2
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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

SAMPLE DESCRIPTION:				MW25-06-GW20250326	DUP02	MW15-03-GW20250326
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-26 09:20	2025-03-26 09:20	2025-03-26 15:30
Parameter	Unit	G / S	RDL	6616647	6616648	6616652
Dichlorodifluoromethane	µg/L	590	0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	0.5	0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	0.89	0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40	<0.40	<0.40	<0.40
Acetone	µg/L	2700	1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	0.5	0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	5	0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	15	0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	0.5	0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	400	1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	230
Chloroform	µg/L	2	0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5	0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	0.5	0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	0.2	0.20	<0.20	<0.20	<0.20
Benzene	µg/L	0.5	0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.5	0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	0.5	0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	2	0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	0.5	0.20	<0.20	<0.20	<0.20
Toluene	µg/L	0.8	0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	2	0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.2	0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	0.5	0.20	1.21	1.12	188
1,1,1,2-Tetrachloroethane	µg/L	1.1	0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	0.5	0.10	<0.10	<0.10	<0.10

Certified By: N Popnikolof

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

				SAMPLE DESCRIPTION:	MW25-06-GW20250326	DUP02	MW15-03-GW20250326
				SAMPLE TYPE:	Water	Water	Water
				DATE SAMPLED:	2025-03-26 09:20	2025-03-26 09:20	2025-03-26 15:30
Parameter	Unit	G / S	RDL		6616647	6616648	6616652
Ethylbenzene	µg/L	0.5	0.10		<0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20		<0.20	<0.20	<0.20
Bromoform	µg/L	5	0.10		<0.10	<0.10	<0.10
Styrene	µg/L	0.5	0.10		<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.10		<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10		<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	0.5	0.10		<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	0.5	0.10		<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	0.5	0.10		<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	0.5	0.30		<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	72	0.20		<0.20	<0.20	<0.20
n-Hexane	µg/L	5	0.20		<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	50-140			103	96	107
4-Bromofluorobenzene	% Recovery	50-140			90	98	85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6616647-6616652 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopnikolof

Results relate only to the items tested. Results apply to samples as received.

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

PCBs (Aroclors) - Water

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

SAMPLE DESCRIPTION:				MW25-06-GW20250326	DUP02
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-03-26 09:20	2025-03-26 09:20
Parameter	Unit	G / S	RDL	6616647	6616648
Aroclor 1242	µg/L		0.1	<0.1	<0.1
Aroclor 1248	µg/L		0.1	<0.1	<0.1
Aroclor 1254	µg/L		0.1	<0.1	<0.1
Aroclor 1260	µg/L		0.1	<0.1	<0.1
PCBs	µg/L	0.2	0.1	<0.1	<0.1
PCB Extr	NA			Y	Y
Surrogate	Unit	Acceptable Limits			
Decachlorobiphenyl	%	50-140		118	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6616647-6616648 PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopnikolof

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

Mercury Analysis in Water (Total)

DATE RECEIVED: 2025-03-26

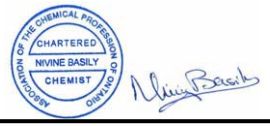
DATE REPORTED: 2025-04-07

SAMPLE DESCRIPTION:				MW25-06-GW20250326	DUP02	MW15-03-GW20250326
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-26 09:20	2025-03-26 09:20	2025-03-26 15:30
Parameter	Unit	G / S	RDL	6616647	6616648	6616652
Total Mercury	ug/L		0.026	<0.026	<0.026	<0.026

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

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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CANADA L4Z 1Y2
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FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

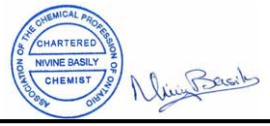
O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

SAMPLE DESCRIPTION:				MW25-06-GW20250326	DUP02		MW15-03-GW20250326
SAMPLE TYPE:				Water	Water		Water
DATE SAMPLED:				2025-03-26 09:20	2025-03-26 09:20		2025-03-26 15:30
Parameter	Unit	G / S	RDL	6616647	6616648	RDL	6616652
Dissolved Antimony	µg/L	1.5	5.0	<5.0	<5.0	5.0	<5.0
Dissolved Arsenic	µg/L	13	5.0	<5.0	<5.0	5.0	<5.0
Dissolved Barium	µg/L	610	10.0	816	795	10.0	208
Dissolved Beryllium	µg/L	0.5	2.00	<2.00	<2.00	2.00	<2.00
Dissolved Boron	µg/L	1700	12.0	101	95.0	12.0	186
Dissolved Cadmium	µg/L	0.5	1.00	<1.00	<1.00	1.00	<1.00
Dissolved Chromium	µg/L	11	3.5	<3.5	3.9	3.5	<3.5
Dissolved Cobalt	µg/L	3.8	2.50	3.96	4.26	2.50	<2.50
Dissolved Copper	µg/L	5	5.0	<5.0	<5.0	5.0	<5.0
Dissolved Lead	µg/L	1.9	0.50	<0.50	<0.50	0.50	<0.50
Dissolved Molybdenum	µg/L	23	2.50	3.09	3.50	2.50	<2.50
Dissolved Nickel	µg/L	14	5.0	19.7	19.6	5.0	<5.0
Dissolved Selenium	µg/L	5	5.0	<5.0	<5.0	5.0	<5.0
Dissolved Silver	µg/L	0.3	1.00	<1.00	<1.00	1.00	<1.00
Dissolved Thallium	µg/L	0.5	1.50	<1.50	<1.50	1.50	<1.50
Dissolved Uranium	µg/L	8.9	2.50	7.76	7.32	2.50	<2.50
Dissolved Vanadium	µg/L	3.9	2.00	2.22	<2.00	2.00	<2.00
Dissolved Zinc	µg/L	160	25.0	<25.0	<25.0	25.0	<25.0
Chromium VI	µg/L	25	2.000	<2.000	<2.000	2.000	<2.000
Cyanide, WAD	µg/L	5	2	<2	<2	2	<2
Dissolved Sodium	µg/L	490000	1000	2780000	2790000	250	403000
Chloride	µg/L	790000	244	5930000	5940000	122	1390000
pH	pH Units		NA	7.54	7.69	NA	7.79
Lab Filtration Performed				Y	Y		Y

Certified By:



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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2025-03-26

DATE REPORTED: 2025-04-07

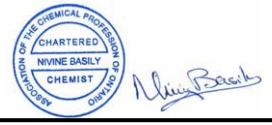
Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6616647-6616652 Metals analysis completed on a lab filtered sample.

Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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CANADA L4Z 1Y2
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Exceedance Summary

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6616647	MW25-06-GW20250326	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Chloride	µg/L	790000	5930000
6616647	MW25-06-GW20250326	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Dissolved Barium	µg/L	610	816
6616647	MW25-06-GW20250326	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Dissolved Cobalt	µg/L	3.8	3.96
6616647	MW25-06-GW20250326	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Dissolved Nickel	µg/L	14	19.7
6616647	MW25-06-GW20250326	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Dissolved Sodium	µg/L	490000	2780000
6616647	MW25-06-GW20250326	ON T1 GW	O. Reg. 153(511) - VOCs (with PHC) (Water)	Tetrachloroethylene	µg/L	0.5	1.21
6616648	DUP02	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Chloride	µg/L	790000	5940000
6616648	DUP02	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Dissolved Barium	µg/L	610	795
6616648	DUP02	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Dissolved Cobalt	µg/L	3.8	4.26
6616648	DUP02	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Dissolved Nickel	µg/L	14	19.6
6616648	DUP02	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Dissolved Sodium	µg/L	490000	2790000
6616648	DUP02	ON T1 GW	O. Reg. 153(511) - VOCs (with PHC) (Water)	Tetrachloroethylene	µg/L	0.5	1.12
6616652	MW15-03-GW20250326	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered	Chloride	µg/L	790000	1390000
6616652	MW15-03-GW20250326	ON T1 GW	O. Reg. 153(511) - VOCs (with PHC) (Water)	Tetrachloroethylene	µg/L	0.5	188
6616652	MW15-03-GW20250326	ON T1 GW	O. Reg. 153(511) - VOCs (with PHC) (Water)	cis- 1,2-Dichloroethylene	µg/L	1.6	230

Results relate only to the items tested. Results apply to samples as received.

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Apr 07, 2025

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - VOCs (Water)															
Dichlorodifluoromethane	6601806		< 0.40	< 0.40	NA	< 0.40	98%	50%	140%	105%	50%	140%	90%	50%	140%
Vinyl Chloride	6601806		< 0.17	< 0.17	NA	< 0.17	98%	50%	140%	89%	50%	140%	96%	50%	140%
Bromomethane	6601806		< 0.20	< 0.20	NA	< 0.20	80%	50%	140%	85%	50%	140%	98%	50%	140%
Trichlorofluoromethane	6601806		< 0.40	< 0.40	NA	< 0.40	98%	50%	140%	98%	50%	140%	90%	50%	140%
Acetone	6601806		< 1.0	< 1.0	NA	< 1.0	89%	50%	140%	90%	50%	140%	98%	50%	140%
1,1-Dichloroethylene	6601806		< 0.30	< 0.30	NA	< 0.30	89%	50%	140%	101%	60%	130%	98%	50%	140%
Methylene Chloride	6601806		< 0.30	< 0.30	NA	< 0.30	61%	50%	140%	73%	60%	130%	81%	50%	140%
trans- 1,2-Dichloroethylene	6601806		< 0.20	< 0.20	NA	< 0.20	90%	50%	140%	105%	60%	130%	90%	50%	140%
Methyl tert-butyl ether	6601806		< 0.20	< 0.20	NA	< 0.20	98%	50%	140%	98%	60%	130%	93%	50%	140%
1,1-Dichloroethane	6601806		< 0.30	< 0.30	NA	< 0.30	85%	50%	140%	89%	60%	130%	90%	50%	140%
Methyl Ethyl Ketone	6601806		< 1.0	< 1.0	NA	< 1.0	90%	50%	140%	85%	50%	140%	98%	50%	140%
cis- 1,2-Dichloroethylene	6601806		< 0.20	< 0.20	NA	< 0.20	98%	50%	140%	90%	60%	130%	85%	50%	140%
Chloroform	6601806		< 0.20	< 0.20	NA	< 0.20	64%	50%	140%	98%	60%	130%	90%	50%	140%
1,2-Dichloroethane	6601806		< 0.20	< 0.20	NA	< 0.20	105%	50%	140%	85%	60%	130%	98%	50%	140%
1,1,1-Trichloroethane	6601806		< 0.30	< 0.30	NA	< 0.30	98%	50%	140%	105%	60%	130%	85%	50%	140%
Carbon Tetrachloride	6601806		< 0.20	< 0.20	NA	< 0.20	89%	50%	140%	98%	60%	130%	105%	50%	140%
Benzene	6601806		< 0.20	< 0.20	NA	< 0.20	85%	50%	140%	89%	60%	130%	98%	50%	140%
1,2-Dichloropropane	6601806		< 0.20	< 0.20	NA	< 0.20	90%	50%	140%	85%	60%	130%	89%	50%	140%
Trichloroethylene	6601806		< 0.20	< 0.20	NA	< 0.20	98%	50%	140%	90%	60%	130%	85%	50%	140%
Bromodichloromethane	6601806		< 0.20	< 0.20	NA	< 0.20	85%	50%	140%	85%	60%	130%	90%	50%	140%
Methyl Isobutyl Ketone	6601806		< 1.0	< 1.0	NA	< 1.0	98%	50%	140%	105%	50%	140%	80%	50%	140%
1,1,2-Trichloroethane	6601806		< 0.20	< 0.20	NA	< 0.20	90%	50%	140%	89%	60%	130%	98%	50%	140%
Toluene	6601806		< 0.20	< 0.20	NA	< 0.20	98%	50%	140%	85%	60%	130%	85%	50%	140%
Dibromochloromethane	6601806		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	98%	60%	130%	98%	50%	140%
Ethylene Dibromide	6601806		< 0.10	< 0.10	NA	< 0.10	85%	50%	140%	90%	60%	130%	89%	50%	140%
Tetrachloroethylene	6601806		< 0.20	< 0.20	NA	< 0.20	90%	50%	140%	105%	60%	130%	85%	50%	140%
1,1,1,2-Tetrachloroethane	6601806		< 0.10	< 0.10	NA	< 0.10	105%	50%	140%	98%	60%	130%	90%	50%	140%
Chlorobenzene	6601806		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	89%	60%	130%	98%	50%	140%
Ethylbenzene	6601806		< 0.10	< 0.10	NA	< 0.10	89%	50%	140%	85%	60%	130%	105%	50%	140%
m & p-Xylene	6601806		< 0.20	< 0.20	NA	< 0.20	85%	50%	140%	90%	60%	130%	100%	50%	140%
Bromoform	6601806		< 0.10	< 0.10	NA	< 0.10	90%	50%	140%	98%	60%	130%	98%	50%	140%
Styrene	6601806		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	82%	60%	130%	89%	50%	140%
1,1,2,2-Tetrachloroethane	6601806		< 0.10	< 0.10	NA	< 0.10	61%	50%	140%	94%	60%	130%	85%	50%	140%
o-Xylene	6601806		< 0.10	< 0.10	NA	< 0.10	73%	50%	140%	98%	60%	130%	90%	50%	140%
1,3-Dichlorobenzene	6601806		< 0.10	< 0.10	NA	< 0.10	105%	50%	140%	89%	60%	130%	98%	50%	140%
1,4-Dichlorobenzene	6601806		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	90%	60%	130%	85%	50%	140%
1,2-Dichlorobenzene	6601806		< 0.10	< 0.10	NA	< 0.10	89%	50%	140%	111%	60%	130%	80%	50%	140%
n-Hexane	6601806		< 0.20	< 0.20	NA	< 0.20		50%	140%	98%	60%	130%	98%	50%	140%

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Apr 07, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	6613013		<0.20	<0.20	NA	< 0.20	119%	50%	140%	120%	50%	140%	87%	50%	140%
Acenaphthylene	6613013		<0.20	<0.20	NA	< 0.20	110%	50%	140%	112%	50%	140%	81%	50%	140%
Acenaphthene	6613013		<0.20	<0.20	NA	< 0.20	108%	50%	140%	109%	50%	140%	91%	50%	140%
Fluorene	6613013		<0.20	<0.20	NA	< 0.20	110%	50%	140%	116%	50%	140%	94%	50%	140%
Phenanthrene	6613013		<0.10	<0.10	NA	< 0.10	111%	50%	140%	117%	50%	140%	101%	50%	140%
Anthracene	6613013		<0.10	<0.10	NA	< 0.10	104%	50%	140%	76%	50%	140%	81%	50%	140%
Fluoranthene	6613013		<0.20	<0.20	NA	< 0.20	107%	50%	140%	117%	50%	140%	95%	50%	140%
Pyrene	6613013		<0.20	<0.20	NA	< 0.20	101%	50%	140%	114%	50%	140%	96%	50%	140%
Benzo(a)anthracene	6613013		<0.20	<0.20	NA	< 0.20	71%	50%	140%	83%	50%	140%	75%	50%	140%
Chrysene	6613013		<0.10	<0.10	NA	< 0.10	107%	50%	140%	104%	50%	140%	87%	50%	140%
Benzo(b)fluoranthene	6613013		<0.10	<0.10	NA	< 0.10	75%	50%	140%	82%	50%	140%	100%	50%	140%
Benzo(k)fluoranthene	6613013		<0.10	<0.10	NA	< 0.10	111%	50%	140%	111%	50%	140%	105%	50%	140%
Benzo(a)pyrene	6613013		<0.01	<0.01	NA	< 0.01	75%	50%	140%	71%	50%	140%	115%	50%	140%
Indeno(1,2,3-cd)pyrene	6613013		<0.20	<0.20	NA	< 0.20	107%	50%	140%	83%	50%	140%	100%	50%	140%
Dibenz(a,h)anthracene	6613013		<0.20	<0.20	NA	< 0.20	75%	50%	140%	85%	50%	140%	84%	50%	140%
Benzo(g,h,i)perylene	6613013		<0.20	<0.20	NA	< 0.20	75%	50%	140%	76%	50%	140%	82%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F2 (C10 to C16)	6614466		548	526	4.1%	< 100	106%	60%	140%	66%	60%	140%	64%	60%	140%
F3 (C16 to C34)	6614466		< 100	< 100	NA	< 100	106%	60%	140%	71%	60%	140%	62%	60%	140%
F4 (C34 to C50)	6614466		< 100	< 100	NA	< 100	85%	60%	140%	75%	60%	140%	82%	60%	140%
PCBs (Aroclors) - Water															
Aroclor 1242	6618477		< 0.1	< 0.1	NA	< 0.1	104%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1248	6618477		< 0.1	< 0.1	NA	< 0.1	102%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1254	6618477		< 0.1	< 0.1	NA	< 0.1	98%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1260	6618477		< 0.1	< 0.1	NA	< 0.1	104%	50%	140%	NA	50%	140%	NA	50%	140%
PCBs	6618477		< 0.1	< 0.1	NA	< 0.1	107%	50%	140%	107%	50%	140%	94%	50%	140%

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

Certified By: N Popowich

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z264766
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:
SAMPLED BY:

Water Analysis

RPT Date: Apr 07, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water) - Lab Filtered															
Dissolved Antimony	6609206		<1.0	<1.0	NA	< 1.0	105%	70%	130%	108%	80%	120%	109%	70%	130%
Dissolved Arsenic	6609206		<1.0	<1.0	NA	< 1.0	100%	70%	130%	106%	80%	120%	106%	70%	130%
Dissolved Barium	6609206		249	250	0.4%	< 2.0	102%	70%	130%	105%	80%	120%	111%	70%	130%
Dissolved Beryllium	6609206		<0.50	<0.50	NA	< 0.50	102%	70%	130%	105%	80%	120%	103%	70%	130%
Dissolved Boron	6609206		81.8	76.9	6.2%	< 10.0	101%	70%	130%	102%	80%	120%	97%	70%	130%
Dissolved Cadmium	6609206		<0.20	<0.20	NA	< 0.20	102%	70%	130%	110%	80%	120%	103%	70%	130%
Dissolved Chromium	6609206		3.6	3.3	NA	< 2.0	104%	70%	130%	108%	80%	120%	115%	70%	130%
Dissolved Cobalt	6609206		<0.50	<0.50	NA	< 0.50	104%	70%	130%	107%	80%	120%	111%	70%	130%
Dissolved Copper	6609206		1.2	1.2	NA	< 1.0	101%	70%	130%	103%	80%	120%	104%	70%	130%
Dissolved Lead	6609206		0.57	0.66	NA	< 0.50	106%	70%	130%	102%	80%	120%	93%	70%	130%
Dissolved Molybdenum	6609206		<0.50	<0.50	NA	< 0.50	105%	70%	130%	112%	80%	120%	117%	70%	130%
Dissolved Nickel	6609206		1.3	3.0	NA	< 1.0	102%	70%	130%	104%	80%	120%	106%	70%	130%
Dissolved Selenium	6609206		1.3	<1.0	NA	< 1.0	101%	70%	130%	102%	80%	120%	104%	70%	130%
Dissolved Silver	6609206		<0.20	<0.20	NA	< 0.20	100%	70%	130%	100%	80%	120%	100%	70%	130%
Dissolved Thallium	6609206		<0.30	<0.30	NA	< 0.30	104%	70%	130%	101%	80%	120%	101%	70%	130%
Dissolved Uranium	6609206		0.50	<0.50	NA	< 0.50	107%	70%	130%	109%	80%	120%	108%	70%	130%
Dissolved Vanadium	6609206		0.71	0.67	NA	< 0.40	105%	70%	130%	114%	80%	120%	123%	70%	130%
Dissolved Zinc	6609206		<5.0	<5.0	NA	< 5.0	103%	70%	130%	110%	80%	120%	114%	70%	130%
Chromium VI	6616647	6616647	<2.000	<2.000	NA	< 2	100%	70%	130%	105%	80%	120%	100%	70%	130%
Cyanide, WAD	6616647	6616647	<2	<2	NA	< 2	108%	70%	130%	104%	80%	120%	97%	70%	130%
Dissolved Sodium	6609206		432000	441000	2.1%	< 50	104%	70%	130%	103%	80%	120%	99%	70%	130%
Chloride	6617063		111000	110000	0.9%	< 100	97%	70%	130%	99%	80%	120%	104%	70%	130%
pH	6617278		7.22	7.15	1.0%	NA	100%	90%	110%						

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

Mercury Analysis in Water (Total)															
Total Mercury	6619875		<0.026	<0.026	NA	< 0.026	95%	80%	120%	97%	80%	120%	98%	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By:

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

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

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

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PROJECT: TR1363B

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SAMPLING SITE:

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Aroclor 1242	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1248	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1254	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1260	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
PCBs	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Decachlorobiphenyl	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
PCB Extr	ORG-91-5112	EPA SW-846 3510 & 8082	N/A

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z264766

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Total Mercury	MET-121-6107	SM 3112 B	CV/AA
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Dissolved Sodium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP/MS
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE
Lab Filtration Performed			FILTRATION

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416 916 6665 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Project Information:

Project: TR13635B
Site Location: 1309 Carling Ave, Ottawa ON
Sampled By: Hadiqa Butt
AGAT Quote #: 342146085949 PO: TR13635B-6501
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☒ Coarse
☐ Fine

☐ Regulation 406
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
_____ *Indicate One*

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

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

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 25726047666
Cooler Quantity: One - bag of ice.
Arrival Temperatures: 4.5 | 4.9 | 5.0
Depot Temperatures: 9.9 | 9.4 | 9.6
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: BI

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - CrVI, Hg, HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach	O. Reg 406: Landfill Disposal Characterization TCLP	O. Reg 558	Corrosivity: Moisture, Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TCLP	20251031126	- AM PM	3	GW						X										
2. MW25-06-GW20250326	25/03/26	9:20 AM PM	18	GW			X	X	X	X	X	X								
3. DUP02	25/03/26	9:20 AM PM	18	GW			X	X	X	X	X	X								
4. MW15-03-GW20250326	25/03/26	15:30 AM PM	17	GW			X	X	X	X	X	X								
5.		AM PM																		
6.		AM PM																		
7.		AM PM																		
8.		AM PM																		
9.		AM PM																		
10.		AM PM																		
11.		AM PM			COMMENT: Please send esdat format EDDs to esdat+geosyntec@esdatlabsync.net															

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Hadiqa Butt	20251031126	17:00 PM	C. Cuthbertson	03/26/25	16h55
CC to Dup	03/26/25	19:00	Mer 28	9 Mar	

Page 1 of 1

N°: T - 167744

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

Document ID: DW-78-1511-024
Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document.
Date Issued: Aug 29, 2024

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z265051

ROCK ANALYSIS REVIEWED BY: Jewel Shibu, Lab Supervisor

SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Apr 09, 2025

PAGES (INCLUDING COVER): 24

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

(284-137) Sulfide (CGY)

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

				SAMPLE DESCRIPTION:	25-04-SS5_7-9
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-03-25 23:00
Parameter	Unit	G / S	RDL	6626398	
Sulfide	%		0.01	<0.01	

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

6626398 Sulfide is a calculated parameter and is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:

Jewel Shibu

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CALGARY, ALBERTA
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FAX (403)735-2771
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Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

Corrosivity Package

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

			SAMPLE DESCRIPTION:	25-04-SS5_7-9
			SAMPLE TYPE:	Soil
			DATE SAMPLED:	2025-03-25 23:00
Parameter	Unit	G / S	RDL	6626398
Chloride (2:1)	µg/g	NA	2	13
Sulphate (2:1)	µg/g		2	37
pH (2:1)	pH Units		NA	8.67
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.172
Resistivity (2:1) (Calculated)	ohm.cm		1	5810
Redox Potential 1	mV		NA	180
Redox Potential 2	mV		NA	171
Redox Potential 3	mV		NA	173

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6626398 EC, pH, Chloride and Sulphate were determined on the extract obtained from the 2:1 leaching procedure (2 parts DI water: 1 part soil). Resistivity is a calculated parameter.
Redox potential measured on as received sample. Due to the potential for rapid change in sample equilibrium chemistry with exposure to oxidative/reduction conditions laboratory results may differ from field measured results.
Redox potential measurement in soil is quite variable and non reproducible due in part, to the general heterogeneity of a given soil. It is also related to the introduction of increased oxygen into the sample after extraction. The interpretation of soil redox potential should be considered in terms of its general range rather than as an absolute measurement.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Results relate only to the items tested. Results apply to samples as received.

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CALGARY, ALBERTA
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FAX (403)735-2771
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Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

SAMPLE DESCRIPTION:				25-04-SS1_0.5-1	25-04-SS3_3-5	25-05-SS1_1-1.5	25-05-SS3_3.5-5.5
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-25 13:55	2025-03-25 14:05	2025-03-27 00:55	2025-03-27 13:05
Parameter	Unit	G / S	RDL	6626377	6626383	6626399	6626400
Antimony	µg/g	40	0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	2	3	3
Barium	µg/g	670	2.0	93.5	207	204	378
Beryllium	µg/g	8	0.5	<0.5	0.5	0.6	0.8
Boron	µg/g	120	5	9	5	7	6
Boron (Hot Water Soluble)	µg/g	2	0.10	0.18	0.15	<0.10	<0.10
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	21	74	70	136
Cobalt	µg/g	80	0.8	82.4	14.3	16.8	23.5
Copper	µg/g	230	1.0	37.7	28.6	29.4	45.7
Lead	µg/g	120	1	12	8	49	10
Molybdenum	µg/g	40	0.5	0.7	1.2	0.6	<0.5
Nickel	µg/g	270	1	18	38	38	66
Selenium	µg/g	5.5	0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	40	0.5	1.4	<0.5	<0.5	<0.5
Thallium	µg/g	3.3	0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	33	0.50	0.77	0.76	0.90	1.11
Vanadium	µg/g	86	2.0	30.1	65.8	61.4	100.3
Zinc	µg/g	340	5	34	69	71	118
Chromium, Hexavalent	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	3.9	0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.369	0.249	0.197	0.079
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	3.3	2.0	2.5	0.72
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	10.6	7.07	8.73	6.90

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6626377-6626400 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CALGARY, ALBERTA
CANADA T2E 7P7
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Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

Moisture Content (Soil)

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

			SAMPLE DESCRIPTION:	25-04-SS5_7-9
			SAMPLE TYPE:	Soil
			DATE SAMPLED:	2025-03-25 23:00
Parameter	Unit	G / S	RDL	6626398
Moisture Content	%		0.1	19.5

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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FAX (403)735-2771
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Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

SAMPLE DESCRIPTION:				25-04-SS1_0.5-1	25-04-SS3_3-5	25-05-SS1_1-1.5	25-05-SS3_3.5-5.5
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-25 13:55	2025-03-25 14:05	2025-03-27 00:55	2025-03-27 13:05
Parameter	Unit	G / S	RDL	6626377	6626383	6626399	6626400
Naphthalene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	12	0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.3	11.4	12.3	8.4
Surrogate	Unit	Acceptable Limits					
Naphthalene-d8	%	50-140		80	85	75	70
Acridine-d9	%	50-140		70	90	95	80
Terphenyl-d14	%	50-140		100	110	100	115

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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TEL (403)735-2005
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Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6626377-6626400 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT Laboratories
2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

SAMPLE DESCRIPTION:				25-05-SS1_1-1.5	25-05-SS3_3.5-5.5
SAMPLE TYPE:				Soil	Soil
DATE SAMPLED:				2025-03-27 00:55	2025-03-27 13:05
Parameter	Unit	G / S	RDL	6626399	6626400
Polychlorinated Biphenyls	µg/g		0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits			
Decachlorobiphenyl	%	50-140		80	92

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

6626399-6626400 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

SAMPLE DESCRIPTION:				25-04-SS1_0.5-1	25-04-SS3_3-5	25-05-SS1_1-1.5	25-05-SS3_3.5-5.5
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-25 13:55	2025-03-25 14:05	2025-03-27 00:55	2025-03-27 13:05
Parameter	Unit	G / S	RDL	6626377	6626383	6626399	6626400
F1 (C6 to C10)	µg/g	55	5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	230	10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1700	50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	3300	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	3300	50	NA	NA	NA	NA
Surrogate	Unit	Acceptable Limits					
Toluene-d8	%	50-140		121	110	111	109
Terphenyl	%	60-140		92	88	90	93

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6626377-6626400 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

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Certificate of Analysis

AGAT WORK ORDER: 25Z265051
PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS
SAMPLING SITE:1309 Carling Ave, Ottawa, ON

ATTENTION TO: Kevin Kim
SAMPLED BY:Tristan K.

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

SAMPLE DESCRIPTION:				25-04-SS1_0.5-1	25-04-SS3_3-5	25-05-SS1_1-1.5	25-05-SS3_3.5-5.5
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-25 13:55	2025-03-25 14:05	2025-03-27 00:55	2025-03-27 13:05
Parameter	Unit	G / S	RDL	6626377	6626383	6626399	6626400
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.032	0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.064	0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	1.3	0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	11	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	17	0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	70	0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	55	0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.47	0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	6.1	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.21	0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.32	0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.16	0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.91	0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	31	0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	68	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	4.5	0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.087	0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05	<0.05

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-09

SAMPLE DESCRIPTION:				25-04-SS1_0.5-1	25-04-SS3_3-5	25-05-SS1_1-1.5	25-05-SS3_3.5-5.5
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				2025-03-25 13:55	2025-03-25 14:05	2025-03-27 00:55	2025-03-27 13:05
Parameter	Unit	G / S	RDL	6626377	6626383	6626399	6626400
Ethylbenzene	ug/g	9.5	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.61	0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	34	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	6.8	0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	26	0.05	0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.18	0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	46	0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	50-140		121	110	111	109
4-Bromofluorobenzene	% Recovery	50-140		88	88	88	89

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6626377-6626400 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Exceedance Summary

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6626377	25-04-SS1_0.5-1	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Cobalt	µg/g	80	82.4
6626377	25-04-SS1_0.5-1	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	10.6
6626400	25-05-SS3_3.5-5.5	ON T3 S ICC CT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	100.3

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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

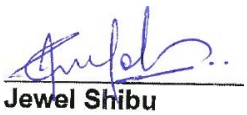
SAMPLED BY:Tristan K.

Rock Analysis

RPT Date: Apr 09, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
(284-137) Sulfide (CGY)															
Total Sulfur	6626398	6626398	<0.01	0.01	NA	< 0.01	100%	80%	120%						
Sulfate	6622014	6622014	0.02	0.02	2.0%	< 0.01	96%	80%	120%						

Comments: RPDs are calculated using raw analytical data and not the rounded duplicate values reported.
Duplicate/ Replicate NA: Results are less than 10X the RDL and RPD will not be calculated

Certified By:



Jewel Shibu

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AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B
ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan K.

Soil Analysis

RPT Date: Apr 09, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6622626		<0.8	<0.8	NA	< 0.8	108%	70%	130%	92%	80%	120%	100%	70%	130%
Arsenic	6622626		6	6	0.0%	< 1	104%	70%	130%	98%	80%	120%	92%	70%	130%
Barium	6622626		232	239	3.0%	< 2.0	106%	70%	130%	105%	80%	120%	NA	70%	130%
Beryllium	6622626		1.2	1.1	NA	< 0.5	87%	70%	130%	84%	80%	120%	77%	70%	130%
Boron	6622626		12	12	NA	< 5	77%	70%	130%	90%	80%	120%	75%	70%	130%
Boron (Hot Water Soluble)	6620459		0.25	0.26	NA	< 0.10	110%	60%	140%	98%	70%	130%	101%	60%	140%
Cadmium	6622626		<0.5	<0.5	NA	< 0.5	105%	70%	130%	101%	80%	120%	106%	70%	130%
Chromium	6622626		37	36	2.7%	< 5	103%	70%	130%	107%	80%	120%	NA	70%	130%
Cobalt	6622626		15.6	15.5	0.6%	< 0.8	94%	70%	130%	103%	80%	120%	98%	70%	130%
Copper	6622626		25.9	26.4	1.9%	< 1.0	93%	70%	130%	109%	80%	120%	NA	70%	130%
Lead	6622626		13	14	7.4%	< 1	109%	70%	130%	116%	80%	120%	121%	70%	130%
Molybdenum	6622626		0.6	0.6	NA	< 0.5	108%	70%	130%	103%	80%	120%	104%	70%	130%
Nickel	6622626		34	35	2.9%	< 1	96%	70%	130%	103%	80%	120%	96%	70%	130%
Selenium	6622626		<0.8	<0.8	NA	< 0.8	95%	70%	130%	105%	80%	120%	106%	70%	130%
Silver	6622626		<0.5	<0.5	NA	< 0.5	100%	70%	130%	100%	80%	120%	104%	70%	130%
Thallium	6622626		<0.5	<0.5	NA	< 0.5	101%	70%	130%	104%	80%	120%	105%	70%	130%
Uranium	6622626		0.88	0.91	NA	< 0.50	103%	70%	130%	103%	80%	120%	112%	70%	130%
Vanadium	6622626		49.1	50.1	2.0%	< 2.0	101%	70%	130%	103%	80%	120%	109%	70%	130%
Zinc	6622626		78	78	0.0%	< 5	100%	70%	130%	102%	80%	120%	NA	70%	130%
Chromium, Hexavalent	6629848		<0.2	<0.2	NA	< 0.2	101%	70%	130%	89%	80%	120%	71%	70%	130%
Cyanide, WAD	6618712		<0.040	<0.040	NA	< 0.040	100%	70%	130%	95%	80%	120%	78%	70%	130%
Mercury	6622626		<0.10	<0.10	NA	< 0.10	108%	70%	130%	100%	80%	120%	99%	70%	130%
Electrical Conductivity (2:1)	6626398	6626398	0.172	0.164	4.8%	< 0.005	99%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6620717		2.9	2.8	3.5%	NA									
pH, 2:1 CaCl2 Extraction	6626377	6626377	9.97	10.20	2.3%	NA	98%	80%	120%						

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

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

Corrosivity Package															
Chloride (2:1)	6626398	6626398	13	13	1.2%	< 2	100%	70%	130%	101%	80%	120%	98%	70%	130%
Sulphate (2:1)	6626398	6626398	37	36	2.8%	< 2	105%	70%	130%	103%	80%	120%	101%	70%	130%
pH (2:1)	6626398	6626398	8.67	8.42	2.9%	NA	100%	80%	120%						
Electrical Conductivity (2:1)	6626398	6626398	0.172	0.164	5.3%	< 0.005	99%	80%	120%						
Redox Potential 1	6626398					NA	100%	90%	110%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

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Results relate only to the items tested. Results apply to samples as received.

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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265051
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan K.

Soil Analysis (Continued)

RPT Date: Apr 09, 2025			DUPLICATE				REFERENCE MATERIAL				METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Certified By:

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CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265051
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan K.

Trace Organics Analysis

RPT Date: Apr 09, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6619643		<5	<5	NA	< 5	101%	60%	140%	106%	60%	140%	94%	60%	140%
F2 (C10 to C16)	6619637		200	257	24.9%	< 10	102%	60%	140%	102%	60%	140%	99%	60%	140%
F3 (C16 to C34)	6619637		15900	19400	19.8%	< 50	109%	60%	140%	125%	60%	140%	125%	60%	140%
F4 (C34 to C50)	6619637		354	384	8.1%	< 50	77%	60%	140%	105%	60%	140%	101%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6619643		<0.05	<0.05	NA	< 0.05	97%	50%	140%	101%	50%	140%	104%	50%	140%
Vinyl Chloride	6619643		<0.02	<0.02	NA	< 0.02	110%	50%	140%	115%	50%	140%	108%	50%	140%
Bromomethane	6619643		<0.05	<0.05	NA	< 0.05	94%	50%	140%	110%	50%	140%	118%	50%	140%
Trichlorofluoromethane	6619643		<0.05	<0.05	NA	< 0.05	96%	50%	140%	87%	50%	140%	101%	50%	140%
Acetone	6619643		<0.50	<0.50	NA	< 0.50	100%	50%	140%	79%	50%	140%	89%	50%	140%
1,1-Dichloroethylene	6619643		<0.05	<0.05	NA	< 0.05	110%	50%	140%	95%	60%	130%	90%	50%	140%
Methylene Chloride	6619643		<0.05	<0.05	NA	< 0.05	110%	50%	140%	94%	60%	130%	99%	50%	140%
Trans- 1,2-Dichloroethylene	6619643		<0.05	<0.05	NA	< 0.05	105%	50%	140%	99%	60%	130%	94%	50%	140%
Methyl tert-butyl Ether	6619643		<0.05	<0.05	NA	< 0.05	99%	50%	140%	116%	60%	130%	98%	50%	140%
1,1-Dichloroethane	6619643		<0.02	<0.02	NA	< 0.02	108%	50%	140%	111%	60%	130%	104%	50%	140%
Methyl Ethyl Ketone	6619643		<0.50	<0.50	NA	< 0.50	109%	50%	140%	114%	50%	140%	101%	50%	140%
Cis- 1,2-Dichloroethylene	6619643		<0.02	<0.02	NA	< 0.02	115%	50%	140%	114%	60%	130%	108%	50%	140%
Chloroform	6619643		<0.04	<0.04	NA	< 0.04	101%	50%	140%	104%	60%	130%	94%	50%	140%
1,2-Dichloroethane	6619643		<0.03	<0.03	NA	< 0.03	74%	50%	140%	110%	60%	130%	99%	50%	140%
1,1,1-Trichloroethane	6619643		<0.05	<0.05	NA	< 0.05	117%	50%	140%	119%	60%	130%	104%	50%	140%
Carbon Tetrachloride	6619643		<0.05	<0.05	NA	< 0.05	100%	50%	140%	90%	60%	130%	107%	50%	140%
Benzene	6619643		<0.02	<0.02	NA	< 0.02	87%	50%	140%	119%	60%	130%	106%	50%	140%
1,2-Dichloropropane	6619643		<0.03	<0.03	NA	< 0.03	120%	50%	140%	97%	60%	130%	120%	50%	140%
Trichloroethylene	6619643		<0.03	<0.03	NA	< 0.03	119%	50%	140%	87%	60%	130%	111%	50%	140%
Bromodichloromethane	6619643		<0.05	<0.05	NA	< 0.05	116%	50%	140%	102%	60%	130%	114%	50%	140%
Methyl Isobutyl Ketone	6619643		<0.50	<0.50	NA	< 0.50	108%	50%	140%	103%	50%	140%	90%	50%	140%
1,1,2-Trichloroethane	6619643		<0.04	<0.04	NA	< 0.04	97%	50%	140%	93%	60%	130%	96%	50%	140%
Toluene	6619643		<0.05	<0.05	NA	< 0.05	103%	50%	140%	89%	60%	130%	110%	50%	140%
Dibromochloromethane	6619643		<0.05	<0.05	NA	< 0.05	86%	50%	140%	81%	60%	130%	85%	50%	140%
Ethylene Dibromide	6619643		<0.04	<0.04	NA	< 0.04	114%	50%	140%	91%	60%	130%	99%	50%	140%
Tetrachloroethylene	6619643		<0.05	<0.05	NA	< 0.05	110%	50%	140%	95%	60%	130%	95%	50%	140%
1,1,1,2-Tetrachloroethane	6619643		<0.04	<0.04	NA	< 0.04	95%	50%	140%	108%	60%	130%	102%	50%	140%
Chlorobenzene	6619643		<0.05	<0.05	NA	< 0.05	112%	50%	140%	110%	60%	130%	98%	50%	140%
Ethylbenzene	6619643		<0.05	<0.05	NA	< 0.05	102%	50%	140%	92%	60%	130%	113%	50%	140%
m & p-Xylene	6619643		<0.05	<0.05	NA	< 0.05	121%	50%	140%	120%	60%	130%	117%	50%	140%
Bromoform	6619643		<0.05	<0.05	NA	< 0.05	116%	50%	140%	78%	60%	130%	116%	50%	140%
Styrene	6619643		<0.05	<0.05	NA	< 0.05	113%	50%	140%	108%	60%	130%	103%	50%	140%
1,1,2,2-Tetrachloroethane	6619643		<0.05	<0.05	NA	< 0.05	82%	50%	140%	70%	60%	130%	112%	50%	140%
o-Xylene	6619643		<0.05	<0.05	NA	< 0.05	63%	50%	140%	63%	60%	130%	61%	50%	140%

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Quality Assurance

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AGAT WORK ORDER: 25Z265051
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Tristan K.

Trace Organics Analysis (Continued)

RPT Date: Apr 09, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	6619643		<0.05	<0.05	NA	< 0.05	108%	50%	140%	112%	60%	130%	101%	50%	140%
1,4-Dichlorobenzene	6619643		<0.05	<0.05	NA	< 0.05	106%	50%	140%	112%	60%	130%	97%	50%	140%
1,2-Dichlorobenzene	6619643		<0.05	<0.05	NA	< 0.05	99%	50%	140%	105%	60%	130%	88%	50%	140%
n-Hexane	6619643		<0.05	<0.05	NA	< 0.05	79%	50%	140%	72%	60%	130%	106%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6626400	6626400	<0.05	<0.05	NA	< 0.05	113%	50%	140%	105%	50%	140%	110%	50%	140%
Acenaphthylene	6626400	6626400	<0.05	<0.05	NA	< 0.05	111%	50%	140%	95%	50%	140%	90%	50%	140%
Acenaphthene	6626400	6626400	<0.05	<0.05	NA	< 0.05	109%	50%	140%	98%	50%	140%	100%	50%	140%
Fluorene	6626400	6626400	<0.05	<0.05	NA	< 0.05	115%	50%	140%	103%	50%	140%	98%	50%	140%
Phenanthrene	6626400	6626400	<0.05	<0.05	NA	< 0.05	114%	50%	140%	103%	50%	140%	100%	50%	140%
Anthracene	6626400	6626400	<0.05	<0.05	NA	< 0.05	110%	50%	140%	73%	50%	140%	85%	50%	140%
Fluoranthene	6626400	6626400	<0.05	<0.05	NA	< 0.05	118%	50%	140%	100%	50%	140%	95%	50%	140%
Pyrene	6626400	6626400	<0.05	<0.05	NA	< 0.05	112%	50%	140%	100%	50%	140%	95%	50%	140%
Benzo(a)anthracene	6626400	6626400	<0.05	<0.05	NA	< 0.05	101%	50%	140%	83%	50%	140%	73%	50%	140%
Chrysene	6626400	6626400	<0.05	<0.05	NA	< 0.05	100%	50%	140%	90%	50%	140%	90%	50%	140%
Benzo(b)fluoranthene	6626400	6626400	<0.05	<0.05	NA	< 0.05	114%	50%	140%	95%	50%	140%	80%	50%	140%
Benzo(k)fluoranthene	6626400	6626400	<0.05	<0.05	NA	< 0.05	99%	50%	140%	95%	50%	140%	110%	50%	140%
Benzo(a)pyrene	6626400	6626400	<0.05	<0.05	NA	< 0.05	105%	50%	140%	88%	50%	140%	78%	50%	140%
Indeno(1,2,3-cd)pyrene	6626400	6626400	<0.05	<0.05	NA	< 0.05	73%	50%	140%	80%	50%	140%	90%	50%	140%
Dibenz(a,h)anthracene	6626400	6626400	<0.05	<0.05	NA	< 0.05	102%	50%	140%	85%	50%	140%	73%	50%	140%
Benzo(g,h,i)perylene	6626400	6626400	<0.05	<0.05	NA	< 0.05	89%	50%	140%	83%	50%	140%	83%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6613713		< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	96%	50%	140%	96%	50%	140%

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

Certified By: R. Chakraborty

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Chloride (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Sulphate (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH (2:1)	INOR 93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Resistivity (2:1) (Calculated)	INOR-93-6036	McKeague 4.12, SM 2510 B,SSA #5 Part 3	CALCULATION
Redox Potential 1	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 2	INOR-93-6066	ASTM G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 3	INOR-93-6066	ASTM G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Moisture Content	ORG-91-5009	modified from CCME Tier 1 Method	BALANCE
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z265051

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Tristan K.

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

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 1572650SL

Cooler Quantity: One - Bagged ice

Arrival Temperatures: 2.5 | 2.1 | 2.6

Depot Temperatures: 4.6 | 4.4 | 4.0

Custody Seal Intact: ☐ Yes ☐ No ☒ N/A

Notes: B I

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Project Information:

Project: TRV363B
Site Location: 1309 Carling Ave, Ottawa ON
Sampled By: Tristan Kennedy
AGAT Quote #: 34216608442 PO: TRV363B-6501
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406
Table (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

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

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

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Legal Sample ☐

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CrVI, DOC	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☒ CrVI ☒ Hg ☒ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach	O. Reg 406: mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP:	O. Reg 558: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☒ Moisture ☒ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. 25-04-SS1_0.5-1	25/03/25	01:45 AM/PM	4	S		N		X	X	X	X	X									X	
2. 25-04-SS3_3-5	25/03/25	2:05 AM/PM	4	S		N		X	X	X	X	X										
3. 25-04-SS4_5-7	25/03/25	2:18 AM/PM	4	S	HOLD	N		X	X	X	X	X										
4. 25-04-SS5_7-9	25/03/25	23:00 AM/PM	1	S		N															X	
5. 25-05-SS1_1-1.5	27/03/25	00:55 AM/PM	4	S		N		X	X	X	X	X	X									
6. 25-05-SS3_3.5-5.5	27/03/25	1:05 AM/PM	4	S		N		X	X	X	X	X	X									
7. 25-05-SS8_18-18.5	28/03/25	11:25 AM/PM	4	S	HOLD	N		X	X	X	X	X	X									
8.																						
9.																						
10.																						
11.																						

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Tristan Kennedy, [signature]	28/03/25	11:45	V. Galea INC [signature]	25/03/28	12:44
CC to Dave	03/31/25	15h00	Tiffany	April 1	9 AM

Page ____ of ____

N°: T-156284

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

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AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR13432B

AGAT WORK ORDER: 25Z265059

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

DATE REPORTED: Apr 04, 2025

PAGES (INCLUDING COVER): 21

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

SAMPLE DESCRIPTION:				MW15-17-GW20250328	MW15-03A-GW20250328
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-03-28 09:30	2025-03-28 11:40
Parameter	Unit	G / S	RDL	6624607	6624747
Naphthalene	µg/L	1400	0.20	<0.20	<0.20
Acenaphthylene	µg/L	1.8	0.20	<0.20	<0.20
Acenaphthene	µg/L	600	0.20	<0.20	<0.20
Fluorene	µg/L	400	0.20	<0.20	<0.20
Phenanthrene	µg/L	580	0.10	<0.10	<0.10
Anthracene	µg/L	2.4	0.10	<0.10	<0.10
Fluoranthene	µg/L	130	0.20	<0.20	<0.20
Pyrene	µg/L	68	0.20	<0.20	<0.20
Benzo(a)anthracene	µg/L	4.7	0.20	<0.20	<0.20
Chrysene	µg/L	1	0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.75	0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.4	0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.81	0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.52	0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20
2-and 1-methyl Napthalene	µg/L	1800	0.20	<0.20	<0.20
Sediment				1	1
Surrogate	Unit	Acceptable Limits			
Naphthalene-d8	%	50-140		115	101
Acridine-d9	%	50-140		80	65
Terphenyl-d14	%	50-140		120	100

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

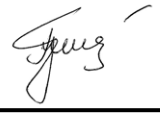
DATE REPORTED: 2025-04-04

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6624607-6624747 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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CANADA L4Z 1Y2
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Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

				MW15-17-GW20250328	MW15-03A-GW20250328
SAMPLE DESCRIPTION:					
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-03-28 09:30	2025-03-28 11:40
Parameter	Unit	G / S	RDL	6624607	6624747
Polychlorinated Biphenyls	µg/L	7.8	0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits			
Decachlorobiphenyl	%	60-140		102	105

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6624607-6624747 PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

				MW15-17-GW20250328	MW15-03A-GW20250328
SAMPLE DESCRIPTION:				MW15-17-GW20250328	MW15-03A-GW20250328
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-03-28 09:30	2025-03-28 11:40
Parameter	Unit	G / S	RDL	6624607	6624747
F1 (C6 to C10)	µg/L	750	25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L		100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA
Sediment				1	1
Surrogate	Unit	Acceptable Limits			
Toluene-d8	%	50-140		93	98
Terphenyl	% Recovery	60-140		80	82

Certified By:

Results relate only to the items tested. Results apply to samples as received.

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CANADA L4Z 1Y2
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Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6624607-6624747 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amounts

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

		SAMPLE DESCRIPTION:		Trip Blank
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-03-28
Parameter	Unit	G / S	RDL	6624748
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40
Vinyl Chloride	µg/L	0.5	0.17	<0.17
Bromomethane	µg/L	5.6	0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0
1,1-Dichloroethylene	µg/L	1.6	0.30	<0.30
Methylene Chloride	µg/L	610	0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20
Methyl tert-butyl ether	µg/L	190	0.20	<0.20
1,1-Dichloroethane	µg/L	320	0.30	<0.30
Methyl Ethyl Ketone	µg/L	470000	1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20
Chloroform	µg/L	2.4	0.20	<0.20
1,2-Dichloroethane	µg/L	1.6	0.20	<0.20
1,1,1-Trichloroethane	µg/L	640	0.30	<0.30
Carbon Tetrachloride	µg/L	0.79	0.20	<0.20
Benzene	µg/L	44	0.20	<0.20
1,2-Dichloropropane	µg/L	16	0.20	<0.20
Trichloroethylene	µg/L	1.6	0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20
Methyl Isobutyl Ketone	µg/L	140000	1.0	<1.0
1,1,2-Trichloroethane	µg/L	4.7	0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10
Ethylene Dibromide	µg/L	0.25	0.10	<0.10
Tetrachloroethylene	µg/L	1.6	0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

		SAMPLE DESCRIPTION:		Trip Blank
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-03-28
Parameter	Unit	G / S	RDL	6624748
Bromoform	µg/L	380	0.10	<0.10
Styrene	µg/L	1300	0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10
o-Xylene	µg/L		0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20	<0.20
n-Hexane	µg/L	51	0.20	<0.20
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140		98
4-Bromofluorobenzene	% Recovery	50-140		92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6624748 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

Parameter	Unit	G / S	RDL	SAMPLE DESCRIPTION: MW15-17-GW20250328	SAMPLE TYPE: Water	DATE SAMPLED: 2025-03-28 09:30	6624607	SAMPLE DESCRIPTION: MW15-03A-GW20250328	SAMPLE TYPE: Water	DATE SAMPLED: 2025-03-28 11:40	6624747
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40				<0.40			
Vinyl Chloride	µg/L	0.5	0.17	<0.17				<0.17			
Bromomethane	µg/L	5.6	0.20	<0.20				<0.20			
Trichlorofluoromethane	µg/L	2500	0.40	<0.40				<0.40			
Acetone	µg/L	130000	1.0	<1.0				<1.0			
1,1-Dichloroethylene	µg/L	1.6	0.30	<0.30				<0.30			
Methylene Chloride	µg/L	610	0.30	<0.30				<0.30			
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20				<0.20			
Methyl tert-butyl ether	µg/L	190	0.20	<0.20				<0.20			
1,1-Dichloroethane	µg/L	320	0.30	<0.30				<0.30			
Methyl Ethyl Ketone	µg/L	470000	1.0	<1.0				<1.0			
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20				<0.20			
Chloroform	µg/L	2.4	0.20	<0.20				<0.20			
1,2-Dichloroethane	µg/L	1.6	0.20	<0.20				<0.20			
1,1,1-Trichloroethane	µg/L	640	0.30	<0.30				<0.30			
Carbon Tetrachloride	µg/L	0.79	0.20	<0.20				<0.20			
Benzene	µg/L	44	0.20	<0.20				<0.20			
1,2-Dichloropropane	µg/L	16	0.20	<0.20				<0.20			
Trichloroethylene	µg/L	1.6	0.20	<0.20				<0.20			
Bromodichloromethane	µg/L	85000	0.20	<0.20				<0.20			
Methyl Isobutyl Ketone	µg/L	140000	1.0	<1.0				<1.0			
1,1,2-Trichloroethane	µg/L	4.7	0.20	<0.20				<0.20			
Toluene	µg/L	18000	0.20	<0.20				<0.20			
Dibromochloromethane	µg/L	82000	0.10	<0.10				<0.10			
Ethylene Dibromide	µg/L	0.25	0.10	<0.10				<0.10			
Tetrachloroethylene	µg/L	1.6	0.20	<0.20				<0.20			
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10	<0.10				<0.10			
Chlorobenzene	µg/L	630	0.10	<0.10				<0.10			

Certified By:

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

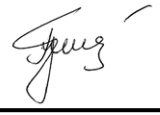
				MW15-17-GW20250328	MW15-03A-GW20250328
SAMPLE DESCRIPTION:					
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-03-28 09:30	2025-03-28 11:40
Parameter	Unit	G / S	RDL	6624607	6624747
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20	<0.20
Bromoform	µg/L	380	0.10	<0.10	<0.10
Styrene	µg/L	1300	0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20	<0.20	<0.20
n-Hexane	µg/L	51	0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits			
Toluene-d8	% Recovery	50-140		93	98
4-Bromofluorobenzene	% Recovery	50-140		100	93

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6624607-6624747 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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

Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

Mercury Analysis in Water (Dissolved)

DATE RECEIVED: 2025-03-28

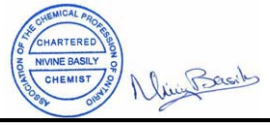
DATE REPORTED: 2025-04-04

				MW15-17-GW20250328	MW15-03A-GW20250328
SAMPLE DESCRIPTION:				MW15-17-GW20250328	MW15-03A-GW20250328
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-03-28 09:30	2025-03-28 11:40
Parameter	Unit	G / S	RDL	6624607	6624747
Dissolved Mercury	ug/L		0.026	<0.026	<0.026

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

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

SAMPLE DESCRIPTION:				MW15-17-GW20250328		MW15-03A-GW20250328
SAMPLE TYPE:				Water		Water
DATE SAMPLED:				2025-03-28 09:30		2025-03-28 11:40
Parameter	Unit	G / S	RDL	6624607	RDL	6624747
Dissolved Antimony	µg/L	20000	1.0	<1.0	1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	<1.0	1.0	<1.0
Dissolved Barium	µg/L	29000	2.0	48.3	2.0	177
Dissolved Beryllium	µg/L	67	0.50	<0.50	0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	182	10.0	224
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0	2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	<0.50	0.50	<0.50
Dissolved Copper	µg/L	87	1.0	1.1	1.0	<1.0
Dissolved Lead	µg/L	25	0.50	<0.50	0.50	0.61
Dissolved Molybdenum	µg/L	9200	0.50	30.9	0.50	6.66
Dissolved Nickel	µg/L	490	1.0	1.5	1.0	<1.0
Dissolved Selenium	µg/L	63	1.0	<1.0	1.0	<1.0
Dissolved Silver	µg/L	1.5	0.20	<0.20	0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30	0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	<0.50	0.50	<0.50
Dissolved Vanadium	µg/L	250	0.40	<0.40	0.40	<0.40
Dissolved Zinc	µg/L	1100	5.0	<5.0	5.0	<5.0
Chromium VI	µg/L	140	2.000	<2.000	2.000	<2.000
Cyanide, WAD	µg/L	66	2	<2	2	<2
Dissolved Sodium	µg/L	2300000	250	803000	50	174000
Chloride	µg/L	2300000	122	1670000	100	517000
pH	pH Units		NA	7.63	NA	7.69

Certified By:

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

Certificate of Analysis

AGAT WORK ORDER: 25Z265059

PROJECT: TR13432B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave

SAMPLED BY:Madiga Bult

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

DATE RECEIVED: 2025-03-28

DATE REPORTED: 2025-04-04

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

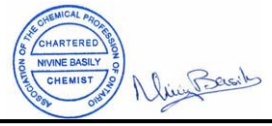
6624607 Metals analysis completed on a filtered sample.
pH is a recommended field analysis taken within 15 minutes of sample collection. Due to the potential for rapid change in sample equilibrium chemistry laboratory results may differ from field measured results

Dilution required, RDL has been increased accordingly.

6624747 Metals analysis completed on a filtered sample.
pH is a recommended field analysis taken within 15 minutes of sample collection. Due to the potential for rapid change in sample equilibrium chemistry laboratory results may differ from field measured results

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265059
PROJECT: TR13432B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave
SAMPLED BY:Madiga Bult

Trace Organics Analysis

RPT Date: Apr 04, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - VOCs (with PHC) (Water)															
Dichlorodifluoromethane	6624747	6624747	< 0.40	< 0.40	NA	< 0.40	88%	50%	140%	90%	50%	140%	87%	50%	140%
Vinyl Chloride	6624747	6624747	< 0.17	< 0.17	NA	< 0.17	65%	50%	140%	63%	50%	140%	78%	50%	140%
Bromomethane	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	81%	50%	140%	91%	50%	140%	70%	50%	140%
Trichlorofluoromethane	6624747	6624747	< 0.40	< 0.40	NA	< 0.40	67%	50%	140%	69%	50%	140%	63%	50%	140%
Acetone	6624747	6624747	< 1.0	< 1.0	NA	< 1.0	90%	50%	140%	93%	50%	140%	87%	50%	140%
1,1-Dichloroethylene	6624747	6624747	< 0.30	< 0.30	NA	< 0.30	107%	50%	140%	86%	60%	130%	119%	50%	140%
Methylene Chloride	6624747	6624747	< 0.30	< 0.30	NA	< 0.30	61%	50%	140%	73%	60%	130%	81%	50%	140%
trans- 1,2-Dichloroethylene	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	87%	50%	140%	85%	60%	130%	82%	50%	140%
Methyl tert-butyl ether	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	74%	50%	140%	97%	60%	130%	81%	50%	140%
1,1-Dichloroethane	6624747	6624747	< 0.30	< 0.30	NA	< 0.30	62%	50%	140%	87%	60%	130%	97%	50%	140%
Methyl Ethyl Ketone	6624747	6624747	< 1.0	< 1.0	NA	< 1.0	82%	50%	140%	86%	50%	140%	87%	50%	140%
cis- 1,2-Dichloroethylene	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	78%	50%	140%	97%	60%	130%	82%	50%	140%
Chloroform	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	72%	50%	140%	77%	60%	130%	80%	50%	140%
1,2-Dichloroethane	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	85%	50%	140%	82%	60%	130%	109%	50%	140%
1,1,1-Trichloroethane	6624747	6624747	< 0.30	< 0.30	NA	< 0.30	78%	50%	140%	70%	60%	130%	86%	50%	140%
Carbon Tetrachloride	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	70%	50%	140%	77%	60%	130%	73%	50%	140%
Benzene	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	92%	50%	140%	70%	60%	130%	83%	50%	140%
1,2-Dichloropropane	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	80%	50%	140%	91%	60%	130%	99%	50%	140%
Trichloroethylene	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	64%	50%	140%	93%	60%	130%	89%	50%	140%
Bromodichloromethane	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	82%	50%	140%	64%	60%	130%	111%	50%	140%
Methyl Isobutyl Ketone	6624747	6624747	< 1.0	< 1.0	NA	< 1.0	82%	50%	140%	78%	50%	140%	73%	50%	140%
1,1,2-Trichloroethane	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	70%	50%	140%	79%	60%	130%	90%	50%	140%
Toluene	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	75%	50%	140%	80%	60%	130%	105%	50%	140%
Dibromochloromethane	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	97%	50%	140%	72%	60%	130%	82%	50%	140%
Ethylene Dibromide	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	82%	50%	140%	83%	60%	130%	73%	50%	140%
Tetrachloroethylene	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	73%	50%	140%	80%	60%	130%	105%	50%	140%
1,1,1,2-Tetrachloroethane	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	113%	50%	140%	105%	60%	130%	83%	50%	140%
Chlorobenzene	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	80%	50%	140%	84%	60%	130%	104%	50%	140%
Ethylbenzene	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	80%	50%	140%	90%	60%	130%	103%	50%	140%
m & p-Xylene	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	81%	50%	140%	92%	60%	130%	100%	50%	140%
Bromoform	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	68%	50%	140%	71%	60%	130%	96%	50%	140%
Styrene	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	74%	50%	140%	86%	60%	130%	82%	50%	140%
1,1,2,2-Tetrachloroethane	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	61%	50%	140%	75%	60%	130%	66%	50%	140%
o-Xylene	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	73%	50%	140%	78%	60%	130%	87%	50%	140%
1,3-Dichlorobenzene	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	80%	50%	140%	91%	60%	130%	81%	50%	140%
1,4-Dichlorobenzene	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	104%	50%	140%	105%	60%	130%	87%	50%	140%
1,2-Dichlorobenzene	6624747	6624747	< 0.10	< 0.10	NA	< 0.10	116%	50%	140%	111%	60%	130%	64%	50%	140%
n-Hexane	6624747	6624747	< 0.20	< 0.20	NA	< 0.20	87%	50%	140%	89%	60%	130%	90%	50%	140%

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265059
PROJECT: TR13432B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave
SAMPLED BY:Madiga Bult

Trace Organics Analysis (Continued)

RPT Date: Apr 04, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	6617457		<0.20	<0.20	NA	< 0.20	119%	50%	140%	80%	50%	140%	88%	50%	140%
Acenaphthylene	6617457		<0.20	<0.20	NA	< 0.20	109%	50%	140%	72%	50%	140%	78%	50%	140%
Acenaphthene	6617457		<0.20	<0.20	NA	< 0.20	110%	50%	140%	77%	50%	140%	84%	50%	140%
Fluorene	6617457		<0.20	<0.20	NA	< 0.20	112%	50%	140%	80%	50%	140%	88%	50%	140%
Phenanthrene	6617457		<0.10	<0.10	NA	< 0.10	114%	50%	140%	82%	50%	140%	90%	50%	140%
Anthracene	6617457		<0.10	<0.10	NA	< 0.10	105%	50%	140%	105%	50%	140%	94%	50%	140%
Fluoranthene	6617457		<0.20	<0.20	NA	< 0.20	113%	50%	140%	82%	50%	140%	89%	50%	140%
Pyrene	6617457		<0.20	<0.20	NA	< 0.20	108%	50%	140%	80%	50%	140%	88%	50%	140%
Benzo(a)anthracene	6617457		<0.20	<0.20	NA	< 0.20	83%	50%	140%	76%	50%	140%	78%	50%	140%
Chrysene	6617457		<0.10	<0.10	NA	< 0.10	103%	50%	140%	78%	50%	140%	85%	50%	140%
Benzo(b)fluoranthene	6617457		<0.10	<0.10	NA	< 0.10	101%	50%	140%	94%	50%	140%	93%	50%	140%
Benzo(k)fluoranthene	6617457		<0.10	<0.10	NA	< 0.10	109%	50%	140%	86%	50%	140%	95%	50%	140%
Benzo(a)pyrene	6617457		<0.01	<0.01	NA	< 0.01	85%	50%	140%	111%	50%	140%	72%	50%	140%
Indeno(1,2,3-cd)pyrene	6617457		<0.20	<0.20	NA	< 0.20	81%	50%	140%	103%	50%	140%	85%	50%	140%
Dibenz(a,h)anthracene	6617457		<0.20	<0.20	NA	< 0.20	79%	50%	140%	73%	50%	140%	79%	50%	140%
Benzo(g,h,i)perylene	6617457		<0.20	<0.20	NA	< 0.20	82%	50%	140%	74%	50%	140%	73%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F1 (C6 to C10)	6624747	6624747	< 25	< 25	NA	< 25	98%	60%	140%	105%	60%	140%	105%	60%	140%
F2 (C10 to C16)	6598415		< 100	< 100	0.0%	< 100	99%	60%	140%	66%	60%	140%	71%	60%	140%
F3 (C16 to C34)	6598415		< 100	< 100	0.0%	< 100	108%	60%	140%	69%	60%	140%	74%	60%	140%
F4 (C34 to C50)	6598415		< 100	< 100	0.0%	< 100	82%	60%	140%	91%	60%	140%	83%	60%	140%
O. Reg. 153(511) - PCBs (Water)															
Polychlorinated Biphenyls	6618477		< 0.1	< 0.1	NA	< 0.1	107%	50%	140%	107%	50%	140%	94%	50%	140%

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

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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265059
PROJECT: TR13432B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave
SAMPLED BY:Madiga Bult

Water Analysis

RPT Date: Apr 04, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	6617561		1.2	1.2	NA	< 1.0	105%	70%	130%	108%	80%	120%	117%	70%	130%
Dissolved Arsenic	6617561		3.4	2.5	NA	< 1.0	98%	70%	130%	102%	80%	120%	104%	70%	130%
Dissolved Barium	6617561		78.7	76.3	3.1%	< 2.0	101%	70%	130%	101%	80%	120%	104%	70%	130%
Dissolved Beryllium	6617561		<0.50	<0.50	NA	< 0.50	109%	70%	130%	114%	80%	120%	114%	70%	130%
Dissolved Boron	6617561		96.9	97.6	0.7%	< 10.0	102%	70%	130%	112%	80%	120%	122%	70%	130%
Dissolved Cadmium	6617561		<0.20	<0.20	NA	< 0.20	99%	70%	130%	98%	80%	120%	90%	70%	130%
Dissolved Chromium	6617561		<2.0	<2.0	NA	< 2.0	102%	70%	130%	96%	80%	120%	95%	70%	130%
Dissolved Cobalt	6617561		2.03	2.14	NA	< 0.50	92%	70%	130%	95%	80%	120%	92%	70%	130%
Dissolved Copper	6617561		1.5	1.3	NA	< 1.0	99%	70%	130%	94%	80%	120%	87%	70%	130%
Dissolved Lead	6617561		<0.50	<0.50	NA	< 0.50	97%	70%	130%	100%	80%	120%	98%	70%	130%
Dissolved Molybdenum	6617561		35.4	32.8	7.6%	< 0.50	102%	70%	130%	98%	80%	120%	96%	70%	130%
Dissolved Nickel	6617561		3.3	2.8	NA	< 1.0	91%	70%	130%	94%	80%	120%	90%	70%	130%
Dissolved Selenium	6617561		<1.0	<1.0	NA	< 1.0	96%	70%	130%	102%	80%	120%	115%	70%	130%
Dissolved Silver	6617561		<0.20	<0.20	NA	< 0.20	90%	70%	130%	91%	80%	120%	81%	70%	130%
Dissolved Thallium	6617561		<0.30	<0.30	NA	< 0.30	103%	70%	130%	104%	80%	120%	102%	70%	130%
Dissolved Uranium	6617561		16.0	15.3	4.5%	< 0.50	106%	70%	130%	107%	80%	120%	108%	70%	130%
Dissolved Vanadium	6617561		0.50	<0.40	NA	< 0.40	95%	70%	130%	100%	80%	120%	98%	70%	130%
Dissolved Zinc	6617561		<5.0	<5.0	NA	< 5.0	102%	70%	130%	96%	80%	120%	90%	70%	130%
Chromium VI	6625465		<2.000	<2.000	NA	< 2	100%	70%	130%	101%	80%	120%	97%	70%	130%
Cyanide, WAD	6616647		<2	<2	NA	< 2	108%	70%	130%	104%	80%	120%	97%	70%	130%
Dissolved Sodium	6617561		265000	255000	3.8%	< 50	90%	70%	130%	98%	80%	120%	93%	70%	130%
Chloride	6621124		157000	161000	2.5%	< 100	93%	70%	130%	102%	80%	120%	NA	70%	130%
pH	6625463		7.18	7.33	2.1%	NA	100%	90%	110%						

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

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

Mercury Analysis in Water (Dissolved)

Dissolved Mercury	6624607	6624607	<0.026	<0.026	NA	< 0.026	94%	80%	120%	98%	80%	120%	91%	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265059
PROJECT: TR13432B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave
SAMPLED BY:Madiga Bult

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Napthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			N/A
Polychlorinated Biphenyls	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Mercury	MET-121-6100 & MET-121-6107	SM 3112 B	CV/AA
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Dissolved Sodium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP/MS
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
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Chain of Custody Record

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

Laboratory Use Only

Work Order #: 25 Z 26 5059

Cooler Quantity: One - Bagged ice

Arrival Temperatures: 5.2 | 5.1 | 5.5

Depot Temperatures: 6.2 | 5.0 | 6.3

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: B/I

Report Information:

Company: Geosyntec consultants

Contact: Kevin Kim

Address: 130 Stone Road West, Guelph ON N1G 3Z2

Phone: 416 916 6005 Fax:

Reports to be sent to:

1. Email: Kevin.Kim@geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture

Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406 — Table ___ (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other — Indicate One

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

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

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

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

Project Information:

Project: TR1303B

Site Location: 1309 Carling Ave

Sampled By: Hadiqa Butt

AGAT Quote #: 342166084UP PO: TR1303Z-650-1

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

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:

Contact:

Address:

Email:

Legal Sample ☐

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	Metals - ☒ CrVI. ☒ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Arocolors ☒	O. Reg 406: Regulation 406 Characterization Package	pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 558: Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. MW15-17-GW20250328	25103128	9:30 AM/PM	16	GW		Y	X	X	X	X	X	X							
2. MW15-03A-GW20250328	25103128	11:40 AM/PM	18	GW		Y	X	X	X	X	X	X							
3. TCLP	25103128	– AM/PM	3	GW		N				X									
4.		AM/PM																	
5.		AM/PM																	
6.		AM/PM																	
7.		AM/PM																	
8.		AM/PM																	
9.		AM/PM																	
10.		AM/PM																	
11.		AM/PM			Comments: Please send Esdat formatted GEDs to esdat+geosyntec@esdatlabsync.net														

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Hadiqa Butt	25/03/28	13:00	D. Galea Inc VOC	25/03/26	13:03
C to Anco	03/31/25	13:00	Tiffany	April 1	9 AM

Page 1 of 1

N°: T-157364

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

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AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z265216

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Yris Verastegui, Inorganic Team Lead

DATE REPORTED: Apr 08, 2025

PAGES (INCLUDING COVER): 21

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

SAMPLE DESCRIPTION:				MW25-03-GW20250327	MW25-08-GW20250327	MW15-15-GW20250327	MW15-05-GW20250327
SAMPLE TYPE:				Water	Water	Water	Water
DATE SAMPLED:				2025-03-27 09:20	2025-03-27 10:40	2025-03-27 13:50	2025-03-27 15:30
Parameter	Unit	G / S	RDL	6625465	6625531	6625532	6625572
Naphthalene	µg/L	7	0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1	0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	4.1	0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	120	0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	0.1	0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	0.1	0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	0.4	0.20	<0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
Benzo(a)anthracene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	0.1	0.10	<0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.1	0.10	<0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.1	0.10	<0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.01	0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
2-and 1-methyl Napthalene	µg/L	2	0.20	<0.20	<0.20	<0.20	<0.20
Sediment				1	3	1	3
Surrogate	Unit	Acceptable Limits					
Naphthalene-d8	%	50-140		99	86	109	110
Acridine-d9	%	50-140		83	75	79	79
Terphenyl-d14	%	50-140		100	92	114	119

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6625465-6625572 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

SAMPLE DESCRIPTION:				MW25-03-GW20250327	MW25-08-GW20250327	MW15-15-GW20250327	MW15-05-GW20250327
SAMPLE TYPE:				Water	Water	Water	Water
DATE SAMPLED:				2025-03-27 09:20	2025-03-27 10:40	2025-03-27 13:50	2025-03-27 15:30
Parameter	Unit	G / S	RDL	6625465	6625531	6625532	6625572
F1 (C6 to C10)	µg/L	420	25	<25	<25	106	<25
F1 (C6 to C10) minus BTEX	µg/L	420	25	<25	<25	106	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L		100	<100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA	NA
Sediment				1	3	1	3
Surrogate	Unit	Acceptable Limits					
Toluene-d8	%	50-140		122	116	123	123
Terphenyl	% Recovery	60-140		80	79	96	81

Certified By:

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AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6625465-6625572 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amounts

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

		SAMPLE DESCRIPTION:		Trip Blank
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-03-27
Parameter	Unit	G / S	RDL	6625552
Dichlorodifluoromethane	µg/L	590	0.40	<0.40
Vinyl Chloride	µg/L	0.5	0.17	<0.17
Bromomethane	µg/L	0.89	0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40	<0.40
Acetone	µg/L	2700	1.0	<1.0
1,1-Dichloroethylene	µg/L	0.5	0.30	<0.30
Methylene Chloride	µg/L	5	0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20
Methyl tert-butyl ether	µg/L	15	0.20	<0.20
1,1-Dichloroethane	µg/L	0.5	0.30	<0.30
Methyl Ethyl Ketone	µg/L	400	1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20
Chloroform	µg/L	2	0.20	<0.20
1,2-Dichloroethane	µg/L	0.5	0.20	<0.20
1,1,1-Trichloroethane	µg/L	0.5	0.30	<0.30
Carbon Tetrachloride	µg/L	0.2	0.20	<0.20
Benzene	µg/L	0.5	0.20	<0.20
1,2-Dichloropropane	µg/L	0.5	0.20	<0.20
Trichloroethylene	µg/L	0.5	0.20	<0.20
Bromodichloromethane	µg/L	2	0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0
1,1,2-Trichloroethane	µg/L	0.5	0.20	<0.20
Toluene	µg/L	0.8	0.20	<0.20
Dibromochloromethane	µg/L	2	0.10	<0.10
Ethylene Dibromide	µg/L	0.2	0.10	<0.10
Tetrachloroethylene	µg/L	0.5	0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	1.1	0.10	<0.10
Chlorobenzene	µg/L	0.5	0.10	<0.10
Ethylbenzene	µg/L	0.5	0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

		SAMPLE DESCRIPTION:		Trip Blank
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-03-27
Parameter	Unit	G / S	RDL	6625552
Bromoform	µg/L	5	0.10	<0.10
Styrene	µg/L	0.5	0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.10	<0.10
o-Xylene	µg/L		0.10	<0.10
1,3-Dichlorobenzene	µg/L	0.5	0.10	<0.10
1,4-Dichlorobenzene	µg/L	0.5	0.10	<0.10
1,2-Dichlorobenzene	µg/L	0.5	0.10	<0.10
1,3-Dichloropropene	µg/L	0.5	0.30	<0.30
Xylenes (Total)	µg/L	72	0.20	<0.20
n-Hexane	µg/L	5	0.20	<0.20
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140		120
4-Bromofluorobenzene	% Recovery	50-140		102

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6625552 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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AGAT WORK ORDER: 25Z265216
PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS
SAMPLING SITE:1309 Carling Ave, Ottawa, ON

ATTENTION TO: Kevin Kim
SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

SAMPLE DESCRIPTION:				MW25-03-GW20250327	MW25-08-GW20250327	MW15-15-GW20250327	MW15-05-GW20250327
SAMPLE TYPE:				Water	Water	Water	Water
DATE SAMPLED:				2025-03-27 09:20	2025-03-27 10:40	2025-03-27 13:50	2025-03-27 15:30
Parameter	Unit	G / S	RDL	6625465	6625531	6625532	6625572
Dichlorodifluoromethane	µg/L	590	0.40	<0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	0.5	0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	0.89	0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	2700	1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	0.5	0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	5	0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	15	0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	0.5	0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	400	1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	10.2	<0.20
Chloroform	µg/L	2	0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	0.5	0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	2	0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	0.8	0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	2	0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.2	0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	0.5	0.20	<0.20	<0.20	407	<0.20
1,1,1,2-Tetrachloroethane	µg/L	1.1	0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	0.5	0.10	<0.10	<0.10	<0.10	<0.10

Certified By: NPopowkolof

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

Certificate of Analysis

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

				SAMPLE DESCRIPTION:	MW25-03-GW20250327	MW25-08-GW20250327	MW15-15-GW20250327	MW15-05-GW20250327
				SAMPLE TYPE:	Water	Water	Water	Water
				DATE SAMPLED:	2025-03-27 09:20	2025-03-27 10:40	2025-03-27 13:50	2025-03-27 15:30
Parameter	Unit	G / S	RDL		6625465	6625531	6625532	6625572
Ethylbenzene	µg/L	0.5	0.10		<0.10	<0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20		<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	5	0.10		<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	0.5	0.10		<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.10		<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10		<0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	0.5	0.10		<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	0.5	0.10		<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	0.5	0.10		<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	0.5	0.30		<0.30	<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	72	0.20		<0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	5	0.20		<0.20	<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits						
Toluene-d8	% Recovery	50-140			122	116	123	123
4-Bromofluorobenzene	% Recovery	50-140			100	92	98	97

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6625465-6625572 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

Mercury Analysis in Water (Dissolved)

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

				MW25-03-GW20250327	MW25-08-GW20250327	MW15-15-GW20250327
SAMPLE DESCRIPTION:						
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				2025-03-27 09:20	2025-03-27 10:40	2025-03-27 13:50
Parameter	Unit	G / S	RDL	6625465	6625531	6625532
Dissolved Mercury	ug/L		0.026	<0.026	<0.026	<0.026

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

Analysis performed at AGAT Halifax (unless marked by *)

Certified By: Iris Verástegui

Results relate only to the items tested. Results apply to samples as received.

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

Certificate of Analysis

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

SAMPLE DESCRIPTION:				MW25-03-GW20250327		MW25-08-GW20250327	MW15-15-GW20250327
SAMPLE TYPE:				Water		Water	Water
DATE SAMPLED:				2025-03-27 09:20		2025-03-27 10:40	2025-03-27 13:50
Parameter	Unit	G / S	RDL	6625465	RDL	6625531	6625532
Dissolved Antimony	µg/L	1.5	1.0	<1.0	1.0	<1.0	<1.0
Dissolved Arsenic	µg/L	13	1.0	4.1	1.0	1.4	<1.0
Dissolved Barium	µg/L	610	2.0	418	2.0	33.0	102
Dissolved Beryllium	µg/L	0.5	0.50	<0.50	0.50	<0.50	<0.50
Dissolved Boron	µg/L	1700	10.0	222	10.0	27.5	182
Dissolved Cadmium	µg/L	0.5	0.20	<0.20	0.20	<0.20	<0.20
Dissolved Chromium	µg/L	11	2.0	<2.0	2.0	<2.0	<2.0
Dissolved Cobalt	µg/L	3.8	0.50	1.24	0.50	<0.50	<0.50
Dissolved Copper	µg/L	5	1.0	1.7	1.0	<1.0	<1.0
Dissolved Lead	µg/L	1.9	0.50	<0.50	0.50	<0.50	<0.50
Dissolved Molybdenum	µg/L	23	0.50	17.2	0.50	5.00	2.63
Dissolved Nickel	µg/L	14	1.0	8.7	1.0	1.1	1.5
Dissolved Selenium	µg/L	5	1.0	<1.0	1.0	<1.0	<1.0
Dissolved Silver	µg/L	0.3	0.20	<0.20	0.20	<0.20	<0.20
Dissolved Thallium	µg/L	0.5	0.30	<0.30	0.30	<0.30	<0.30
Dissolved Uranium	µg/L	8.9	0.50	10.3	0.50	0.68	<0.50
Dissolved Vanadium	µg/L	3.9	0.40	0.47	0.40	10.5	3.09
Dissolved Zinc	µg/L	160	5.0	8.7	5.0	<5.0	<5.0
Chromium VI	µg/L	25	2.000	<2.000	2.000	<2.000	<2.000
Cyanide, WAD	µg/L	5	2	<2	2	<2	<2
Dissolved Sodium	µg/L	490000	500	733000	50	75200	83000
Chloride	µg/L	790000	122	2070000	100	99200	342000
pH	pH Units		NA	7.61	NA	7.47	7.49
Lab Filtration Chromium VI				1		1	1
Lab Filtration mercury				1		1	1
Lab Filtration Metals				1		1	1

Certified By: Iris Verástegui

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

DATE RECEIVED: 2025-03-27

DATE REPORTED: 2025-04-08

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6625465-6625532 Metals analysis completed on a filtered sample.
pH is a recommended field analysis taken within 15 minutes of sample collection. Due to the potential for rapid change in sample equilibrium chemistry laboratory results may differ from field measured results
Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Iris Verástegui

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Exceedance Summary

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6625465	MW25-03-GW20250327	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	µg/L	790000	2070000
6625465	MW25-03-GW20250327	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water)	Dissolved Sodium	µg/L	490000	733000
6625465	MW25-03-GW20250327	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water)	Dissolved Uranium	µg/L	8.9	10.3
6625531	MW25-08-GW20250327	ON T1 GW	O. Reg. 153(511) - Metals & Inorganics (Water)	Dissolved Vanadium	µg/L	3.9	10.5
6625532	MW15-15-GW20250327	ON T1 GW	O. Reg. 153(511) - VOCs (with PHC) (Water)	Tetrachloroethylene	µg/L	0.5	407
6625532	MW15-15-GW20250327	ON T1 GW	O. Reg. 153(511) - VOCs (with PHC) (Water)	cis- 1,2-Dichloroethylene	µg/L	1.6	10.2

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CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265216
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Madiga B.

Trace Organics Analysis

RPT Date: Apr 08, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F1 (C6 to C10)	6601806		<25	<25	NA	< 25	98%	60%	140%	87%	60%	140%	68%	60%	140%
F2 (C10 to C16)	6619583		< 100	< 100	NA	< 100	107%	60%	140%	88%	60%	140%	69%	60%	140%
F3 (C16 to C34)	6619583		< 100	< 100	NA	< 100	101%	60%	140%	94%	60%	140%	76%	60%	140%
F4 (C34 to C50)	6619583		< 100	< 100	NA	< 100	66%	60%	140%	91%	60%	140%	81%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Water)															
Dichlorodifluoromethane	6601806		<0.40	<0.40	NA	< 0.40	90%	50%	140%	75%	50%	140%	72%	50%	140%
Vinyl Chloride	6601806		<0.17	<0.17	NA	< 0.17	65%	50%	140%	63%	50%	140%	78%	50%	140%
Bromomethane	6601806		<0.20	<0.20	NA	< 0.20	81%	50%	140%	91%	50%	140%	70%	50%	140%
Trichlorofluoromethane	6601806		<0.40	<0.40	NA	< 0.40	67%	50%	140%	69%	50%	140%	63%	50%	140%
Acetone	6601806		<1.0	<1.0	NA	< 1.0	73%	50%	140%	88%	50%	140%	93%	50%	140%
1,1-Dichloroethylene	6601806		<0.30	<0.30	NA	< 0.30	107%	50%	140%	86%	60%	130%	119%	50%	140%
Methylene Chloride	6601806		<0.30	<0.30	NA	< 0.30	61%	50%	140%	73%	60%	130%	81%	50%	140%
trans- 1,2-Dichloroethylene	6601806		<0.20	<0.20	NA	< 0.20	113%	50%	140%	103%	60%	130%	95%	50%	140%
Methyl tert-butyl ether	6601806		<0.20	<0.20	NA	< 0.20	74%	50%	140%	97%	60%	130%	81%	50%	140%
1,1-Dichloroethane	6601806		<0.30	<0.30	NA	< 0.30	62%	50%	140%	87%	60%	130%	97%	50%	140%
Methyl Ethyl Ketone	6601806		<1.0	<1.0	NA	< 1.0	78%	50%	140%	80%	50%	140%	110%	50%	140%
cis- 1,2-Dichloroethylene	6601806		<0.20	<0.20	NA	< 0.20	78%	50%	140%	97%	60%	130%	82%	50%	140%
Chloroform	6601806		<0.20	<0.20	NA	< 0.20	64%	50%	140%	97%	60%	130%	88%	50%	140%
1,2-Dichloroethane	6601806		<0.20	<0.20	NA	< 0.20	85%	50%	140%	82%	60%	130%	109%	50%	140%
1,1,1-Trichloroethane	6601806		<0.30	<0.30	NA	< 0.30	105%	50%	140%	114%	60%	130%	94%	50%	140%
Benzene	6601806		<0.20	<0.20	NA	< 0.20	92%	50%	140%	70%	60%	130%	83%	50%	140%
1,2-Dichloropropane	6601806		<0.20	<0.20	NA	< 0.20	80%	50%	140%	91%	60%	130%	99%	50%	140%
Trichloroethylene	6601806		<0.20	<0.20	NA	< 0.20	64%	50%	140%	93%	60%	130%	89%	50%	140%
Bromodichloromethane	6601806		<0.20	<0.20	NA	< 0.20	82%	50%	140%	64%	60%	130%	111%	50%	140%
Methyl Isobutyl Ketone	6601806		<1.0	<1.0	NA	< 1.0	67%	50%	140%	120%	50%	140%	80%	50%	140%
1,1,2-Trichloroethane	6601806		<0.20	<0.20	NA	< 0.20	110%	50%	140%	99%	60%	130%	113%	50%	140%
Toluene	6601806		<0.20	<0.20	NA	< 0.20	75%	50%	140%	80%	60%	130%	105%	50%	140%
Dibromochloromethane	6601806		<0.10	<0.10	NA	< 0.10	72%	50%	140%	97%	60%	130%	108%	50%	140%
Ethylene Dibromide	6601806		<0.10	<0.10	NA	< 0.10	73%	50%	140%	88%	60%	130%	81%	50%	140%
Tetrachloroethylene	6601806		<0.20	<0.20	NA	< 0.20	73%	50%	140%	80%	60%	130%	101%	50%	140%
1,1,1,2-Tetrachloroethane	6601806		<0.10	<0.10	NA	< 0.10	113%	50%	140%	105%	60%	130%	83%	50%	140%
Chlorobenzene	6601806		<0.10	<0.10	NA	< 0.10	80%	50%	140%	84%	60%	130%	104%	50%	140%
Ethylbenzene	6601806		<0.10	<0.10	NA	< 0.10	80%	50%	140%	90%	60%	130%	103%	50%	140%
m & p-Xylene	6601806		<0.20	<0.20	NA	< 0.20	81%	50%	140%	92%	60%	130%	100%	50%	140%
Bromoform	6601806		<0.10	<0.10	NA	< 0.10	68%	50%	140%	71%	60%	130%	96%	50%	140%
Styrene	6601806		<0.10	<0.10	NA	< 0.10	74%	50%	140%	86%	60%	130%	82%	50%	140%
1,1,2,2-Tetrachloroethane	6601806		<0.10	<0.10	NA	< 0.10	61%	50%	140%	75%	60%	130%	66%	50%	140%
o-Xylene	6601806		<0.10	<0.10	NA	< 0.10	73%	50%	140%	78%	60%	130%	87%	50%	140%
1,3-Dichlorobenzene	6601806		<0.10	<0.10	NA	< 0.10	80%	50%	140%	91%	60%	130%	81%	50%	140%

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265216
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Madiga B.

Trace Organics Analysis (Continued)

RPT Date: Apr 08, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,4-Dichlorobenzene	6601806		<0.10	<0.10	NA	< 0.10	104%	50%	140%	105%	60%	130%	87%	50%	140%
1,2-Dichlorobenzene	6601806		<0.10	<0.10	NA	< 0.10	116%	50%	140%	111%	60%	130%	64%	50%	140%
n-Hexane	6601806		<0.20	<0.20	NA	< 0.20	119%	50%	140%	95%	60%	130%	85%	50%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	6617457		<0.20	<0.20	NA	< 0.20	119%	50%	140%	80%	50%	140%	88%	50%	140%
Acenaphthylene	6617457		<0.20	<0.20	NA	< 0.20	109%	50%	140%	72%	50%	140%	78%	50%	140%
Acenaphthene	6617457		<0.20	<0.20	NA	< 0.20	110%	50%	140%	77%	50%	140%	84%	50%	140%
Fluorene	6617457		<0.20	<0.20	NA	< 0.20	112%	50%	140%	80%	50%	140%	88%	50%	140%
Phenanthrene	6617457		<0.10	<0.10	NA	< 0.10	114%	50%	140%	82%	50%	140%	90%	50%	140%
Anthracene	6617457		<0.10	<0.10	NA	< 0.10	105%	50%	140%	105%	50%	140%	94%	50%	140%
Fluoranthene	6617457		<0.20	<0.20	NA	< 0.20	113%	50%	140%	82%	50%	140%	89%	50%	140%
Pyrene	6617457		<0.20	<0.20	NA	< 0.20	108%	50%	140%	80%	50%	140%	88%	50%	140%
Benzo(a)anthracene	6617457		<0.20	<0.20	NA	< 0.20	83%	50%	140%	76%	50%	140%	78%	50%	140%
Chrysene	6617457		<0.10	<0.10	NA	< 0.10	103%	50%	140%	78%	50%	140%	85%	50%	140%
Benzo(b)fluoranthene	6617457		<0.10	<0.10	NA	< 0.10	101%	50%	140%	94%	50%	140%	93%	50%	140%
Benzo(k)fluoranthene	6617457		<0.10	<0.10	NA	< 0.10	109%	50%	140%	86%	50%	140%	95%	50%	140%
Benzo(a)pyrene	6617457		<0.01	<0.01	NA	< 0.01	85%	50%	140%	111%	50%	140%	72%	50%	140%
Indeno(1,2,3-cd)pyrene	6617457		<0.20	<0.20	NA	< 0.20	81%	50%	140%	103%	50%	140%	85%	50%	140%
Dibenz(a,h)anthracene	6617457		<0.20	<0.20	NA	< 0.20	79%	50%	140%	73%	50%	140%	79%	50%	140%
Benzo(g,h,i)perylene	6617457		<0.20	<0.20	NA	< 0.20	82%	50%	140%	74%	50%	140%	73%	50%	140%

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

Certified By: N Popnikolof

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265216
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Madiga B.

Water Analysis

RPT Date: Apr 08, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	6627815		<1.0	<1.0	NA	< 1.0	99%	70%	130%	99%	80%	120%	94%	70%	130%
Dissolved Arsenic	6627815		<1.0	<1.0	NA	< 1.0	92%	70%	130%	87%	80%	120%	89%	70%	130%
Dissolved Barium	6627815		1240	1330	7.0%	< 2.0	97%	70%	130%	98%	80%	120%	85%	70%	130%
Dissolved Beryllium	6627815		<0.50	<0.50	NA	< 0.50	88%	70%	130%	87%	80%	120%	102%	70%	130%
Dissolved Boron	6627815		49.1	53.8	NA	< 10.0	100%	70%	130%	87%	80%	120%	104%	70%	130%
Dissolved Cadmium	6627815		<0.20	<1.0	NA	< 0.20	100%	70%	130%	100%	80%	120%	89%	70%	130%
Dissolved Chromium	6627815		<2.0	<2.0	NA	< 2.0	98%	70%	130%	103%	80%	120%	97%	70%	130%
Dissolved Cobalt	6627815		8.10	8.66	6.7%	< 0.50	96%	70%	130%	96%	80%	120%	88%	70%	130%
Dissolved Copper	6627815		1.4	2.7	NA	< 1.0	100%	70%	130%	98%	80%	120%	84%	70%	130%
Dissolved Lead	6627815		<0.50	<0.50	NA	< 0.50	97%	70%	130%	94%	80%	120%	86%	70%	130%
Dissolved Molybdenum	6627815		0.88	1.39	NA	< 0.50	100%	70%	130%	103%	80%	120%	109%	70%	130%
Dissolved Nickel	6627815		13.8	16.3	16.6%	< 1.0	95%	70%	130%	95%	80%	120%	83%	70%	130%
Dissolved Selenium	6627815		<1.0	1.9	NA	< 1.0	100%	70%	130%	100%	80%	120%	100%	70%	130%
Dissolved Silver	6627815		<0.20	<0.20	NA	< 0.20	95%	70%	130%	96%	80%	120%	89%	70%	130%
Dissolved Thallium	6627815		<0.30	<0.30	NA	< 0.30	94%	70%	130%	89%	80%	120%	85%	70%	130%
Dissolved Uranium	6627815		2.47	2.90	NA	< 0.50	102%	70%	130%	99%	80%	120%	97%	70%	130%
Dissolved Vanadium	6627815		<0.40	<0.40	NA	< 0.40	93%	70%	130%	90%	80%	120%	99%	70%	130%
Dissolved Zinc	6627815		<5.0	<5.0	NA	< 5.0	102%	70%	130%	104%	80%	120%	80%	70%	130%
Chromium VI	6625465	6625465	<2.000	<2.000	NA	< 2	100%	70%	130%	101%	80%	120%	97%	70%	130%
Cyanide, WAD	6623097		<2	<2	NA	< 2	100%	70%	130%	107%	80%	120%	105%	70%	130%
Dissolved Sodium	6627815		871000	870000	0.1%	< 50	72%	70%	130%	85%	80%	120%	108%	70%	130%
Chloride	6621124		157000	161000	2.5%	< 100	93%	70%	130%	102%	80%	120%	NA	70%	130%
pH	6625463		7.18	7.33	2.1%	NA	100%	90%	110%						

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.
Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Mercury Analysis in Water (Dissolved)

Dissolved Mercury	6624607		<0.026	<0.026	NA	< 0.026	94%	80%	120%	98%	80%	120%	91%	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Iris Verástegui

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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FAX (905)712-5122
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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z265216
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa, ON
SAMPLED BY:Madiga B.

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

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Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

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

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Method Summary

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AGAT WORK ORDER: 25Z265216

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa, ON

SAMPLED BY:Madiga B.

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Mercury	MET-121-6100 & MET-121-6107	SM 3112 B	CV/AA
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Dissolved Sodium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP/MS
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE
Lab Filtration Chromium VI	SR-78-9001		FILTRATION
Lab Filtration mercury	SR-78-9001		FILTRATION
Lab Filtration Metals	SR-78-9001		FILTRATION

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: kevin.kim@geosyntec.com
2. Email: psdat+geosyntec@esdatlabsync.net

Project Information:

Project: TR13633
Site Location: 1309 Cyrville Ave, Ottawa ON
Sampled By: Madiga Butt
AGAT Quote #: 34216668942 PO: TR13633-G501
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table (Indicate One): ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406
Table (Indicate One): ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

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

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 25722652l6
Cooler Quantity: one - bagged ice
Arrival Temperatures: 4.5 | 4.8 | 3.3
Depot Temperatures: 10.9 | 11.4 | 11.9
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: BI

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B/aP ☐ PCBs	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B/aP ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. MW25-03_GW20250327	25/03/27	9:20 AM PM	18	GW		N	X	X	X	X	X								
2. MW25-08_GW20250327	25/03/27	10:40 AM PM	18	GW		N	X	X	X	X	X								
3. MW15-15_GW20250327	25/03/27	13:50 AM PM	18	GW		N	X	X	X	X	X								
4. TCLP	25/03/27	- AM PM	3	GW						X									
5. MW15-05_GW20250327	25/03/27	15:30 AM PM	11	GW		N	[redacted]		X	X	X								
6.		AM PM																	
7.		AM PM																	
8.		AM PM																	
9.		AM PM																	
10.		AM PM																	
11.		AM PM			Comments: Please send Esdat formatted GDD to psdat+geosyntec@esdatlabsync.net														

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Madiga Butt	25/03/27	16:30	C. Griffith	03/27/25	16h28
CC to Dino	03/28/25	15h00		April 1	9 AM
	03/31/25				

Page ____ of ____

N°: T-157363

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

Document ID: DW-78-1511-023

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Date Issued: Jan 16, 2024

AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z267371

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

WATER ANALYSIS REVIEWED BY: Yris Verastegui, Inorganic Team Lead

DATE REPORTED: Apr 15, 2025

PAGES (INCLUDING COVER): 24

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

				MW15-06_GW2025040	MW15-12_GW2025040	MW25-02_GW2025040	MW25-04_GW2025040	MW25-05_GW2025040
SAMPLE DESCRIPTION:				4	4	3	3	3
SAMPLE TYPE:				Water	Water	Water	Water	Water
DATE SAMPLED:				2025-04-04 08:45	2025-04-04 11:30	2025-04-03 09:30	2025-04-03 16:20	2025-04-03 14:30
Parameter	Unit	G / S	RDL	6639051	6639053	6639056	6639057	6639058
Naphthalene	µg/L	1400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1.8	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	600	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	580	0.10	0.33	<0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	2.4	0.10	0.11	<0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	130	0.20	0.44	<0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	68	0.20	0.33	<0.20	<0.20	<0.20	<0.20
Benzo(a)anthracene	µg/L	4.7	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	1	0.10	0.44	<0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.75	0.10	0.22	<0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.81	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.52	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-and 1-methyl Napthalene	µg/L	1800	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Sediment				1	1	1	1	1
Surrogate	Unit	Acceptable Limits						
Naphthalene-d8	%	50-140		101	115	118	118	118
Acridine-d9	%	50-140		77	114	80	110	79
Terphenyl-d14	%	50-140		112	106	117	119	120

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AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6639051-6639058 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

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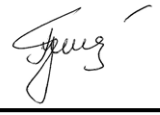

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AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

				MW25-02_GW2025040	MW25-05_GW2025040
SAMPLE DESCRIPTION:				3	3
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-04-03 09:30	2025-04-03 14:30
Parameter	Unit	G / S	RDL	6639056	6639058
Polychlorinated Biphenyls	µg/L	7.8	0.1	<0.1	<0.1
Surrogate	Unit	Acceptable Limits			
Decachlorobiphenyl	%	60-140		82	87

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6639056-6639058 PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

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PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

				MW15-06_GW2025040	MW15-12_GW2025040	MW25-02_GW2025040	MW25-04_GW2025040	MW25-05_GW2025040
SAMPLE DESCRIPTION:				4	4	3	3	3
SAMPLE TYPE:				Water	Water	Water	Water	Water
DATE SAMPLED:				2025-04-04 08:45	2025-04-04 11:30	2025-04-03 09:30	2025-04-03 16:20	2025-04-03 14:30
Parameter	Unit	G / S	RDL	6639051	6639053	6639056	6639057	6639058
F1 (C6 to C10)	µg/L	750	25	51	<25	64	60	53
F1 (C6 to C10) minus BTEX	µg/L	750	25	51	<25	64	60	53
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L		100	<100	<100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA	NA	NA
Sediment				3	1	1	1	1
Surrogate	Unit	Acceptable Limits						
Toluene-d8	%	50-140		121	134	122	118	130
Terphenyl	% Recovery	60-140		83	75	100	71	95

Certified By:

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PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6639051-6639058 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amounts

Analysis performed at AGAT Toronto (unless marked by *)

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ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

SAMPLE DESCRIPTION:				MW15-16_GW2025040 4	TRIP BLANK
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-04-04 08:15	2025-04-04
Parameter	Unit	G / S	RDL	6639055	6639061
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40	<0.40
Vinyl Chloride	µg/L	0.5	0.17	<0.17	<0.17
Bromomethane	µg/L	5.6	0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	1.6	0.30	<0.30	<0.30
Methylene Chloride	µg/L	610	0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	190	0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	320	0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	470000	1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20
Chloroform	µg/L	2.4	0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	1.6	0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	640	0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	0.79	0.20	<0.20	<0.20
Benzene	µg/L	44	0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	16	0.20	<0.20	<0.20
Trichloroethylene	µg/L	1.6	0.20	<0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	140000	1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	4.7	0.20	<0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.25	0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	1.6	0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10	<0.10	<0.10

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CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

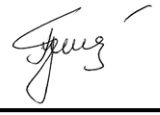
SAMPLE DESCRIPTION:				MW15-16_GW2025040 4	TRIP BLANK
SAMPLE TYPE:				Water	Water
DATE SAMPLED:				2025-04-04 08:15	2025-04-04
Parameter	Unit	G / S	RDL	6639055	6639061
Chlorobenzene	µg/L	630	0.10	<0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20	<0.20
Bromoform	µg/L	380	0.10	<0.10	<0.10
Styrene	µg/L	1300	0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20	<0.20	<0.20
n-Hexane	µg/L	51	0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits			
Toluene-d8	% Recovery	50-140		124	110
4-Bromofluorobenzene	% Recovery	50-140		90	90

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6639055-6639061 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

				MW15-06_GW2025040	MW15-12_GW2025040	MW25-02_GW2025040	MW25-04_GW2025040	MW25-05_GW2025040
SAMPLE DESCRIPTION:				4	4	3	3	3
SAMPLE TYPE:				Water	Water	Water	Water	Water
DATE SAMPLED:				2025-04-04 08:45	2025-04-04 11:30	2025-04-03 09:30	2025-04-03 16:20	2025-04-03 14:30
Parameter	Unit	G / S	RDL	6639051	6639053	6639056	6639057	6639058
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	0.5	0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	5.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	1.6	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	610	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	190	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	320	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	470000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	2.4	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	640	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	0.79	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	44	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	16	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	140000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	4.7	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.25	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:

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

Certificate of Analysis

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

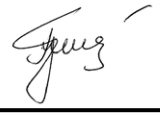
				MW15-06_GW2025040	MW15-12_GW2025040	MW25-02_GW2025040	MW25-04_GW2025040	MW25-05_GW2025040
SAMPLE DESCRIPTION:				4	4	3	3	3
SAMPLE TYPE:				Water	Water	Water	Water	Water
DATE SAMPLED:				2025-04-04 08:45	2025-04-04 11:30	2025-04-03 09:30	2025-04-03 16:20	2025-04-03 14:30
Parameter	Unit	G / S	RDL	6639051	6639053	6639056	6639057	6639058
Chlorobenzene	µg/L	630	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20	0.84	<0.20	<0.20	<0.20
Bromoform	µg/L	380	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	1300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	0.34	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20	<0.20	1.18	<0.20	<0.20	<0.20
n-Hexane	µg/L	51	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits						
Toluene-d8	% Recovery	50-140		121	134	122	118	130
4-Bromofluorobenzene	% Recovery	50-140		88	114	97	97	94

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6639051-6639058 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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CANADA L4Z 1Y2
TEL (905)712-5100
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Certificate of Analysis

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

				MW25-02_GW2025040
		SAMPLE DESCRIPTION:		3
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-04-03 09:30
Parameter	Unit	G / S	RDL	6639056
Dissolved Antimony	µg/L	20000	1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	<1.0
Dissolved Barium	µg/L	29000	2.0	79.8
Dissolved Beryllium	µg/L	67	0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	49.8
Dissolved Cadmium	µg/L	2.7	0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	0.72
Dissolved Copper	µg/L	87	1.0	<1.0
Dissolved Lead	µg/L	25	0.50	0.69
Dissolved Molybdenum	µg/L	9200	0.50	3.58
Dissolved Nickel	µg/L	490	1.0	2.3
Dissolved Selenium	µg/L	63	1.0	<1.0
Dissolved Silver	µg/L	1.5	0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	1.19
Dissolved Vanadium	µg/L	250	0.40	7.25
Dissolved Zinc	µg/L	1100	5.0	<5.0
Cyanide, WAD	µg/L	66	2	<2
Dissolved Sodium	µg/L	2300000	50	196000
Chloride	µg/L	2300000	100	577000
pH	pH Units		NA	7.05

Certified By: Iris Verástegui

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Certificate of Analysis

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6639056 Metals analysis completed on a filtered sample.
pH is a recommended field analysis taken within 15 minutes of sample collection. Due to the potential for rapid change in sample equilibrium chemistry laboratory results may differ from field measured results
Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Iris Verástegui

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Certificate of Analysis

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

Mercury Analysis in Water (Dissolved)

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

				MW15-06_GW2025040	MW15-12_GW2025040	MW25-02_GW2025040	MW25-04_GW2025040	MW25-05_GW2025040
SAMPLE DESCRIPTION:				4	4	3	3	3
SAMPLE TYPE:				Water	Water	Water	Water	Water
DATE SAMPLED:				2025-04-04 08:45	2025-04-04 11:30	2025-04-03 09:30	2025-04-03 16:20	2025-04-03 14:30
Parameter	Unit	G / S	RDL	6639051	6639053	6639056	6639057	6639058
Dissolved Mercury	ug/L		0.026	<0.026	<0.026	<0.026	<0.026	<0.026

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

Analysis performed at AGAT Halifax (unless marked by *)

Certified By: Iris Verástegui

Results relate only to the items tested. Results apply to samples as received.

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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Certificate of Analysis

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

				MW15-06_GW2025040	MW15-12_GW2025040	MW25-04_GW2025040	MW25-05_GW2025040
SAMPLE DESCRIPTION:				4	4	3	3
SAMPLE TYPE:				Water	Water	Water	Water
DATE SAMPLED:				2025-04-04 08:45	2025-04-04 11:30	2025-04-03 16:20	2025-04-03 14:30
Parameter	Unit	G / S	RDL	6639051	6639053	6639057	6639058
Dissolved Antimony	µg/L	20000	1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Barium	µg/L	29000	2.0	465	150	5.5	11.0
Dissolved Beryllium	µg/L	67	0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	163	204	31.1	41.3
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	2.92	0.67	<0.50	<0.50
Dissolved Copper	µg/L	87	1.0	<1.0	<1.0	<1.0	1.2
Dissolved Lead	µg/L	25	0.50	0.50	<0.50	<0.50	<0.50
Dissolved Molybdenum	µg/L	9200	0.50	3.63	4.80	6.69	9.06
Dissolved Nickel	µg/L	490	1.0	8.2	1.4	<1.0	1.2
Dissolved Selenium	µg/L	63	1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Silver	µg/L	1.5	0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30	<0.30	<0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	1.37	<0.50	<0.50	<0.50
Dissolved Vanadium	µg/L	250	0.40	0.46	0.43	8.21	5.00
Dissolved Zinc	µg/L	1100	5.0	<5.0	<5.0	<5.0	<5.0
Chromium VI	µg/L	140	2.000	<2.000	<2.000	<2.000	<2.000
Cyanide, WAD	µg/L	66	2	<2	<2	<2	<2
Dissolved Sodium	µg/L	2300000	50	270000	28600	48900	27300
Chloride	µg/L	2300000	100	1170000	112000	19100	21400
pH	pH Units		NA	7.19	7.25	7.07	6.90
Lab Filtration Chromium VI				1			
Lab Filtration mercury				1	1		

Certified By: Iris Verástegui

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Certificate of Analysis

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

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

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-15

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6639051-6639058 Metals analysis completed on a filtered sample.
pH is a recommended field analysis taken within 15 minutes of sample collection. Due to the potential for rapid change in sample equilibrium chemistry laboratory results may differ from field measured results
Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Iris Verástegui

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CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS
AGAT WORK ORDER: 25Z267371
PROJECT: TR1363B
ATTENTION TO: Kevin Kim
SAMPLING SITE:1309 Carling Ave, Ottawa ON
SAMPLED BY:Tristan Kennaley

Trace Organics Analysis

RPT Date: Apr 15, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F1 (C6 to C10)	6601806		<25	<25	NA	< 25	117%	60%	140%	99%	60%	140%	62%	60%	140%
F2 (C10 to C16)	6639056	6639056	< 100	< 100	NA	< 100	94%	60%	140%	93%	60%	140%	83%	60%	140%
F3 (C16 to C34)	6639056	6639056	< 100	< 100	NA	< 100	101%	60%	140%	68%	60%	140%	91%	60%	140%
F4 (C34 to C50)	6639056	6639056	< 100	< 100	NA	< 100	65%	60%	140%	97%	60%	140%	96%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Water)															
Dichlorodifluoromethane	6601806		<0.40	<0.40	NA	< 0.40	80%	50%	140%	63%	50%	140%	72%	50%	140%
Vinyl Chloride	6601806		<0.17	<0.17	NA	< 0.17	113%	50%	140%	75%	50%	140%	78%	50%	140%
Bromomethane	6601806		<0.20	<0.20	NA	< 0.20	119%	50%	140%	60%	50%	140%	70%	50%	140%
Trichlorofluoromethane	6601806		<0.40	<0.40	NA	< 0.40	67%	50%	140%	60%	50%	140%	63%	50%	140%
Acetone	6601806		<1.0	<1.0	NA	< 1.0	75%	50%	140%	127%	50%	140%	93%	50%	140%
1,1-Dichloroethylene	6601806		<0.30	<0.30	NA	< 0.30	85%	50%	140%	90%	60%	130%	119%	50%	140%
Methylene Chloride	6601806		<0.30	<0.30	NA	< 0.30	78%	50%	140%	101%	60%	130%	81%	50%	140%
trans- 1,2-Dichloroethylene	6601806		<0.20	<0.20	NA	< 0.20	91%	50%	140%	110%	60%	130%	95%	50%	140%
Methyl tert-butyl ether	6601806		<0.20	<0.20	NA	< 0.20	89%	50%	140%	103%	60%	130%	81%	50%	140%
1,1-Dichloroethane	6601806		<0.30	<0.30	NA	< 0.30	94%	50%	140%	95%	60%	130%	97%	50%	140%
Methyl Ethyl Ketone	6601806		<1.0	<1.0	NA	< 1.0	95%	50%	140%	98%	50%	140%	110%	50%	140%
cis- 1,2-Dichloroethylene	6601806		<0.20	<0.20	NA	< 0.20	89%	50%	140%	67%	60%	130%	82%	50%	140%
Chloroform	6601806		<0.20	<0.20	NA	< 0.20	86%	50%	140%	105%	60%	130%	88%	50%	140%
1,2-Dichloroethane	6601806		<0.20	<0.20	NA	< 0.20	101%	50%	140%	94%	60%	130%	109%	50%	140%
1,1,1-Trichloroethane	6601806		<0.30	<0.30	NA	< 0.30	115%	50%	140%	116%	60%	130%	94%	50%	140%
Carbon Tetrachloride	6601806		<0.20	<0.20	NA	< 0.20	68%	50%	140%	83%	60%	130%	81%	50%	140%
Benzene	6601806		<0.20	<0.20	NA	< 0.20	97%	50%	140%	112%	60%	130%	83%	50%	140%
1,2-Dichloropropane	6601806		<0.20	<0.20	NA	< 0.20	81%	50%	140%	97%	60%	130%	99%	50%	140%
Trichloroethylene	6601806		<0.20	<0.20	NA	< 0.20	79%	50%	140%	108%	60%	130%	89%	50%	140%
Bromodichloromethane	6601806		<0.20	<0.20	NA	< 0.20	96%	50%	140%	91%	60%	130%	111%	50%	140%
Methyl Isobutyl Ketone	6601806		<1.0	<1.0	NA	< 1.0	96%	50%	140%	136%	50%	140%	80%	50%	140%
1,1,2-Trichloroethane	6601806		<0.20	<0.20	NA	< 0.20	106%	50%	140%	96%	60%	130%	113%	50%	140%
Toluene	6601806		<0.20	<0.20	NA	< 0.20	101%	50%	140%	84%	60%	130%	105%	50%	140%
Dibromochloromethane	6601806		<0.10	<0.10	NA	< 0.10	110%	50%	140%	100%	60%	130%	108%	50%	140%
Ethylene Dibromide	6601806		<0.10	<0.10	NA	< 0.10	112%	50%	140%	97%	60%	130%	81%	50%	140%
Tetrachloroethylene	6601806		<0.20	<0.20	NA	< 0.20	57%	50%	140%	84%	60%	130%	101%	50%	140%
1,1,1,2-Tetrachloroethane	6601806		<0.10	<0.10	NA	< 0.10	116%	50%	140%	87%	60%	130%	83%	50%	140%
Chlorobenzene	6601806		<0.10	<0.10	NA	< 0.10	85%	50%	140%	89%	60%	130%	104%	50%	140%
Ethylbenzene	6601806		<0.10	<0.10	NA	< 0.10	81%	50%	140%	82%	60%	130%	103%	50%	140%
m & p-Xylene	6601806		<0.20	<0.20	NA	< 0.20	95%	50%	140%	99%	60%	130%	100%	50%	140%
Bromoform	6601806		<0.10	<0.10	NA	< 0.10	82%	50%	140%	89%	60%	130%	96%	50%	140%
Styrene	6601806		<0.10	<0.10	NA	< 0.10	95%	50%	140%	91%	60%	130%	82%	50%	140%
1,1,2,2-Tetrachloroethane	6601806		<0.10	<0.10	NA	< 0.10	119%	50%	140%	94%	60%	130%	66%	50%	140%
o-Xylene	6601806		<0.10	<0.10	NA	< 0.10	95%	50%	140%	82%	60%	130%	87%	50%	140%

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

Trace Organics Analysis (Continued)

RPT Date: Apr 15, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	6601806		<0.10	<0.10	NA	< 0.10	78%	50%	140%	101%	60%	130%	81%	50%	140%
1,4-Dichlorobenzene	6601806		<0.10	<0.10	NA	< 0.10	85%	50%	140%	112%	60%	130%	87%	50%	140%
1,2-Dichlorobenzene	6601806		<0.10	<0.10	NA	< 0.10	99%	50%	140%	90%	60%	130%	64%	50%	140%
n-Hexane	6601806		<0.20	<0.20	NA	< 0.20	101%	50%	140%	103%	60%	130%	85%	50%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	6647959		<0.20	<0.20	NA	< 0.20	116%	50%	140%	108%	50%	140%	107%	50%	140%
Acenaphthylene	6647959		<0.20	<0.20	NA	< 0.20	104%	50%	140%	103%	50%	140%	100%	50%	140%
Acenaphthene	6647959		<0.20	<0.20	NA	< 0.20	110%	50%	140%	112%	50%	140%	110%	50%	140%
Fluorene	6647959		<0.20	<0.20	NA	< 0.20	111%	50%	140%	112%	50%	140%	103%	50%	140%
Phenanthrene	6647959		<0.10	<0.10	NA	< 0.10	116%	50%	140%	121%	50%	140%	124%	50%	140%
Anthracene	6647959		<0.10	<0.10	NA	< 0.10	109%	50%	140%	75%	50%	140%	78%	50%	140%
Fluoranthene	6647959		<0.20	<0.20	NA	< 0.20	115%	50%	140%	120%	50%	140%	119%	50%	140%
Pyrene	6647959		<0.20	<0.20	NA	< 0.20	114%	50%	140%	119%	50%	140%	120%	50%	140%
Benzo(a)anthracene	6647959		<0.20	<0.20	NA	< 0.20	86%	50%	140%	80%	50%	140%	103%	50%	140%
Chrysene	6647959		<0.10	<0.10	NA	< 0.10	112%	50%	140%	103%	50%	140%	115%	50%	140%
Benzo(b)fluoranthene	6647959		<0.10	<0.10	NA	< 0.10	75%	50%	140%	91%	50%	140%	75%	50%	140%
Benzo(k)fluoranthene	6647959		<0.10	<0.10	NA	< 0.10	118%	50%	140%	115%	50%	140%	108%	50%	140%
Benzo(a)pyrene	6647959		<0.01	<0.01	NA	< 0.01	78%	50%	140%	93%	50%	140%	81%	50%	140%
Indeno(1,2,3-cd)pyrene	6647959		<0.20	<0.20	NA	< 0.20	89%	50%	140%	89%	50%	140%	79%	50%	140%
Dibenz(a,h)anthracene	6647959		<0.20	<0.20	NA	< 0.20	78%	50%	140%	81%	50%	140%	79%	50%	140%
Benzo(g,h,i)perylene	6647959		<0.20	<0.20	NA	< 0.20	90%	50%	140%	77%	50%	140%	93%	50%	140%
O. Reg. 153(511) - PCBs (Water)															
Polychlorinated Biphenyls	6643323		< 0.1	< 0.1	NA	< 0.1	101%	50%	140%	102%	50%	140%	85%	50%	140%

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

Certified By:

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

Water Analysis

RPT Date: Apr 15, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	6638829		<1.0	<1.0	NA	< 1.0	102%	70%	130%	101%	80%	120%	103%	70%	130%
Dissolved Arsenic	6638829		<1.0	<1.0	NA	< 1.0	97%	70%	130%	95%	80%	120%	103%	70%	130%
Dissolved Barium	6638829		123	133	7.8%	< 2.0	98%	70%	130%	94%	80%	120%	97%	70%	130%
Dissolved Beryllium	6638829		<0.50	<0.50	NA	< 0.50	103%	70%	130%	101%	80%	120%	98%	70%	130%
Dissolved Boron	6638829		480	502	4.5%	< 10.0	102%	70%	130%	99%	80%	120%	96%	70%	130%
Dissolved Cadmium	6638829		<0.20	0.25	NA	< 0.20	100%	70%	130%	100%	80%	120%	103%	70%	130%
Dissolved Chromium	6638829		<2.0	<2.0	NA	< 2.0	105%	70%	130%	103%	80%	120%	105%	70%	130%
Dissolved Cobalt	6638829		<0.50	<0.50	NA	< 0.50	103%	70%	130%	95%	80%	120%	104%	70%	130%
Dissolved Copper	6638829		<1.0	<1.0	NA	< 1.0	99%	70%	130%	98%	80%	120%	100%	70%	130%
Dissolved Lead	6638829		<0.50	<0.50	NA	< 0.50	100%	70%	130%	92%	80%	120%	92%	70%	130%
Dissolved Molybdenum	6638829		3.19	3.17	0.6%	< 0.50	99%	70%	130%	101%	80%	120%	106%	70%	130%
Dissolved Nickel	6638829		1.5	1.6	NA	< 1.0	101%	70%	130%	93%	80%	120%	104%	70%	130%
Dissolved Selenium	6638829		<1.0	<1.0	NA	< 1.0	96%	70%	130%	100%	80%	120%	120%	70%	130%
Dissolved Silver	6638829		<0.20	<0.20	NA	< 0.20	95%	70%	130%	92%	80%	120%	93%	70%	130%
Dissolved Thallium	6638829		<0.30	<0.30	NA	< 0.30	98%	70%	130%	93%	80%	120%	95%	70%	130%
Dissolved Uranium	6638829		<0.50	<0.50	NA	< 0.50	101%	70%	130%	98%	80%	120%	97%	70%	130%
Dissolved Vanadium	6638829		<0.40	<0.40	NA	< 0.40	104%	70%	130%	98%	80%	120%	110%	70%	130%
Dissolved Zinc	6638829		<5.0	<5.0	NA	< 5.0	103%	70%	130%	99%	80%	120%	108%	70%	130%
Chromium VI	6608660		<2.000	<2.000	NA	< 2	100%	70%	130%	101%	80%	120%	100%	70%	130%
Cyanide, WAD	6639051	6639051	<2	<2	NA	< 2	100%	70%	130%	103%	80%	120%	103%	70%	130%
Dissolved Sodium	6638829		67900	72800	7.0%	< 50	99%	70%	130%	94%	80%	120%	93%	70%	130%
Chloride	6637507		133000	128000	3.8%	< 100	94%	70%	130%	102%	80%	120%	NA	70%	130%
pH	6628594		6.63	6.70	1.1%	NA	100%	90%	110%						

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.
Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Mercury Analysis in Water (Dissolved)															
Dissolved Mercury	6639051	6639051	<0.026	<0.026	NA	< 0.026	97%	80%	120%	102%	80%	120%	96%	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Iris Verástegui

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z267371

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Napthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			N/A
Polychlorinated Biphenyls	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Dissolved Sodium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP/MS
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE
Dissolved Mercury	MET-121-6100 & MET-121-6107	SM 3112 B	CV/AA
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Lab Filtration mercury	SR-78-9001		FILTRATION
Lab Filtration Chromium VI	SR-78-9001		FILTRATION

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Project Information:

Project: TR1363B
Site Location: 1309 Carling Ave, Ottawa ON
Sampled By: Tristan Kennaley
AGAT Quote #: 342166089 42 PO: TR1363B-6501
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One): ☒ Coarse ☐ Fine

☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other — Indicate One

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

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

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 25226737 1
Cooler Quantity: 3, Bagged ice
Arrival Temperatures: see attached
Depot Temperatures:
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☒ CrVI, ☒ Hg, ☒ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
MW5-06 GW20250404	4/Apr/25	8:45 AM/PM	10	GW	Hg (CrVI) was not sampled	Y	X	X	X	X	X								
MW5-12_GW20250404	4/Apr/25	11:30 AM/PM	13	GW	Hg was not sampled	Y	X	X	X	X	X								
MW5-16_GW20250404	4/Apr/25 ~~11:30~~ 9:15 AM/PM	2	GW	Unable to sample fully due to access issues	N				X										
MW25-02_GW20250403	3/Apr/25 9:30 AM/PM	16	GW	Cr(VI) was not field filtered	Y	X	X	X	X	X	X								
MW25-04_GW20250403	3/Apr/25	16:20 AM/PM	15	GW		Y	X	X	X	X	X								
MW25-05_GW20250403	3/Apr/25	14:30 AM/PM	16	GW		Y	X	X	X	X	X	X								
7. TRIP BLANK	4/Apr/25	00:00 AM/PM	3	-						X									
8.		AM/PM																	
9.		AM/PM																	
10.		AM/PM																	
11.		AM/PM																	

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Tristan Kennaley,	04/04/25	12:45	D. Galeelao	2025/04/04	13:34
C. to Depot	04/04/25	15:00	Amely	2025/04/05	10:45 am

Page 1 of 1

N°: T-156285

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

Document ID: DW-75-1511-0229

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Date Issued: Jan 18, 2024

AGAT Laboratories

Sample Temperature Log

Client: Geosyntec

COC# or Work Order #:

# of Coolers: 3

# of Submissions: 3

	Arrival Temperatures - Branch/Driver	Arrival Temperatures - Laboratory
Cooler #1:	4.9 / 5.1 / 5.3	3.6 / 3.5 / 2.9
Cooler #2:	2.2 / 2.5 / 2.7	2.6 / 2.9 / 3.0
Cooler #3:	10.0 / 11.0 / 10.1	3.5 / 4.1 / 3.3
Cooler #4:	/ /	/ /
Cooler #5:	/ /	/ /
Cooler #6:	/ /	/ /
Cooler #7:	/ /	/ /
Cooler #8	/ /	/ /
Cooler #9:	/ /	/ /
Cooler #10:	/ /	/ /

* One cooler also contains unused returned containers. *

IR Gun ID: M107 - 3071 | **IR Gun ID:** M15 - 3118

Taken By: VDG | **Taken By:** Andy Jin

Date (yyyy/mm/dd): 2025/04/04 **Time:** 13 : 34 AM / PM | **Date** (yyyy/mm/dd): 2025/04/05 **Time:** 10 : 45 AM / PM

Instructions for use of this form: 1) complete all fields of info including total # of coolers and # of submissions rec'd, 2) photocopy and place in each submission prior to giving a WO#, 3) Proceed as normal, write the WO# and scan (please make sure to scan along with the COC)

AGAT Laboratories

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

CLIENT NAME: GEOSYNTEC CONSULTANTS
130 Stone Road West
Guelph, ON N1G5G3
(519) 822-2230

ATTENTION TO: Kevin Kim

PROJECT: TR1363B

AGAT WORK ORDER: 25Z267377

SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead

DATE REPORTED: Apr 14, 2025

PAGES (INCLUDING COVER): 6

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

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CANADA L4Z 1Y2
TEL (905)712-5100
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z267377

PROJECT: TR1363B

CLIENT NAME: GEOSYNTEC CONSULTANTS

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

O. Reg. 558 - Metals & Inorganics

DATE RECEIVED: 2025-04-04

DATE REPORTED: 2025-04-14

				SAMPLE DESCRIPTION:	TCLP_20250404
				SAMPLE TYPE:	Soil
				DATE SAMPLED:	2025-04-04 10:30
Parameter	Unit	G / S	RDL		6639026
Arsenic Leachate	mg/L	2.5	0.010		<0.010
Barium Leachate	mg/L	100	0.020		0.870
Boron Leachate	mg/L	500	0.050		<0.050
Cadmium Leachate	mg/L	0.5	0.010		<0.010
Chromium Leachate	mg/L	5	0.050		<0.050
Lead Leachate	mg/L	5	0.010		<0.010
Mercury Leachate	mg/L	0.1	0.01		<0.01
Selenium Leachate	mg/L	1	0.020		<0.020
Silver Leachate	mg/L	5	0.010		<0.010
Uranium Leachate	mg/L	10	0.050		<0.050
Fluoride Leachate	mg/L	150	0.10		0.20
Cyanide Leachate	mg/L	20	0.05		<0.05
(Nitrate + Nitrite) as N Leachate	mg/L	1000	0.70		<0.70

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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

Quality Assurance

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z267377

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

Soil Analysis

RPT Date: Apr 14, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 558 - Metals & Inorganics															
Arsenic Leachate	6640503		<0.010	<0.010	NA	< 0.010	100%	70%	130%	93%	80%	120%	92%	70%	130%
Barium Leachate	6640503		0.347	0.348	0.3%	< 0.020	107%	70%	130%	112%	80%	120%	106%	70%	130%
Boron Leachate	6640503		<0.050	<0.050	NA	< 0.050	88%	70%	130%	89%	80%	120%	93%	70%	130%
Cadmium Leachate	6640503		<0.010	<0.010	NA	< 0.010	102%	70%	130%	105%	80%	120%	105%	70%	130%
Chromium Leachate	6640503		<0.050	<0.050	NA	< 0.050	99%	70%	130%	96%	80%	120%	93%	70%	130%
Lead Leachate	6640503		<0.010	<0.010	NA	< 0.010	103%	70%	130%	95%	80%	120%	94%	70%	130%
Mercury Leachate	6640503		<0.01	<0.01	NA	< 0.01	100%	70%	130%	92%	80%	120%	92%	70%	130%
Selenium Leachate	6640503		<0.020	<0.020	NA	< 0.020	96%	70%	130%	102%	80%	120%	99%	70%	130%
Silver Leachate	6640503		<0.010	<0.010	NA	< 0.010	104%	70%	130%	97%	80%	120%	96%	70%	130%
Uranium Leachate	6640503		<0.050	<0.050	NA	< 0.050	101%	70%	130%	99%	80%	120%	99%	70%	130%
Fluoride Leachate	6640503		0.19	0.15	NA	< 0.10	109%	90%	110%	98%	90%	110%	98%	70%	130%
Cyanide Leachate	6640503		<0.05	<0.05	NA	< 0.05	100%	70%	130%	98%	80%	120%	108%	70%	130%
(Nitrate + Nitrite) as N Leachate	6640503		<0.70	<0.70	NA	< 0.70	105%	80%	120%	97%	80%	120%	100%	70%	130%

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

Certified By:

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Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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

Method Summary

CLIENT NAME: GEOSYNTEC CONSULTANTS

AGAT WORK ORDER: 25Z267377

PROJECT: TR1363B

ATTENTION TO: Kevin Kim

SAMPLING SITE:1309 Carling Ave, Ottawa ON

SAMPLED BY:Tristan Kennaley

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Arsenic Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Barium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Boron Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Cadmium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Chromium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Lead Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Mercury Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Selenium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Silver Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Uranium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Fluoride Leachate	INOR-93-6000	EPA SW 846-1311; SM 4500F-C	ION SELECTIVE ELECTRODE
Cyanide Leachate	INOR-93-6052	EPA 1311 modified from MOE 3015 SM 4500 CN-I,G387	SEGMENTED FLOW ANALYSIS
(Nitrate + Nitrite) as N Leachate	INOR-93-6053	EPA SW 846-1311 & modified from SM 4500 - NO3- I	LACHAT FIA

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Report Information:

Company: Geosyntec Consultants
Contact: Kevin Kim
Address: 130 Stone Road West, Guelph ON N1G 3Z2
Phone: 416.916.6005 Fax:
Reports to be sent to:
1. Email: Kevin.Kim@Geosyntec.com
2. Email: esdat+geosyntec@esdatlabsync.net

Project Information:

Project: TR1363B
Site Location: 309 Carling Ave, Ottawa ON
Sampled By: Tristan Kennaley
AGAT Quote #: 342166089 42 PO: TR1363B-6501

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

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Regulation 406
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
☒ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
_____ *Region*
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
_____ *Indicate One*

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

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

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 25226737 7
Cooler Quantity: 3, bagged ice
Arrival Temperatures: see attached
Depot Temperatures:
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☒ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TCLP_20250404	04/Apr/25	10:30 AM PM	2	S												X		
2.		AM PM																
3.		AM PM																
4.		AM PM																
5.		AM PM																
6.		AM PM																
7.		AM PM																
8.		AM PM																
9.		AM PM																
10.		AM PM																
11.		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Tristan Kennaley	4/Apr/25	12:45	V. Galeano	25/04/04	13:34
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
C to Pure	04/04/25	15h00	Arely Jm	2025/04/05	10:45 am
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 1

Nº: T-156213

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Document ID: DIV-78-1511.023

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Date Issued: Jan 18, 2024

AGAT Laboratories

Sample Temperature Log

Client: Geosyntec

COC# or Work Order #:

# of Coolers: 3

# of Submissions: 3

Arrival Temperatures - Branch/Driver

Cooler #1:	4.9	5.1	5.3
Cooler #2:	2.2	2.5	2.7
Cooler #3:	10.0	11.0	10.1
Cooler #4:			
Cooler #5:			
Cooler #6:			
Cooler #7:			
Cooler #8			
Cooler #9:			
Cooler #10:			

* One cooler also contains unused returned containers. *

IR Gun ID: M10T - 3071

Taken By: VO6

Date (yyyy/mm/dd): 2025/04/04 **Time:** 13 : 34 **AM / PM**

Arrival Temperatures - Laboratory

Cooler #1:	3.6	3.5	2.9
Cooler #2:	2.6	2.9	3.0
Cooler #3:	3.5	4.1	3.3
Cooler #4:			
Cooler #5:			
Cooler #6:			
Cooler #7:			
Cooler #8			
Cooler #9:			
Cooler #10:			

IR Gun ID: M15 - 3118

Taken By: Andy

Date (yyyy/mm/dd): 2025/04/05 **Time:** 10 : 45 **AM / PM**

Instructions for use of this form: 1) complete all fields of info including total # of coolers and # of submissions rec'd, 2) photocopy and place in each submission prior to giving a WO#, 3) Proceed as normal, write the WO# and scan (please make sure to scan along with the COC)

Appendix D
Legal Survey Of The Phase Two Property

OBSERVED REFERENCE POINTS DERIVED FROM GPS OBSERVATIONS USING THE CAN-NET VIRTUAL REFERENCE STATION NETWORK: UTM ZONE 17, NAD83 (CSRS)(1997.0). COORDINATES TO URBAN ACCURACY PER SEC 14(2) OF O.REG. 216/10		
POINT ID	NORTHING	EASTING
A	5027948.13	364753.62
B	5027616.80	364566.57
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.		

DETAIL
(NOT TO SCALE)

I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

DATE: May 28/20

BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

PLAN 4R- 32901
RECEIVED AND DEPOSITED
DATE: May 29, 2020
"D. Hanson"
REPRESENTATIVE FOR THE LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON (4).

SCHEDULE

PART	LOT	CONCESSION	PIN
1	PART OF 33	1 (OTTAWA FRONT)	PART OF 04025-0172
2			
3			
4			
5			
6			
7			
8			PART OF 04025-0170
9			PART OF 04025-0172
10			
11			PART OF 04025-0170
12			
13			PART OF 04025-0172
14			
15			
16			
17			PART OF 04025-0170
18			

PARTS 8, 12 & 18 ARE PART OF PIN 04025-0170.
THE REMAINING PARTS OF THE SCHEDULE ARE PART OF PIN 04025-0172.
PARTS 2, 6, 10 & 16 - SUBJECT TO EASEMENT INST. CR334034

PLAN OF SURVEY of
PART OF LOT 33
CONCESSION 1 (OTTAWA FRONT)
(GEOGRAPHIC TOWNSHIP OF NEPEAN)
CITY OF OTTAWA

Scale 1:500
10 0 10 20 30 METRES

METRIC CONVERSION

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

GRID SCALE CONVERSION

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.9999363.

BEARING NOTE

BEARINGS HEREON ARE GRID BEARINGS DERIVED FROM THE CAN-NET VRS NETWORK AND ARE REFERRED TO THE CENTRAL MERIDIAN 76° 30' WEST LONGITUDE OF THE 5° MTM ONTARIO COORDINATE SYSTEM, NAD83 (ORIGINAL) ZONE 9.

LEGEND

■	DENOTES	FOUND MONUMENTS
□	"	S MONUMENTS
IB	"	IRON BAR
IB⊕	"	ROUND IRON BAR
SIB	"	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
CC	"	CUT CROSS
CP	"	CONCRETE PIN
WIT	"	WITNESS
PIN	"	PROPERTY IDENTIFICATION NUMBER
M	"	MEASURED
PROP	"	PROPORTIONED
OU	"	ORIGIN UNKNOWN
SG	"	STANTEC GEOMATICS LTD.
P1	"	PLAN 5R-14579
P2	"	PLAN 4R-20932
P3	"	PLAN 4R-23434
P4	"	PLAN OF SURVEY BY FAIRHALL, MOFFATT & WOODLAND, O.L.S. DATED JUNE 2, 1981
P5	"	PLAN OF SURVEY BY FAIRHALL, MOFFATT & WOODLAND, O.L.S. DATED JANUARY 6, 1987
INST	"	INSTRUMENT No. CR708556

AREA TABLE	
PART	AREA SQ. M.
1	4932.04
2	145.09
3	336.78
4	278.56
5	195.03
6	8.87
7	141.88
8	349.37
9	886.78
10	37.94
11	818.69
12	281.73
13	127.80
14	1760.67
15	16590.68
16	653.49
17	9173.52
18	153.51

SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 19th DAY OF MAY, 2019.

May 28/20
DATE

BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

Stantec Geomatics Ltd.
CANADA LANDS SURVEYORS
ONTARIO LAND SURVEYORS
1331 CLYDE AVENUE, SUITE 400
OTTAWA, ONTARIO, K2C 3G4
TEL. 613.722.4420
stantec.com

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