GEMTEC
www.gemtec.ca

Soil Characterization Report
Infrastructure Upgrades Project
Eganville, Ontario

GEMTEC Project: 101260.004

GEMTEC
www.gemtec.ca

Submitted to:

Township of Bonnechere Valley
P.O. Box 100, 49 Bonnechere Street
Eganville, Ontario
K0J 1T0

Soil Characterization Report
Infrastructure Upgrades Project
Eganville, Ontario

June 10, 2026
GEMTEC Project: 101260.004

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive
Ottawa, ON, Canada
K2K 2A9
613.836.1422
ottawa@gemtec.ca
www.gemtec.ca

June 10, 2026 File: 101260.004

Township of Bonnechere Valley
P.O. Box 100, 49 Bonnechere Street
Eganville, Ontario
K0J 1T0

Attention: Annette Gilchrist, CMO, AOMC, CAO/Clerk/Deputy Treasurer

Re: Soil Characterization Report
Infrastructure Upgrades Project
Eganville, Ontario

Enclosed is the GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) Soil Characterization Report (SCR) as per the proposal dated February 13, 2026. The SCR was completed in general accordance with Ontario Regulation 406/19 and describes the interpreted environmental conditions at the Project Area based on laboratory analytical data compared to the applicable soil quality standards.

We trust this information is sufficient for your current needs. If you have any questions or require further information, please contact the undersigned.

Sincerely,

Jeffrey Gauthier, B.Eng.
Environmental Technologist

Daniel Elliot, P.Geo., QP_{ESA}
Senior Environmental Geoscientist

Mike Kosiw, B.Sc., EP, $CESA_{II}$
Contaminated Sites Lead

JG/DE/MK

EXECUTIVE SUMMARY

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by the Township of Bonnechere Valley to complete soil characterization to support excess soils management, planning and project registration for the proposed Infrastructure Upgrades Project, located in Eganville, Ontario (herein referred to as the 'Project Area'). The soil characterization program was based on the findings of an Assessment of Past Uses (APU) (GEMTEC, 2026).

The environmental sampling program was conducted in accordance with O. Reg 406/19, as outlined in GEMTEC's Sampling and Analysis Plan (SAP). The collection of samples for the investigation was carried out between April 7 to 13. Sampling was conducted at the frequencies set out in the SAP by advancing boreholes at previously selected locations within the Project Area. A total of 11 boreholes were advanced, and locations are provided in Figure A.1, Appendix A.

An anticipated excavation volume of approximately 5,600 m^3 of excess soil has been assumed based on correspondence with the Township of Bonnechere Valley. This initial soil sampling program included the submission of 31 bulk soil samples and three duplicate samples. The environmental sampling was carried out in conjunction with a geotechnical investigation.

The Contaminants of Potential Concern (COPCs) identified in the APU and investigated as part of this soil characterization program included: metals, hydride forming metals, electrical conductivity (EC), sodium absorption ratio (SAR), petroleum hydrocarbons fractions F1 to F4 (PHC F1-F4), benzene, toluene, ethylbenzene, and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs). One composite soil sample was submitted for Toxicity Characteristic Leaching Procedure (TCLP) analysis to further inform disposal options. Following a review of the results of the bulk analysis, six soil samples representative of the bulk samples with the highest concentrations were submitted for modified Synthetic Precipitation Leaching Procedure (mSPLP) analysis of metals.

Based on the results of the excess soil characterization program, GEMTEC makes the following conclusions:

- EC and/or SAR present across the site is attributed to road salting activities for vehicular and pedestrian safety. See below for restrictions on reuse for salt impacted soil.
- Fill material across the site is divided in two qualities:
    - Fill material that did not meet any ESQS and would require disposal at a MECP approved landfill was encountered at BH26-03
    - Fill material located at BH26-01, BH26-02, BH26-04 to BH26-06, BH26-08 to BH26-11 can be categorized as MECP Table 1 Ag/Ot SCS with the exceptions of EC/ SAR parameters attributed to road salting activities and under applicable asphalt reuse conditions.

- Native sand across the site generally met the MECP Table 1 Ag/Ot SCS with the exceptions of EC/ SAR parameters attributed to road salting activities, with the following exceptions:
    - Material from BH26-04 and BH26-05 met MECP Table 2.1 RPI ESQS with the exceptions of EC/ SAR parameters attributed to road salting activities; and
    - Material from BH26-01 and BH26-03 did not meet any ESQS, and must be disposed of as a MECP approved landfill.
- Since the TCLP sample results indicate that soil on the site is non-hazardous, all excavated soil can be disposed of at a Class 1 Soil Management Facility or at an MECP licensed landfill facility. However, under the current conditions of Ontario Regulation 406/19, effective January 1, 2027, soil of the quality described above will not be permitted for placement at an MECP licensed landfill except for daily cover, final cover, road or berm construction, or other ancillary uses that support landfill operations

TABLE OF CONTENTS

LIST OF TABLES

LIST OF APPENDICES

1.0 INTRODUCTION

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by the Township of Bonnechere Valley to complete soil characterization to support excess soils management, planning and project registration for the proposed infrastructure upgrades project, located in Eganville, Ontario (the 'Project Area'). The soil characterization program was based on the findings of an Assessment of Past Uses (APU) (GEMTEC, 2026). A total of 11 boreholes were advanced, and locations are provided in Figure A.1, Appendix A. The purpose of the soil sampling was to determine the presence or absence of contaminants of potential concern (COPCs).

2.0 BACKGROUND

2.1 Site Information

It is understood that the project will involve of the replacement or upgrades to the existing storm and sanitary sewers, and watermain along two street sections within Eganville, Ontario (John Street and Queen Street). Based on discussions with the Township of Bonnechere Valley, a placeholder of approximately 5,600 cubic metres (m^3) of excess soil is estimated to be generated as a result of the project. It is noted that this volume is based on high level estimates and may not be representative of the volumes that will be generated. The depth of excavation is not confirmed at this stage of design. The project is not anticipated to result in a change of property use within the Project Area.

A summary of the project limits is provided below.

- John Street from Highway 41, going east (approximately 530 metres (m))
- Easement from John Street to Highway 41 (approximately 100 m)
- Highway 41 from Louise Street to Queen Street (approximately 140 m)
- Queen Street from Highway 41 to Melanie Street (approximately 235 m)

Information for the existing sewers and watermain are not available at this time. As part of this proposal, it will be assumed that the maximum invert depth of the services is 3 m below surface, except along 100 m of Queen Street, west of Patrick Street, where the sewer is indicated to be at a depth of about 4.5 m.

2.2 Application of Ontario Regulation 406/19

It is GEMTEC's understanding that the Site meets the criteria to require registration as per Ontario Regulation (O.Reg) 406/19. Accordingly, this Soil Characterization Report (SCR) was prepared in accordance with O.Reg 406/19, and the associated Rules for Soil Management and Excess Soil Quality Standards, dated 2025 (Soil Rules) to support registration.

An anticipated excavation volume of approximately 5,600 m^3 of excess soil has been assumed based on correspondence with the Township of Bonnechere Valley.

2.3 Previous Investigations

2.3.1 Assessment of Past Uses

GEMTEC completed an APU to identify potentially contaminating activities (PCAs) within the Project Area and APU Study Area. PCAs were identified resulting in six Areas of Potential Environmental Concern (APECs) within the Project Area. A summary of the APECs, PCAs, and contaminants of potential concern (COPCs) is provided in Table 2.1. Figure A.2, Appendix A, indicates the APEC locations.

A Sampling and Analysis Plan (SAP) was prepared prior to the environmental soil investigation, as required by O.Reg. 406/19. The SAP summarized the APECs and associated COPCs, provided sampling frequency, and procedural requirements for sample collection.

The APU (GEMTEC, 2026) and SAP (GEMTEC, 2026) are each provided under separate cover.

Table 2.1: Summary of APECs

APEC	Location	PCA #	Description	COPCs
APEC 1	Across the developed portions of the Project Area	30	The Project Area is currently used as a municipal roadway. Fill of unknown origin is likely present across the portions of the Project Area developed as roadways.	Metals, Hydride Forming Metals, ORPs, PHCs BTEX, PAHs
APEC 2	Across the developed portions of the Project Area	OT.4	Salt compounds have likely been used on the roadways within the Project Area for de-icing purposes during the winter.	EC, SAR
APEC 3	Along John Street	46	Historic presence of the Canada Pacific Railway	Metals, PHCs, BTEX, PAHs, VOCs, PCBs
APEC 4	131 John Street	56	Operation of a wastewater treatment facility	Sulphates, phosphate, nitrate, nitrite, metals
APEC 5	176 Queen Street	28	Listed as operating with gasoline and diesel storage tanks.	PHCs, BTEX
APEC 6	78 Wellington Streett	28	Listed as operating with fuel oil tanks.	PHCs, BTEX

Notes:

Metals: Metals parameters as per O.Reg. 153/04
Hydride forming metals: antimony, arsenic, selenium)
ORP: Other Regulated Parameters including electrical conductivity (EC), sodium adsorption ratio (SAR), low or high pH, hot water-soluble boron (B HWS), hexavalent chromium (CrVI), mercury (Hg) and cyanide (CN-)
PHC – Petroleum Hydrocarbons (F1-F4)
BTEX – Benzene, Toluene, Ethylbenzene, and Xylenes
PAH – Polycyclic Aromatic Hydrocarbons
EC: Electric Conductivity
SAR: Sodium Adsorption Ratio
VOC – Volatile Organic Compounds
PCB – Polychlorinated Biphenyls
28 – Gasoline and Associated Products Storage in Fixed Tanks
30 – Importation of Fill Material of Unknown Quality
46 – Rail Yards, Tracks and Spurs
56 – Treatment of Sewage equal to or greater than 10,000 litres per day
OT.4 – Application of De-Icing Salt

3.0 METHODOLOGY

3.1 General

The environmental investigation was carried out by soil sample collection from boreholes which were advanced across the Site in conjunction with a geotechnical investigation.

3.2 Drilling

The drilling program was carried out between April 7 to 13, 2026. Eleven (11) boreholes were advanced using a truck mounted drill rig (T-09-1) supplied and operated by George Downing Estate Drilling Ltd (Downing).

Boreholes were advanced to between 2.94 m and 5.94 m bgs. The locations of the boreholes are provided on Figure A.1 in Appendix A.

3.3 Soil Sampling

The environmental investigation was conducted in general accordance with O.Reg. 406/19.

The field program was conducted by a member of GEMTEC's engineering staff acting under the direction of a Qualified Person (QP_{ESA}). Soil samples were collected from boreholes following the *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario* (MOE, 1996). Soil samples were split in the field into two components. One component was placed into laboratory-prepared container with minimal headspace as well as a pre-measured vial of methanol and stored in a cooler for laboratory analysis. The second component was placed inside a plastic bag for field screening. Soil screening included a description of the soil and noting the presence of any staining, odour, and/or debris. Soil vapour concentrations were measured from the headspace of the sealed plastic bag.

Clean gloves were worn and changed between each sample interval to prevent cross contamination. Soil samples were inspected in the field for visual, tactile, and olfactory evidence of impact, and following a period of equilibration to ambient temperature, soil sample vapours were screened using a photoionization detector and combustible gas detector.

Soil samples were selected based on soil vapour concentrations, and visual, tactile, and olfactory evidence of impact. Soil samples were submitted for analysis to Paracel Laboratories (Paracel) under standard chain-of-custody protocols, in accordance with GEMTEC Quality Assurance/ Quality Control (QA/QC) procedures, for one or more of the following parameters: metals, hydride forming metals, other regulated parameters, PHC F1-F4, BTEX, PAHs, VOCs, and/or PCBs. All modified synthetic precipitation leaching procedure (mSPLP) samples were submitted for metals and VOCs. The TCLP sample was submitted for analysis of metals, inorganics, VOCs, benzo[a]pyrene, and flashpoint.

3.4 Field Screening Measurements

Soil samples were screened using an RKI Eagle 2, which operates as a photoionization detector (PID) and combustible gas indicator (CGI), to measure total organic vapours and combustible vapours.

The PID/CGI detects volatile organic vapours and combustible vapours such as those associated with fuels. This instrument specifications are provided in the table below:

Table 3.1: Field Screening Instrument Specifications

Equipment	Parameters Detected	Detection Limit	Precision	Accuracy	Calibration Standard
RKI Eagle 2	Combustible gas	0-50,000 ppm	NA	±5%	Hexane (1650 ppm)
	Total organic vapour	0-2,000 ppm	NA	±5%	Isobutylene (100 ppm)

There are no regulatory criteria for soil vapours; however, elevated vapour concentrations are generally indicative of the presence of volatile parameters. Concentrations vary with parameter type, concentration, and age. Readings are only intended to be used as a field screening tool to provide a qualitative measure of volatile chemical concentrations within the subsurface. The readings do not provide a quantitative measure of analytical results.

The RKI Eagle 2 was obtained by GEMTEC from Maxim Environmental & Safety Inc. (Maxim) for this project. Maxim calibrates instruments on a regular basis to maintain consistent results.

4.0 SELECTION OF REGULATORY CRITERIA

In order to assess the suitability of the excess soil anticipated to be generated in association with the construction activities at the Project Area for off-site management, the bulk soil analytical results were compared to the following O.Reg. 406/19 Excess Soil Quality Standards (ESQS), as set out in the Soil Rules:

- Table 1: Full Depth Background Site Condition Standards, Agricultural or Other Property Use (Table 1 Ag/O SCS);
- Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, Residential / Parkland / Institutional Property Use (Table 2.1 RPI ESQS);
- Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, Industrial / Commercial / Community Property Use (Table 2.1 ICC ESQS);
- Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition, Industrial / Commercial / Community Property Use (Table 3.1 ICC ESQS); and
- Table 4.1: Stratified Excess Soil Quality Standards in a Potable Ground Water Condition, Industrial / Commercial / Community Property Use (Table 4.1 ICC ESQS).

The results of the samples submitted for testing via the mSPLP were compared to the corresponding Leachate Screening Levels (LSL), as set out in the Soil Rules.

The results of the sample submitted for testing via the TCLP were compared to the O.Reg. 347 Schedule 4 leachate criteria.

5.0 SOIL QUALITY RESULTS

5.1 Soil Condition and Description

The general description of the soil observed during the field investigation consisted of asphaltic concrete with a thickness ranging from about 100 to 180 millimeters underlain by fill material composed of sand with varying amounts of gravel and silt. The fill layer had thicknesses ranging from about 580 to 1420 millimetres.

Under the fill material was native materials consisting of silt or sand with varying amounts sand, silt, and gravel, with depths ranging from about 1.12 to 2.13 m bgs. Glacial till consisting of sand with varying amounts of silt and gravel, and/or trace clay, was encountered to depths ranging from 1.55 to 5.94 m bgs.

Detailed borehole logs are provided in Appendix B.

5.2 Soil Screening Results

Soil vapour readings and combustible gas readings were observed and can be found in the Borehole Logs in Appendix B. Combustible gases were measured between 0 and 320 parts per million (ppm). Organic vapours were measured between 0 and 16 ppm.

5.3 Analytical Results

A summary of exceedances based on the selected standards, as outlined above, is provided below in Table 5.1 for the bulk analysis and Table 5.2 for the leachate analyses. Detailed analytical summary tables are provided in Tables C.1 to C.4, Appendix C. Identified exceedances are shown by borehole location on Figures A.3 to A.4., Appendix A. Laboratory certificates of analysis are provided in Appendix D.

Samples of road structure, typically aggregate material, with elevated concentrations of PHC F3, F4, F4G, and/or PAHs were reviewed as potentially asphalt impacted. Chromatographs were examined for samples with elevated PHC and the depth and type of soil were reviewed for all samples with elevated PHC and PAH parameters. It is the QP's opinion that select samples identified in Table 5.1 below are asphalt impacted and could be managed as such. These samples were collected from soil that was in contact or adjacent to the asphalt surface, consisted of aggregate material as part of the road structure, and, where applicable, had a chromatograph that was similar to asphalt standards provided by the analytical laboratory.

Table 5.1: Summary of Bulk Analytical Results for Soil Samples

Soil Samples	Sampling Date (dd/mm/yyyy)	Depth of samples (m bgs)	Analysis	MECP Exceedances				
				MECP Table 1 Agri SCS[1]	MECP Table 2.1 RPI ESQS[2]	MECP Table 2.1 ICC ESQS[3]	MECP Table 3.1 ICC ESQS[4]	MECP Table 4.1 ICC ESQS – Subsurface[5]
BH26-01 SA1	2026-04-07	0.33 - 0.61	M&I, PAHs, PCBs, VOCs/PHC F1-F4	SAR	None	None	None	None
BH26-01 SA2	2026-04-07	0.61 - 1.52	M&I, VOCs/PHC F1-F4	Lead, Mercury, Molybdenum, VOCs, PHCs (F1, F2, F3, F4, F4G), EC, SAR	Mercury, PHCs (F1, F2, F3)	Mercury, PHCs (F1, F2, F3)	Mercury, PHCs (F1, F2, F3)	PHCs (F1, F2, F3)
BH26-02 SA1A	2026-04-10	0.10 - 0.41	M&I, PAHs, PCBs, VOCs/PHC F1-F4	PHC (F3, F4, F4G), EC, SAR	PHC F3, EC, SAR	PHC F3, EC, SAR	PHC F3, EC, SAR	PHC F3, EC, SAR
BH26-02 SA2A	2026-04-10	0.76 - 1.12	M&I, VOCs/PHC F1-F4	SAR	SAR	None	None	None
BH26-03 SA1A	2026-04-10	0.18 - 0.38	M&I, PAHs, PCBs, VOCs/PHC F1-F4	Benzo(a)pyrene, 2-and 1-methyl Naphthalene, PHCs (F4, F4G) EC, SAR	None	None	None	None
BH26-03 SA1B	2026-04-10	0.38 - 0.64	M&I, PAHs, VOCs/PHC F1-F4	Antimony, Lead, VOCs, PHC F2, EC, SAR	Lead, PHC F2	Lead	Lead	None
BH26-03 SA2	2026-04-10	0.76 - 1.37	M&I, VOCs/PHC F1-F4	Lead, Mercury, EC, SAR	Mercury, EC, SAR	Mercury, EC	Mercury, EC	EC
BH26-04 SA1	2026-04-10	0.15 - 0.61	M&I, PAHs, PCBs, VOCs/PHC F1-F4	PHCs (F4, F4G), SAR	None	None	None	None
BH26-04 SA2	2026-04-10	0.76 - 1.37	M&I, VOCs/PHC F1-F4	SAR	None	None	None	None
BH26-04 SA3	2026-04-10	1.52 - 2.13	M&I, VOCs/PHC F1-F4	Tetrachloroethylene, SAR	None	None	None	None

Soil Samples	Sampling Date (dd/mm/yyyy)	Depth of samples (m bgs)	Analysis	MECP Exceedances				
				MECP Table 1 Agri SCS[1]	MECP Table 2.1 RPI ESQS[2]	MECP Table 2.1 ICC ESQS[3]	MECP Table 3.1 ICC ESQS[4]	MECP Table 4.1 ICC ESQS – Subsurface[5]
BH26-05 SA1	2026-04-13	0.10 - 0.56	M&I, PAHs, PCBs, VOCs/PHC F1-F4	PHCs (F4, F4G), EC, SAR	EC, SAR	None	None	None
BH26-05 SA2B	2026-04-13	0.91 - 1.37	M&I, VOCs/PHC F1-F4	Barium, Selenium, EC, SAR	EC, SAR	None	None	None
BH26-06 SA1	2026-04-13	0.15 - 0.61	M&I, PAHs, PCBs, VOCs/PHC F1-F4	PHCs (F3, F4, F4G), EC, SAR	PHC F3, EC, SAR	PHC F3	PHC F3	PHC F3
BH26-06 SA101	2026-04-13	0.15 - 0.61	M&I, VOCs/PHC F1-F4	PHCs (F2, F3, F4, F4G), EC, SAR	PHCs (F2, F3 F4G), EC, SAR	PHCs (F2, F3)	PHCs (F2, F3)	PHCs (F2, F3)
BH26-06 SA2	2026-04-13	0.76 - 1.37	M&I, VOCs/PHC F1-F4	EC, SAR	None	None	None	None
BH26-07 SA2	2026-04-11	0.76 - 1.37	M&I, PAHs, BTEX/PHC F1-F4	Antimony, Lead, PAHs	None	None	None	None
BH26-07 SA4	2026-04-11	2.29 - 2.90	M&I, BTEX/PHC F1-F4	SAR	None	None	None	None
BH26-08 SA1	2026-04-08	0.13 - 0.61	M&I, PAHs, BTEX/PHC F1-F4	PHCs (F4, F4G), EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH26-08 SA3	2026-04-08	1.52 - 2.13	M&I, BTEX/PHC F1-F4	EC, SAR	EC, SAR	None	None	None
BH26-08 SA5	2026-04-08	3.00 - 3.61	M&I, BTEX/PHC F1-F4	SAR	None	None	None	None
BH26-09 SA2	2026-04-08	0.76 - 1.37	M&I, PAHs, BTEX/PHC F1-F4	PHCs (F4, F4G), EC, SAR	None	None	None	None

Soil Samples	Sampling Date (dd/mm/yyyy)	Depth of samples (m bgs)	Analysis	MECP Exceedances				
				MECP Table 1 Agri SCS[1]	MECP Table 2.1 RPI ESQS[2]	MECP Table 2.1 ICC ESQS[3]	MECP Table 3.1 ICC ESQS[4]	MECP Table 4.1 ICC ESQS – Subsurface[5]
BH26-09 SA102	2026-04-08	0.76 - 1.37	M&I, BTEX/PHC F1-F4	EC, SAR	EC, SAR	None	None	None
BH26-09 SA4	2026-04-08	2.29 - 2.90	M&I, BTEX/PHC F1-F4	SAR	None	None	None	None
BH26-10 SA1	2026-04-09	0.10 - 0.61	M&I, PAHs, BTEX/PHC F1-F4	PHCs (F4, F4G), SAR	None	None	None	None
BH26-10 SA3	2026-04-09	1.52 - 2.13	M&I, BTEX/PHC F1-F4	SAR	None	None	None	None
BH26-10 SA5	2026-04-09	3.00 - 3.61	M&I, BTEX/PHC F1-F4	SAR	None	None	None	None
BH26-11 SA2	2026-04-09	0.76 - 1.37	M&I, PAHs, BTEX/PHC F1-F4	PHCs (F4, F4G), SAR	None	None	None	None
BH26-11 SA102	2026-04-09	0.76 - 1.37	M&I, PAHs, BTEX/PHC F1-F4	PHCs (F4, F4G), SAR	None	None	None	None
BH26-11 SA4	2026-04-09	2.29 - 2.54	M&I, BTEX/PHC F1-F4	PHCs (F4, F4G)	None	None	None	None
BH26-11 SA5	2026-04-09	3.00 - 3.51	M&I, BTEX/PHC F1-F4	None	None	None	None	None

Notes:

m bgs – metres below ground surface
ppm – parts per million
M&I – Metals and Inorganics
PAHs – Polycyclic Aromatic Hydrocarbons
BTEX – Benzene, Toluene, Ethylbenzene, Xylenes
VOCs – Volatile Organic Compounds
PHC F1-F4 – Petroleum Hydrocarbons Four Fractions
EC – Electrical Conductivity
SAR – Sodium Adsorption Ratio
Green – Inferred to be the results of the application of de-icing salt within the Project Area.
Orange – Through application of Section D, item (3) asphalt impacted soils, material can be re-used with certain restrictions.
1. MECP Table 1 Ag/Ot SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agri/Ot.

2. MECP Table 2.1 RPI ESQS: MECP, Soil Rules, October 2025. Full Depth ESQS in a Potable Ground Water Condition for RPI Property Use.
3. MECP Table 2.1 ICC ESQS: MECP, Soil Rules, October 2025. Full Depth ESQS in a Potable Ground Water Condition for ICC Property Use.
4. MECP Table 3.1 ICC ESQS: MECP, Soil Rules, October 2025. Full Depth ESQS in a Non-Potable Ground Water Condition for ICC Property Use.
5. MECP Table 4.1 ICC ESQS: MECP, Soil Rules, October 2025. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface

Table 5.2: Summary of Analytical Results for TCLP and SPLP Soil Samples

TCLP Sample ID	O.Reg. 347/558 Exceedances[1]				
TCLP	None				
mSPLP Sample ID	**MECP Table 1 Agri LSL[2]**	**MECP Table 2.1 RPI LSL[3]**	**MECP Table 2.1 ICC LSL[4]**	**MECP Table 3.1 ICC LSL[5]**	**MECP Table 4.1 ICC LSL[6]**
BH26-01 SA2	None	None	None	None	Lead
BH26-03 SA1B	None	None	None	None	Lead
BH26-03 SA2	Tetrachloroethylene	Tetrachloroethylene	None	None	Lead
BH26-04 SA3	Tetrachloroethylene	Tetrachloroethylene	None	None	None
BH26-07 SA2	None	None	None	None	Lead
BH26-07 SA4	None	None	None	None	Lead

Notes:

1 - O.Reg 347/558 Schedule 4: O.Reg 347 and O.Reg 588/00: General – Waste Management. Schedule 4: Leachate Quality Criteria (MECP, 2011)
2. MECP Table 1 Ag/Ot LSL: Ontario Ministry of the Environment, Conservation and Parks (MECP), "Rules for Soil Management and Excess Soil Quality Standards" (Soil Rules), October 2025. Leachate Screening Levels (LSL) for Full Depth Background Site Condition Standards for Agri/Ot Property Use.
3. MECP Table 2.1 RPI LSL: MECP, Soil Rules, October 2025. LSL for Full Depth Excess Soil in a Potable Ground Water Condition for RPI Property Use.
4. MECP Table 2.1 ICC LSL: MECP, Soil Rules, October 2025. LSL for Full Depth Excess Soil in a Potable Ground Water Condition for ICC Property Use.
5. MECP Table 3.1 ICC LSL: MECP, Soil Rules, October 2025. LSL for Full Depth Excess Soil in a Non-Potable Ground Water Condition for ICC Property Use.
6. MECP Table 4.1 ICC LSL: MECP, Soil Rules, October 2025. LSL for Stratified Excess Soil in a Potable Ground Water Condition for ICC Property Use - Subsurface.

.

5.4 Quality Assurance/Quality Control

5.4.1 Field QA/QC Program

The QA/QC program consisted of the use of industry standard field protocols and the collection of blind field duplicates. To measure procedural reproducibility, blind duplicates are submitted for laboratory analysis to evaluate laboratory precision, the implemented field sampling and handling procedures, and sample homogeneity. The relative percent difference (RPD) of analytical results from each parent – duplicate pair is then calculated. The RPD is defined as the absolute value of the variation between a sample and its duplicate, when compared to the average concentration of the original and the duplicate.

The following parent - duplicate samples were collected as part of the environmental investigation:

- BH26-06 SA1 and BH26-06 SA101
  - PHC F4 and F4G RPD values exceeded the acceptable range.
- BH26-09 SA2 and BH26-09 SA102
  - PHC F3 and F4 RPD values exceeded the acceptable range.
- BH26-11 SA2 and BH26-11 SA102
  - PHC F3 RPD value exceeded the acceptable range.

The elevated RPD values are inferred to be the result of the heterogeneous nature of fill and soil. The calculated RPDs for the majority of parameters were acceptable and their duplicates do not suggest inconsistencies in the field collection or the laboratory analysis methods.

5.4.2 Analytical Laboratory QA/QC

Soil samples were submitted to Paracel Laboratories (Paracel) during the environmental soil quality field investigation. Paracel completed a variety of internal QA/QC measures on the submitted soil samples. Paracel is accredited by the Standards Council of Canada (SCC) in cooperation with the Canadian Association of Laboratory Accreditation (CALA) for specific environmental tests listed in the scope of accreditation approved by the SCC and registered with CALA. Paracel is accredited to the ISO/IEC 17025 standard and employ in-house quality assurance and quality control programs to govern sample analysis including the analysis of method blanks, spiked blanks, and the analysis of duplicates (10%) for each sample batch.

Report 2616424 summarized:

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

Note that any report not summarized here specifically did not have any QC qualifiers.

5.4.3 QA/QC Summary

Based on the measures discussed above, sample collection and handling protocols are considered acceptable and associated analytical results are considered reliable. The sample collection methods do not suggest significant inconsistencies in the field collection or in the laboratory analysis methods.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the excess soil characterization program, GEMTEC makes the following conclusions:

- EC and/or SAR present across the site is attributed to road salting activities for vehicular and pedestrian safety. See below for restrictions on reuse for salt impacted soil.
- Fill material across the site is divided in two qualities:
    - Fill material that did not meet any ESQS and would require disposal at a MECP approved landfill was encountered at BH26-03
    - Fill material located at BH26-01, BH26-02, BH26-04 to BH26-06, BH26-08 to BH26-11 can be categorized as MECP Table 1 Ag/Ot SCS with the exceptions of EC/ SAR parameters attributed to road salting activities and under applicable asphalt reuse conditions.
- Native sand across the site generally met the MECP Table 1 Ag/Ot SCS with the exceptions of EC/ SAR parameters attributed to road salting activities, with the following exceptions:
    - Material from BH26-04 and BH26-05 met MECP Table 2.1 RPI ESQS with the exceptions of EC/ SAR parameters attributed to road salting activities; and
    - Material from BH26-01 and BH26-03 did not meet any ESQS, and must be disposed of as a MECP approved landfill.

It should be noted that Lead exceeded Table 4.1 LSL for all mSPLP analyzed and if lead meets Table 2.1 RPI/ICC and is finally deposited in accordance with those requirements, there are no concerns about the reported exceedances.

Disposal Options

- Since the TCLP sample results indicate that soil on the site is non-hazardous, all excavated soil can be disposed of at a Class 1 Soil Management Facility or at an MECP licensed landfill facility. However, under the current conditions of Ontario Regulation 406/19, effective January 1, 2027, soil of the quality described above will not be permitted for placement at an MECP licensed landfill except for daily cover, final cover, road or berm construction, or other ancillary uses that support landfill operations.
-

Salt Allowance Requirements

The beneficial reuse of salt impacted soil is permitted in some instances, as long as reuse of these soils adhere to the requirements as summarized in the Soil Rules for reuse of 'Salt-Impacted Excess Soil', namely:

- The excess soil is finally placed at one of the following locations:
  - where it is reasonable to expect that the soil will be affected by the same chemicals as a result of continued application of a substance for the safety of vehicular or pedestrian traffic under conditions of snow or ice;
  - at an industrial or commercial property use;
  - at least 1.5 metres below the surface of the soil; or
  - at a reuse site with residential, parkland, or institutional land use where a landscape plan as described in the Soil Rules has been prepared.

AND:

- The excess soil is not finally placed at any of the following locations:
  - within 30 metres of a waterbody;
  - within 100 metres of a potable water well or area with an intended property use that may require a potable water well; or,
  - a location that will be used for growing crops or pasturing livestock unless the excess soil is placed 1.5 metres or greater below the soil surface.

AND:

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

Asphalt Impacted Soil

The beneficial reuse of asphalt-impacted excess soil is permitted in certain circumstances, provided that reuse complies with the requirements summarized in the Soil Rules for reuse of "Asphalt-Impacted Excess Soil," namely:

Asphalt-impacted excess soil may be finally placed at:

- Any area at a reuse site that will be covered by asphalt pavement (e.g., roads, parking lots) and associated road shoulders; or,
- Road rights-of-way adjacent to asphalt roads, including landscaping and medians within or beside a road.

Prohibited Final Placement Locations, asphalt-impacted excess soil shall not be placed at:

- Areas associated with asphalt paths within reuse sites used for parkland or agricultural/other property uses; and,
- Areas within ditches, municipal drains, or other water conveyance features unless the water is conveyed to a municipal sanitary sewer.

Additional Requirements

- Asphalt-impacted excess soil must be segregated from other soil types during storage and transport; and,
- Compliance with all applicable soil storage and management rules to prevent adverse effects (e.g., leaching, runoff, dust).

7.0 LIMITATION OF LIABILITY

This report and the work referred to within it has been undertaken by GEMTEC Consulting Engineers and Scientists Limited for Township of Bonnechere Valley. It is intended for the exclusive use of Township of Bonnechere Valley. This report may not be relied upon by any other person or entity without the express written consent of GEMTEC Consulting Engineers and Scientists Limited and Township of Bonnechere Valley. Nothing in this report is intended to provide a legal opinion.

The investigation undertaken by GEMTEC with respect to this report and any conclusions or recommendations made in this report reflect the best judgements of GEMTEC based on the Site conditions observed during the investigations undertaken at the date(s) identified in the report and on the information available at the time the report was prepared. This report has been prepared for the application noted and it is based, in part, on visual observations made at the Site, soil conditions at the test pit locations and laboratory analyses of specific chemical parameters and material during a specific time interval, all as described in the report. Unless otherwise stated, the findings contained in this report cannot be extrapolated or extended to previous or future Site conditions, portions of the site that were unavailable for direct investigation, subsurface locations on the Site that were not investigated directly, or chemical parameters, materials or analysis which were not addressed. Chemical parameters other than those addressed by the investigation described in this report may exist in soil and groundwater elsewhere on the Site, the chemical parameters addressed in the report may exist in soil and groundwater at other locations at the Site that were not investigated and concentrations of the chemical parameters addressed which are different than those reported may exist at other locations on the site than those from where the samples were taken.

Should new information become available during future work, including excavations, borings, or other studies, GEMTEC should be requested to review the information and, if necessary, re-assess the conclusions presented herein.

8.0 REFERENCES

GEMTEC Consulting Engineers and Scientist Limited (GEMTEC). 2026. Assessment of Past Uses, Infrastructure Upgrades Project, Ottawa, Ontario. Dated April 20, 2026.

GEMTEC. 2026. Sampling and Analysis Plan, Infrastructure Upgrades Project, Ottawa, Ontario. Dated April 23, 2026.

Ontario Ministry of the Environment and Climate Change (MOECC). Guidance on sampling and analytical methods for use at contaminated sites in Ontario. Revised December 1996.

Ontario Regulation 347, General Waste Management.

Ontario Regulation 406/19, – On-site and Excess Soil Management.

Ontario Ministry of the Environment, Conservation and Parks (MECP). Rules for Soil Management and Excess Soil Quality Standards. October 2025.

9.0 QUALIFIED PERSON DECLARATION

The Qualified Person (QP) responsible for this report makes the following declarations, as per O.Reg. 406/19:

- The Project Leader or operator of the Project Area have provided the QP or an individual supervised by the QP with the necessary information and access to the Project Area and authorized the QP or an individual supervised by the QP to make any inquiries of the Project Leader and operator's employees and agents, for the purpose of assisting the QP in preparing and/or overseeing the preparation of this document.
- The QP confirms that he/she was responsible for the preparation, oversight and/or review of this document.
- The QP confirms that the document is complete and accurate and meets the requirements of the regulation and the Soil Rules to the best of the QP's knowledge, subject to the limitations set out within our proposal and this report.

10.0 CLOSURE

We trust this report provides sufficient information for your present purposes. If you have any questions concerning this report, please do not hesitate to contact our office.

Sincerely,

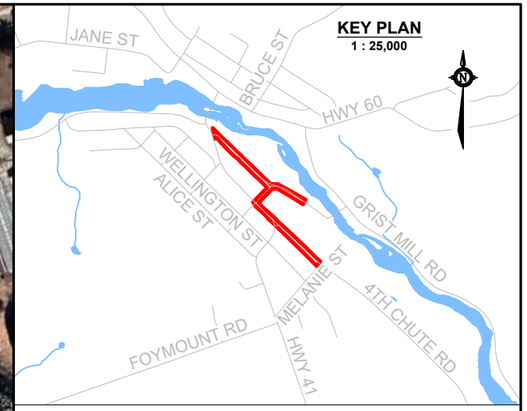
Jeffrey Gauthier, B.Eng.
Environmental Technologist

Daniel Elliot, B.Sc., P.Geo., QP_{ESA}
Senior Environmental Geoscientist

Mike Kosiw, B.Sc., EP, $CESA_{II}$
Contaminated Sites Lead

APPENDIX A

Figures



LEGEND

- **BH #** — BOREHOLE ID
- **XX.XX** — GROUND SURFACE ELEVATION, IN METRES GEODETIC DATUM
- BOREHOLE LOCATION (current investigation by GEMTEC)
- APU PROPERTY BOUNDARY

DATA SOURCES AND REFERENCES

1. Coordinate system: CSRS.UTM-18N
2. Distances, elevations, and coordinates are shown in metres unless denoted otherwise
3. This drawing is a schematic representation and should not be taken as a substitute for a legal survey.
4. Image @2026 Google Maps, CNES / Airbus, First Base Solutions, Maxar Technologies
5. Contains information licensed under the Open Government Licence – Ontario
6. Geographic dataset source: Ontario GeoHub

SCALE 1:2,500

0 50 100 150m

DRAWING
SITE PLAN

CLIENT
TOWNSHIP OF BONNECHERE VALLEY

PROJECT
SOIL CHARACTERIZATION REPORT
INFRASTRUCTURE UPGRADES PROJECT
EGANVILLE, ONTARIO

DRAWN BY	CHECKED BY
SL	JG/DE/MK
PROJECT NO. 101260.004	REVISION NO. 0
DATE JUNE 2026	FIGURE NO. **FIGURE A.1**

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON, K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca

N:\PROJECTS\101200\101260.004\06_CIVIL DRAFTING\SCR R0\101260.004_SCR_R0_2026_05.DWG

LEGEND

BH # — BOREHOLE ID
XX.XX — GROUND SURFACE ELEVATION, IN METRES GEODETIC DATUM

BOREHOLE LOCATION (current investigation by GEMTEC)

APPROXIMATE SITE BOUNDARY

AREA OF POTENTIAL ENVIRONMENTAL CONCERN

APEC #	DESCRIPTION
APEC 1	Importation of fill material of unknown quality for roadway construction. PCA #30
APEC 2	Application of salt for the purposes of de-icing and public safety. PCA #OT.3
APEC 3	Historic Canadian Pacific Railway. PCA #46
APEC 4	Operation of wastewater treatment facility. PCA #56
APEC 5	Property operating with gasoline and diesel storage tanks. PCA #28
APEC 6	Property operating with fuel oil storage tanks. PCA #28

DATA SOURCES AND REFERENCES

1. Coordinate system: CSRS.UTM-18N
2. Distances, elevations, and coordinates are shown in metres unless denoted otherwise
3. This drawing is a schematic representation and should not be taken as a substitute for a legal survey.
4. Image @2026 Google Maps, CNES / Airbus, First Base Solutions, Maxar Technologies
5. Contains information licensed under the Open Government Licence – Ontario
6. Geographic dataset source: Ontario GeoHub

SCALE 1:2,500

0 50 100 150m

DRAWING
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

CLIENT
TOWNSHIP OF BONNECHERE VALLEY

PROJECT
SOIL CHARACTERIZATION REPORT
INFRASTRUCTURE UPGRADES PROJECT
EGANVILLE, ONTARIO

DRAWN BY: SL	CHECKED BY: JG/DE/MK
PROJECT NO.: 101260.004	REVISION NO.: 0
DATE: JUNE 2026	FIGURE NO.: **FIGURE A.2**

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON, K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca

N:\PROJECTS\101200\101260.004\06_CIVIL DRAFTING\SCR R0\101260.004_SCR_R0_2026_05.DWG

Sample ID:	BH26-07 SA2	BH26-07 SA4
Laboratory Sample ID:	2616041-11	2616041-12
Date Sampled (m/dd/yyyy):	2026-04-11	2026-04-11
Sample Depth (mbgs):	0.76 - 1.37	2.29 - 2.90
Parameter		
Metals & Inorgaics		
Antimony	4.4	<1.0
Lead	53.9	24.7
Sodium Adsorption Ratio (2:1 (Calc.	0.95	2.14
Polycyclic Aromatic Hydrocarbons		
Benzo(a)anthracene	0.14	N/A
Benzo(a)pyrene	0.21	N/A
Benzo(k)fluoranthene	0.07	N/A
Pyrene	0.21	N/A

Sample ID:	BH26-08 SA1	BH26-08 SA3	BH26-08 SA5
Laboratory Sample ID:	2616041-13	2616041-14	2616041-15
Date Sampled (m/dd/yyyy):	2026-04-08	2026-04-08	2026-04-08
Sample Depth (mbgs):	0.13 - 0.61	1.52 - 2.13	3.00 - 3.61
Parameter			
Metals & Inorgaics			
Sodium Adsorption Ratio (2:1 (Calc.	***33.3***	**7.8**	1.11
Electrical Conductivity (2:1	***2.17***	**1.03**	0.187

Sample ID:	BH26-09 SA2	BH26-09 SA102	BH26-09 SA4
Laboratory Sample ID:	2616041-16	2616041-17	2616041-18
Date Sampled (m/dd/yyyy):	2026-04-08	2026-04-08	2026-04-08
Sample Depth (mbgs):	0.76 - 1.37	0.76 - 1.37	2.29 - 2.90
Parameter			
Metals & Inorgaics			
Sodium Adsorption Ratio (2:1 (Calc.)	**6.65**	**5.82**	1.31
Electrical Conductivity (2:1	**0.948**	**0.915**	0.204

Parameter	Units	MDL	MECP Table 1 Agri Property Use[1]	MECP Table 2.1 RPI Property Use[2]	MECP Table 2.1 ICC Property Use[3]	MECP Table 3.1 ICC Property Use[4]	MECP Table 4.1 ICC Property Use[5]
Metals & Inorgaics - Bulk							
Antimony	µg/g	1	1	7.5	40	40	63
Barium	µg/g	1	210	390	670	670	7700
Lead	µg/g	1	45	120	120	120	1000
Mercury	µg/g	0.1	0.16	0.27	0.27	0.27	1.9
Molybdenum	µg/g	1	2	6.9	40	40	1200
Selenium	µg/g	1	1.2	2.4	5.5	5.5	1200
Sodium Adsorption Ratio (2:1) (Calc	N/A	-	1	5	12	12	12
Electrical Conductivity (2:1)	mS/cm	0.005	0.47	0.7	1.4	1.4	1.4
Polycyclic Aromatic Hydrocarbons							
Benzo(a)anthracene	µg/g	0.02	0.095	0.5	0.92	1	0.92
Benzo(a)pyrene	µg/g	0.02	0.05	0.31	0.31	0.7	0.31
Benzo(k)fluoranthene	µg/g	0.02	0.05	3.1	3.1	7	3.1
2-and 1-methyl Naphthalene	µg/g	0.02	0.05	0.59	0.59	8.7	0.59
Pyrene	µg/g	0.02	0.19	28	28	70	28

Sample ID:	BH26-05 SA1	BH26-05 SA2B
Laboratory Sample ID:	2616096-01	2616096-02
Date Sampled (m/dd/yyyy):	2026-04-13	2026-04-13
Sample Depth (mbgs):	0.10 - 0.56	0.91 - 1.37
Parameter		
Metals & Inorgaics		
Barium	39.3	221
Selenium	<1.0	1.3
Sodium Adsorption Ratio	**10**	**6.38**
Conductivity @25°C	**1.06**	**0.874**

Sample ID:	BH26-01 SA1	BH26-01 SA2
Laboratory Sample ID:	2616041-01	2616041-02
Date Sampled (m/dd/yyyy):	2026-04-07	2026-04-07
Sample Depth (mbgs):	0.33 - 0.61	0.61 - 1.52
Parameter		
Metals & Inorgaics		
Lead	5.4	52.4
Mercury	<0.1	***0.3***
Molybdenum	<1.0	2.1
Sodium Adsorption Ratio (2:1) (Calc.)	2.99	3.73
Electrical Conductivity (2:1)	0.415	0.637

Sample ID:	BH26-10 SA1	BH26-10 SA3	BH26-10 SA5
Laboratory Sample ID:	2616041-19	2616041-20	2616041-21
Date Sampled (m/dd/yyyy):	2026-04-09	2026-04-09	2026-04-09
Sample Depth (mbgs):	0.10 - 0.61	1.52 - 2.13	3.00 - 3.61
Parameter			
Metals & Inorgaics			
Sodium Adsorption Ratio (2:1 (Calc.	1.1	3.06	1.83

Sample ID:	BH26-11 SA2	BH26-11 SA102
Laboratory Sample ID:	2616041-22	2616041-23
Date Sampled (m/dd/yyyy):	2026-04-09	2026-04-09
Sample Depth (mbgs):	0.76 - 1.37	0.76 - 1.37
Parameter		
Metals & Inorgaics		
Sodium Adsorption Ratio (2:1 (Calc.	1.05	1.09

LEGEND

- BH # — BOREHOLE ID
- XX.XX — GROUND SURFACE ELEVATION, IN METRES GEODETIC DATUM
- BOREHOLE LOCATION (current investigation by GEMTEC)
- APPROXIMATE SITE BOUNDARY

Notes:

1 - MECP Table 1 Agri Property Use: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agricultural or Other Property Use (Agri/Ot).

2 - MECP Table 2.1 RPI Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Potable Ground Water Condition for RPI Property Use.

3 - MECP Table 2.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Potable Ground Water Condition for ICC Property Use.

4 - MECP Table 3.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Non-Potable Ground Water Condition for ICC Property Use.

5 - MECP Table 4.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.

Shaded	- Exceeds MECP Table 1 Agri SCS or Leachate
Bold	- Exceeds MECP Table 2.1 RPI ESQS or Leachate
Italics	- Exceeds MECP Table 2.1 ICC ESQS or Leachate
RED	- Exceeds MECP Table 3.1 ICC ESQS or Leachate
Underlined	- Exceeds MECP Table 4.1 ICC - Subsurface ESQS or Leachate

DATA SOURCES AND REFERENCES

1. Coordinate system: CSRS.UTM-18N
2. Distances, elevations, and coordinates are shown in metres unless denoted otherwise
3. This drawing is a schematic representation and should not be taken as a substitute for a legal survey.
4. Image @2026 Google Maps, CNES / Airbus, First Base Solutions, Maxar Technologies
5. Contains information licensed under the Open Government Licence – Ontario
6. Geographic dataset source: Ontario GeoHub

SCALE 1:2,500

0 50 100 150m

DRAWING: SOIL EXCEEDANCES (M&I, PAHs)

CLIENT: TOWNSHIP OF BONNECHERE VALLEY

PROJECT: SOIL CHARACTERIZATION REPORT INFRASTRUCTURE UPGRADES PROJECT EGANVILLE, ONTARIO

DRAWN BY	CHECKED BY
SL	JG/DE/MK
PROJECT NO. 101260.004	REVISION NO. 0
DATE JUNE 2026	FIGURE NO. **FIGURE A.3**

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON, K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca

N:\PROJECTS\101200\101260.004\06_CIVIL DRAFTING\SCR R0\101260.004_SCR_R0_2026_05.DWG

Sample ID:	BH26-02 SA1A	BH26-02 SA2A
Laboratory Sample ID:	2616041-03	2616041-04
Date Sampled (m/dd/yyyy):	2026-04-10	2026-04-10
Sample Depth (mbgs):	0.10 - 0.41	0.76 - 1.12
Parameter		
Metals & Inorgaics		
Sodium Adsorption Ratio	***14.8***	**6.17**
Conductivity @25°C	***1.58***	0.611

Sample ID:	BH26-03 SA1A	BH26-03 SA1B	BH26-03 SA2
Laboratory Sample ID:	2616041-05	2616041-06	2616041-07
Date Sampled (m/dd/yyyy):	2026-04-10	2026-04-10	2026-04-10
Sample Depth (mbgs):	0.18 - 0.38	0.38 - 0.64	0.76 - 1.37
Parameter			
Metals & Inorgaics			
Antimony	<1.0	1.4	<1.0
Lead	20.7	***131***	75.1
Mercury	<0.1	0.1	***0.4***
Sodium Adsorption Ratio	4.53	3.35	**8.61**
Conductivity @25°C	0.678	0.504	***1.58***
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene	0.09	N/A	N/A
2-and 1-methyl Naphthalene	0.1	N/A	N/A

Sample ID:	BH26-01 SA1	BH26-01 SA2
Laboratory Sample ID:	2616041-01	2616041-02
Date Sampled (m/dd/yyyy):	2026-04-07	2026-04-07
Sample Depth (mbgs):	0.33 - 0.61	0.61 - 1.52
Parameter		
Metals & Inorgaics		
Lead	5.4	52.4
Mercury	<0.1	***0.3***
Molybdenum	<1.0	2.1
Sodium Adsorption Ratio (2:1) (Calc.)	2.99	3.73
Electrical Conductivity (2:1)	0.415	0.637

Sample ID:	BH26-04 SA1	BH26-04 SA2	BH26-04 SA3
Laboratory Sample ID:	2616041-08	2616041-09	2616041-10
Date Sampled (m/dd/yyyy):	2026-04-10	2026-04-10	2026-04-10
Sample Depth (mbgs):	0.15 - 0.61	0.76 - 1.37	1.52 - 2.13
Parameter			
Metals & Inorgaics			
Sodium Adsorption Ratio	3.01	1.66	2.92

Parameter	Units	MDL	MECP Table 1 Agri Property Use[1]	MECP Table 2.1 RPI Property Use[2]	MECP Table 2.1 ICC Property Use[3]	MECP Table 3.1 ICC Property Use[4]	MECP Table 4.1 ICC Property Use[5]
Metals & Inorgaics - Bulk							
Antimony	µg/g	1	1	7.5	40	40	63
Barium	µg/g	1	210	390	670	670	7700
Lead	µg/g	1	45	120	120	120	1000
Mercury	µg/g	0.1	0.16	0.27	0.27	0.27	1.9
Molybdenum	µg/g	1	2	6.9	40	40	1200
Selenium	µg/g	1	1.2	2.4	5.5	5.5	1200
Sodium Adsorption Ratio (2:1) (Calc	N/A	-	1	5	12	12	12
Electrical Conductivity (2:1)	mS/cm	0.005	0.47	0.7	1.4	1.4	1.4
Polycyclic Aromatic Hydrocarbons							
Benzo(a)anthracene	µg/g	0.02	0.095	0.5	0.92	1	0.92
Benzo(a)pyrene	µg/g	0.02	0.05	0.31	0.31	0.7	0.31
Benzo(k)fluoranthene	µg/g	0.02	0.05	3.1	3.1	7	3.1
2-and 1-methyl Naphthalene	µg/g	0.02	0.05	0.59	0.59	8.7	0.59
Pyrene	µg/g	0.02	0.19	28	28	70	28

LEGEND

BH # — BOREHOLE ID

XX.XX — GROUND SURFACE ELEVATION, IN METRES GEODETIC DATUM

BOREHOLE LOCATION (current investigation by GEMTEC)

APPROXIMATE SITE BOUNDARY

Notes:

1 - MECP Table 1 Agri Property Use: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agricultural or Other Property Use (Agri/Ot).

2 - MECP Table 2.1 RPI Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Potable Ground Water Condition for RPI Property Use.

3 - MECP Table 2.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Potable Ground Water Condition for ICC Property Use.

4 - MECP Table 3.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Non-Potable Ground Water Condition for ICC Property Use.

5 - MECP Table 4.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.

Shaded	- Exceeds MECP Table 1 Agri SCS or Leachate
Bold	- Exceeds MECP Table 2.1 RPI ESQS or Leachate
Italics	- Exceeds MECP Table 2.1 ICC ESQS or Leachate
RED	- Exceeds MECP Table 3.1 ICC ESQS or Leachate
Underlined	- Exceeds MECP Table 4.1 ICC - Subsurface ESQS or Leachate

DATA SOURCES AND REFERENCES

1. Coordinate system: CSRS.UTM-18N
2. Distances, elevations, and coordinates are shown in metres unless denoted otherwise
3. This drawing is a schematic representation and should not be taken as a substitute for a legal survey.
4. Image @2026 Google Maps, CNES / Airbus, First Base Solutions, Maxar Technologies
5. Contains information licensed under the Open Government Licence – Ontario
6. Geographic dataset source: Ontario GeoHub

SCALE 1:2,500

0 50 100 150m

DRAWING: SOIL EXCEEDANCES (M&I, PAHs)

CLIENT: TOWNSHIP OF BONNECHERE VALLEY

PROJECT: SOIL CHARACTERIZATION REPORT INFRASTRUCTURE UPGRADES PROJECT EGANVILLE, ONTARIO

DRAWN BY: SL	CHECKED BY: JG/DE/MK
PROJECT NO.: 101260.004	REVISION NO.: 0
DATE: JUNE 2026	FIGURE NO.: **FIGURE A.4**

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON, K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca

N:\PROJECTS\101200\101260.004\06_CIVIL DRAFTING\SCR R0\101260.004_SCR_R0_2026_05.DWG

Sample ID:	BH26-01 SA2
Laboratory Sample ID:	2616041-02
Date Sampled (m/dd/yyyy):	2026-04-07
Sample Depth (mbgs):	0.61 - 1.52
Parameter	
Volatiles	
Ethylbenzene	0.08
Hexane	0.22
Toluene	0.21
Xylenes, total	1.05
Petroleum Hydrocarbons - Soil	
F1 (C6 to C10	***45***
F2 (C10 to C16	***712***
F3 (C16 to C34)	***1270***
F4 (C34 to C50)	228
F4G (>C34)	1180

Sample ID:	BH26-02 SA1A
Laboratory Sample ID:	2616041-03
Date Sampled (m/dd/yyyy):	2026-04-10
Sample Depth (mbgs):	0.10 - 0.41
Parameter	
F3 (C16 to C34)	***361***
F4 (C34 to C50)	1580
F4G (>C34)	2450

Sample ID:	BH26-03 SA1A	BH26-03 SA1B
Laboratory Sample ID:	2616041-05	2616041-06
Date Sampled (m/dd/yyyy):	2026-04-10	2026-04-10
Sample Depth (mbgs):	0.18 - 0.38	0.38 - 0.64
Parameter		
Volatiles		
Hexane	<0.05	0.07
Tetrachloroethylene	<0.05	0.09
Toluene	<0.05	0.22
Xylenes, total	<0.05	0.53
Petroleum Hydrocarbons - Soil		
F2 (C10 to C16	<4	**12**
F4 (C34 to C50)	208	80
F4G (>C34)	281	N/A

Sample ID:	BH26-04 SA1	BH26-04 SA3
Laboratory Sample ID:	2616041-08	2616041-10
Date Sampled (m/dd/yyyy):	2026-04-10	2026-04-10
Sample Depth (mbgs):	0.15 - 0.61	1.52 - 2.13
Parameter		
Volatiles		
Tetrachloroethylene	<0.05	0.44
Petroleum Hydrocarbons - Soil		
F4 (C34 to C50)	251	251
F4G (>C34)	403	403

Sample ID:	BH26-05 SA1
Laboratory Sample ID:	2616096-01
Date Sampled (m/dd/yyyy):	2026-04-13
Sample Depth (mbgs):	0.10 - 0.56
Parameter	
Petroleum Hydrocarbons - Soil	
F4 (C34 to C50)	456
F4G (>C34)	559

Sample ID:	BH26-06 SA1	BH26-06 SA101
Laboratory Sample ID:	2616096-03	2616096-04
Date Sampled (m/dd/yyyy):	2026-04-13	2026-04-13
Sample Depth (mbgs):	0.15 - 0.61	0.15 - 0.61
Parameter		
Petroleum Hydrocarbons - Soil		
F2 (C10 to C16	<80	***97***
F3 (C16 to C34)	***271***	***353***
F4 (C34 to C50)	1460	2180
F4G (>C34)	1720	**2920**

Sample ID:	BH26-07 SA1
Laboratory Sample ID:	2616041-13
Date Sampled (m/dd/yyyy):	2026-04-08
Sample Depth (mbgs):	0.13 - 0.61
Parameter	
Petroleum Hydrocarbons - Soil	
F4 (C34 to C50)	176
F4G (>C34)	373

Sample ID:	BH26-09 SA2
Laboratory Sample ID:	2616041-16
Date Sampled (m/dd/yyyy):	2026-04-08
Sample Depth (mbgs):	0.76 - 1.37
Parameter	
Petroleum Hydrocarbons - Soil	
F4 (C34 to C50)	221
F4G (>C34)	417

Sample ID:	BH26-11 SA2	BH26-11 SA102	BH26-11 SA4
Laboratory Sample ID:	2616041-22	2616041-23	2616041-24
Date Sampled (m/dd/yyyy):	2026-04-09	2026-04-09	2026-04-09
Sample Depth (mbgs):	0.76 - 1.37	0.76 - 1.37	2.29 - 2.54
Parameter			
Petroleum Hydrocarbons - Soil			
F4 (C34 to C50)	173	130	128
F4G (>C34)	386	209	251

Sample ID:	BH26-10 SA1
Laboratory Sample ID:	2616041-19
Date Sampled (m/dd/yyyy):	2026-04-09
Sample Depth (mbgs):	0.10 - 0.61
Parameter	
Petroleum Hydrocarbons - Soil	
F4 (C34 to C50)	948
F4G (>C34)	1500

Parameter	Units	MDL	MECP Table 1 Agri Property Use[1]	MECP Table 2.1 RPI Property Use[2]	MECP Table 2.1 ICC Property Use[3]	MECP Table 3.1 ICC Property Use[4]	MECP Table 4.1 ICC Property Use[5]
Volatiles							
Ethylbenzene	µg/g	0.05	0.05	1.1	1.1	19	1.1
Hexane	µg/g	0.05	0.05	5.7	91	91	110
Tetrachloroethylene	µg/g	0.05	0.05	0.56	1.9	4.5	1.9
Toluene	µg/g	0.05	0.2	2.3	6.4	100	6.4
Xylenes, total	µg/g	0.05	0.05	6.3	26	53	26
Petroleum Hydrocarbons - Soil							
F1 (C6 to C10)	µg/g	7	17	25	25	25	25
F2 (C10 to C16)	µg/g	4	10	10	26	26	26
F3 (C16 to C34)	µg/g	8	240	240	240	1700	240
F4 (C34 to C50)	µg/g	6	120	2800	3300	3300	6900
F4G (>C34)	µg/g	50	120	2800	3300	3300	6900

LEGEND

BH # — BOREHOLE ID

XX.XX — GROUND SURFACE ELEVATION, IN METRES GEODETIC DATUM

BOREHOLE LOCATION (current investigation by GEMTEC)

APPROXIMATE SITE BOUNDARY

Notes:

1 - MECP Table 1 Agri Property Use: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agricultural or Other Property Use (Agri/Ot).

2 - MECP Table 2.1 RPI Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Potable Ground Water Condition for RPI Property Use.

3 - MECP Table 2.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Potable Ground Water Condition for ICC Property Use.

4 - MECP Table 3.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Non-Potable Ground Water Condition for ICC Property Use.

5 - MECP Table 4.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.

Shaded	- Exceeds MECP Table 1 Agri SCS or Leachate
Bold	- Exceeds MECP Table 2.1 RPI ESQS or Leachate
Italics	- Exceeds MECP Table 2.1 ICC ESQS or Leachate
RED	- Exceeds MECP Table 3.1 ICC ESQS or Leachate
Underlined	- Exceeds MECP Table 4.1 ICC - Subsurface ESQS or Leachate

DATA SOURCES AND REFERENCES

1. Coordinate system: CSRS.UTM-18N
2. Distances, elevations, and coordinates are shown in metres unless denoted otherwise
3. This drawing is a schematic representation and should not be taken as a substitute for a legal survey.
4. Image @2026 Google Maps, CNES / Airbus, First Base Solutions, Maxar Technologies
5. Contains information licensed under the Open Government Licence – Ontario
6. Geographic dataset source: Ontario GeoHub

SCALE 1:2,500

0 50 100 150m

DRAWING: SOIL EXCEEDANCES (VOC/PHC)

CLIENT: TOWNSHIP OF BONNECHERE VALLEY

PROJECT: SOIL CHARACTERIZATION REPORT INFRASTRUCTURE UPGRADES PROJECT EGANVILLE, ONTARIO

DRAWN BY: SL	CHECKED BY: JG/DE/MK
PROJECT NO.: 101260.004	REVISION NO.: 0
DATE: JUNE 2026	FIGURE NO.: **FIGURE A.5**

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON, K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca

N:\PROJECTS\101200\101260.004\06_CIVIL DRAFTING\SCR R0\101260.004_SCR_R0_2026_05.DWG

Sample ID:	BH26-01 SA2
Laboratory Sample ID:	2616041-02
Date Sampled (m/dd/yyyy):	2026-04-07
Sample Depth (mbgs):	0.61 - 1.52
Parameter	
Metals & Inorganics	
Lead	15

Sample ID:	BH26-04 SA3
Laboratory Sample ID:	2616041-10
Date Sampled (m/dd/yyyy):	2026-04-10
Sample Depth (mbgs):	1.52 - 2.13
Parameter	
VOCs	
Tetrachloroethylene	0.6

Sample ID:	BH26-03 SA1B	BH26-03 SA2
Laboratory Sample ID:	2616041-06	2617118-03
Date Sampled (m/dd/yyyy):	2026-04-10	2026-04-10
Sample Depth (mbgs):	0.38 - 0.64	0.76 - 1.37
Parameter		
VOCs		
Tetrachloroethylene	<0.5	0.6

Sample ID:	BH26-07 SA2	BH26-07 SA4
Laboratory Sample ID:	2617118-05	2617118-06
Date Sampled (m/dd/yyyy):	2026-04-10	2026-04-10
Sample Depth (mbgs):	0.76 - 1.37	2.29 - 2.90
Parameter		
Metals & Inorganics		
Lead	21.3	6.5

Parameter	Units	MDL	MECP Table 1 Ag LSL	MECP Table 2.1 RPI LSL	MECP Table 2.1 ICC LSL	MECP Table 3.1 ICC LSL	MECP Table 4.1 ICC LSL
Metals & Inorganics							
Lead	µg/L	0.2	NS	NS	NS	NS	4
VOCs							
Tetrachloroethylene	µg/L	0.5	0.5	0.5	0.5	0.5	0.5

LEGEND

BH # — BOREHOLE ID

XX.XX — GROUND SURFACE ELEVATION, IN METRES GEODETIC DATUM

BOREHOLE LOCATION (current investigation by GEMTEC)

APPROXIMATE SITE BOUNDARY

Notes:

1 - MECP Table 1 Agri Property Use: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agricultural or Other Property Use (Agri/Ot).

2 - MECP Table 2.1 RPI Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Potable Ground Water Condition for RPI Property Use.

3 - MECP Table 2.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Potable Ground Water Condition for ICC Property Use.

4 - MECP Table 3.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Full Depth ESQS in a Non-Potable Ground Water Condition for ICC Property Use.

5 - MECP Table 4.1 ICC Property Use: Ontario Ministry of the Environment, Conservation and Parks, "Rules for Soil Management and Excess Soil Quality Standards", December 2022. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.

Shaded	- Exceeds MECP Table 1 Agri SCS or Leachate
Bold	- Exceeds MECP Table 2.1 RPI ESQS or Leachate
Italics	- Exceeds MECP Table 2.1 ICC ESQS or Leachate
RED	- Exceeds MECP Table 3.1 ICC ESQS or Leachate
Underlined	- Exceeds MECP Table 4.1 ICC - Subsurface ESQS or Leachate

DATA SOURCES AND REFERENCES

1. Coordinate system: CSRS.UTM-18N
2. Distances, elevations, and coordinates are shown in metres unless denoted otherwise
3. This drawing is a schematic representation and should not be taken as a substitute for a legal survey.
4. Image @2026 Google Maps, CNES / Airbus, First Base Solutions, Maxar Technologies
5. Contains information licensed under the Open Government Licence – Ontario
6. Geographic dataset source: Ontario GeoHub

SCALE 1:2,500

0 50 100 150m

DRAWING: SOIL EXCEEDANCES (LEACHATE)

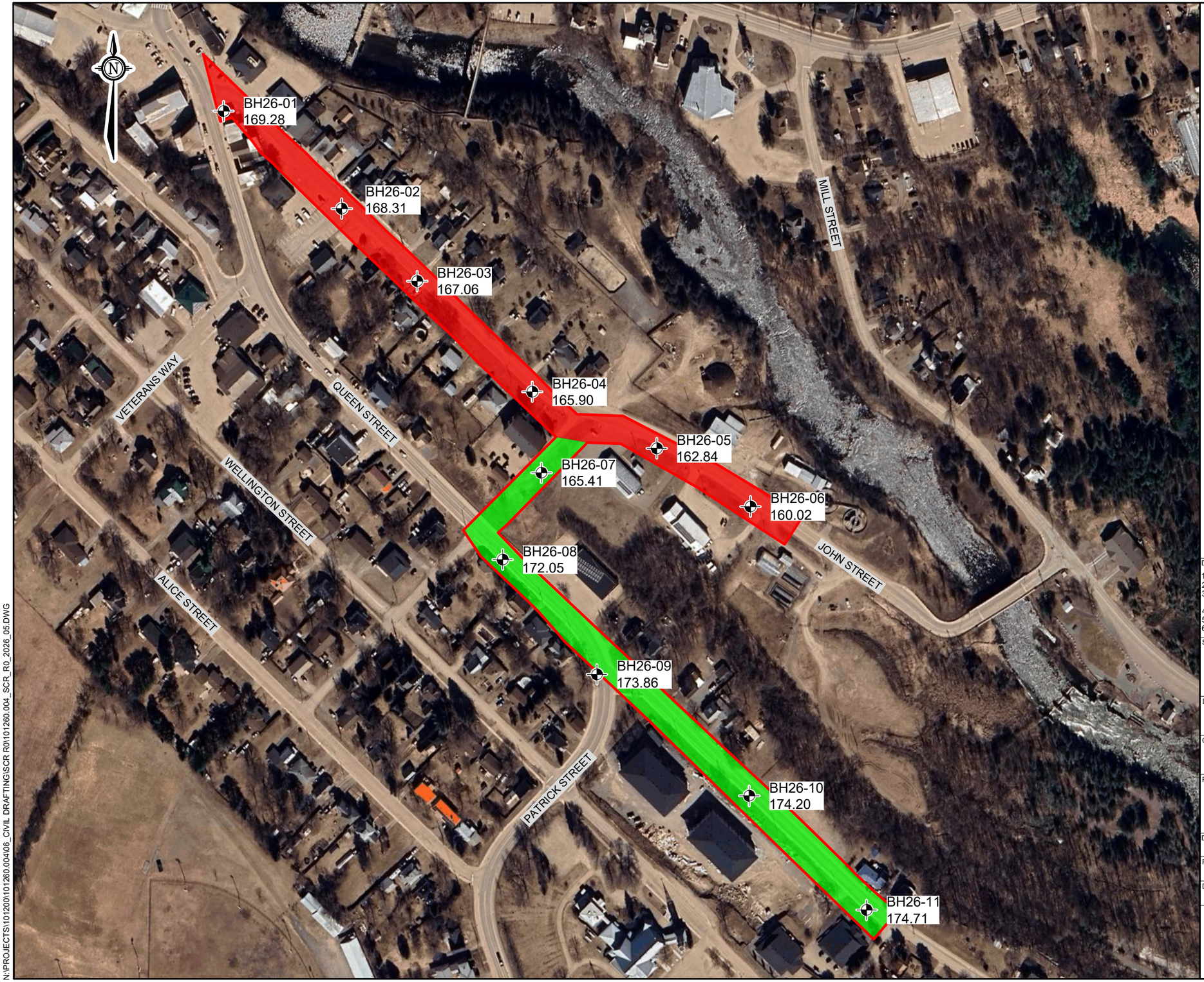
CLIENT: TOWNSHIP OF BONNECHERE VALLEY

PROJECT: SOIL CHARACTERIZATION REPORT INFRASTRUCTURE UPGRADES PROJECT EGANVILLE, ONTARIO

DRAWN BY: SL	CHECKED BY: JG/DE/MK
PROJECT NO.: 101260.004	REVISION NO.: 0
DATE: JUNE 2026	FIGURE NO.: **FIGURE A.6**

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON, K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca

N:\PROJECTS\101200\101260.004\06_CIVIL DRAFTING\SCR R0\101260.004_SCR_R0_2026_05.DWG



LEGEND

- **BH #** — BOREHOLE ID
- **XX.XX** — GROUND SURFACE ELEVATION, IN METRES GEODETIC DATUM
- BOREHOLE LOCATION (current investigation by GEMTEC)
- APU PROPERTY BOUNDARY
- MEETS TABLE 1 SCS AND/OR TABLE 2.1 ESQS
- REQUIRES LANDFILL DISPOSAL

DATA SOURCES AND REFERENCES

1. Coordinate system: CSRS.UTM-18N
2. Distances, elevations, and coordinates are shown in metres unless denoted otherwise
3. This drawing is a schematic representation and should not be taken as a substitute for a legal survey.
4. Image @2026 Google Maps, CNES / Airbus, First Base Solutions, Maxar Technologies
5. Contains information licensed under the Open Government Licence – Ontario
6. Geographic dataset source: Ontario GeoHub

SCALE 1:2,500

0 50 100 150m

DRAWING

EXCESS SOIL DISPOSAL OPTIONS

CLIENT

TOWNSHIP OF BONNECHERE VALLEY

PROJECT

SOIL CHARACTERIZATION REPORT
INFRASTRUCTURE UPGRADES PROJECT
EGANVILLE, ONTARIO

DRAWN BY	CHECKED BY
SL	JG/DE/MK
PROJECT NO. 101260.004	REVISION NO. 0
DATE JUNE 2026	FIGURE NO. **FIGURE A.7**

GEMTEC
Consulting Engineers and Scientists
32 Steacie Drive
Ottawa, ON, K2K 2A9
Tel: (613) 836-1422
www.gemtec.ca
ottawa@gemtec.ca

N:\PROJECTS\101200\101260.004\06_CIVIL DRAFTING\SCR R0\101260.004_SCR_R0_2026_05.DWG

APPENDIX B

Borehole Logs

RECORD OF BOREHOLE 26-01

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 7 2026

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		169.30									
0	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALTIC CONCRETE											
		Fill - (SP) SAND, some gravel, some silt, brown, non-cohesive, moist, compact		0.13	1	SS	390	23	M&I, PHCs, VOCs, PAHs, PCBs	HEX: 210 IBL: 2			
1		(ML) SILT, some sand, trace gravel, dark brown, non-cohesive, moist, compact		168.54 0.76	2	SS	180	29	M&I, PHCs, VOCs	HEX: 175 IBL: 16			Backfilled with soil cuttings
					3	SS	60	50+ for 6"		HEX: 25 IBL: 1			
	Air Rotary HQ Core	Limestone and dolostone BEDROCK		167.47 1.83	4	RC	310	TCR = 93% SCR = 80% RQD = 67%					
2					5	RC	810						
		End of borehole		166.36 2.94				TCR = 88% SCR = 46% RQD = 47%					

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-02

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 10 2026

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
0		Ground Surface		168.30									
	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALTIC CONCRETE		0.10									
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist		167.89	1	SS	430	24	M&I, PHCs, VOCs, PAHs, PCBs	HEX: 0 IBL: 0			
		FILL - (SP) SAND, some gravel, some silt; black, non-cohesive, moist		0.41 167.54									
1		(SP) SAND, trace silt; brown, non-cohesive, moist		0.76 167.18	2	SS	310	11	M&I, PHCs, VOCs	HEX: 0 IBL: 0			
		(SP) SAND, some gravel, some silt, trace clay; brown (TILL); non-cohesive, wet, loose to compact		1.12									
2					3	SS	180	8		HEX: 0 IBL: 0			
					4	SS	280	12		HEX: 0 IBL: 0			
3				165.35									
	Air Rotary HQ Core	BEDROCK, highly fractured limestone and dolostone		2.95	5	RC	1219	TCR = 86% SCR = 7% RQD = 0%					
4				163.93									
		End of Borehole		4.37									

Bentonite

Bentonite

GROUNDWATER OBSERVATIONS

DATE	DEPTH (m)	ELEVATION (m)
May. 06/26	1.08 ▽	167.12

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G

CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-03

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 10 2026

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
0		Ground Surface		167.10									
	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALTIC CONCTRETE		166.92									
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist, loose		0.18	1	SS	370	8	M&I, PHCs, VOCs, PAHs, PCBs	HEX: 5 IBL: 0			
				166.34									
1		(SP) SAND, some gravel, some silt, trace clay; brown (TILL); non-cohesive, moist, compact		0.76	2	SS	380	14	M&I, PHCs, VOCs	HEX: 50 IBL: 0			
					3	SS	70	50+ for 4"		HEX: 5 IBL: 0			Backfilled with soil cuttings
2	Air Rotary HQ Core	BEDROCK, limestone and dolostone		165.17 1.93									
3					4	RC	1270	TCR = 89% SCR = 39% RQD = 20%					
				163.75									
		End of Borehole		3.35									

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-04

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 10 2026

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		165.90									
0	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALTIC CONCRETE											
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist		0.15	1	SS	350	30	M&I, PHCs, VOCs, PAHs, PCBs	HEX: 0 IBL: 1			
				165.14									
1		(SP) SAND, some gravel, some silt; brown, non-cohesive, moist, loose to compact		0.76	2	SS	420	4	M&I, PHCs, VOCs	HEX: 0 IBL: 0			
													Bentonite
2					3	SS	380	28	M&I, PHCs, VOCs	HEX: 0 IBL: 1			
				163.77									
	Air Rotary HQ Core	BEDROCK, limestone and dolostone		2.13	4	RC	1016	TCR = 62% SCR = 12% RQD = 6%					
3													
4					5	RC	508	TCR = 80% SCR = 44% RQD = 24%					
				161.48									
		End of Borehole		4.42									

GROUNDWATER OBSERVATIONS

DATE	DEPTH (m)	ELEVATION (m)
May. 06/26	2.75 ▽	163.04

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-05

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 13 2026

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
0		Ground Surface		162.80									
	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALTIC CONCRETE		0.10									
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist, very dense			1	SS	440	51	M&I, PHCs, VOCs, PAHs, PCBs	HEX: 5 IBL: 0			
				161.89									
1		(SP) SAND, some gravel, some silt, trace clay; brown (TILL); non-cohesive, moist, loose to compact		0.91	2	SS	410	15	M&I, PHCs, VOCs	HEX: 5 IBL: 0			
					3	SS	100	50+ for 4"		HEX: 5 IBL: 1			Backfilled with soil cuttings
				160.87									
2	Air Rotary HQ Core	BEDROCK, limestone and dolostone		1.93									
3					4	RC	1524	TCR = 94% SCR = 38% RQD = 20%					
				159.24									
		End of Borehole		3.56									

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-06

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 13 2026

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		160.00									
0	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALT CONCRETE											
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist, very dense		0.10	1	SS	410	67	M&I, PHCs, VOCs, PAHs, PCBs	HEX: 5 IBL: 1			
				159.24									
1		(SP) SAND, some gravel, some silt, trace clay; brown (TILL); non-cohesive, moist,very dense		0.76	2	SS	410	85	M&I, PHCs, VOCs	HEX: 50 IBL: 2			
				158.45									
2	Air Rotary HQ Core	BEDROCK, limestone and dolostone		1.55	3	RC	1575	TCR = 95% SCR = 49% RQD = 38%					
3				156.80									
		End of Borehole		3.20									

Bentonite

GROUNDWATER OBSERVATIONS

DATE	DEPTH (m)	ELEVATION (m)
May. 06/26	0.94 ▽	158.95

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-07

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 10 2026

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		165.40									
0	Power Auger 4 1/4" Hoolow Stem Auger	FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist, loose			1	SS	350	7		HEX: 0 IBL: 0			
1		(SP) SAND, some gravel, some silt; brown; non-cohesive, moist, compact		0.76 / 163.88	2	SS	480	11	M&I, PHCs, BTEX, PAHs	HEX: 15 IBL: 1			
2	Air Rotary HQ Core	(SP) SAND, some gravel, some silt, trace clay; brown (TILL); non-cohesive, moist, loose to compact		1.52	3	SS	400	5		HEX: 30 IBL: 1			
					4	SS	210	5	M&I, PHCs, BTEX	HEX: 90 IBL: 0			Backfilled with soil cuttings
3					5	SS	300	16		HEX: 320 IBL: 0			
		BEDROCK, limestone and dolostone		3.81 / 161.59									
4					6	RC	1448	TCR = 95% SCR = 65% RQD = 60%					
5		End of Borehole		5.33 / 160.07									

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-08

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 8 2026

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		172.00									
0	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALT CONCRETE											
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist, compact to very dense		0.13	1	SS	310	18	M&I, PHCs, BTEX, PAHs	HEX: 45 IBL: 1			
1					2	SS	220	57		HEX: 25 IBL: 1			Bentonite
				170.48									
		(SP) SAND, some gravel, some silt, trace clay; brown (TILL); non-cohesive, moist, loose to dense		1.52	3	SS	430	11	M&I, PHCs, BTEX	HEX: 10 IBL: 1			
2					4	SS	570	12		HEX: 0 IBL: 1			
3					5	SS	610	49	M&I, PHCs, BTEX	HEX: 50 IBL: 1			
4					6	SS	610	46		HEX: 35 IBL: 1			
5					7	SS	610	46		HEX: 45 IBL: 1			
				166.82									
		End of Borehole		5.18									

GROUNDWATER OBSERVATIONS

DATE	DEPTH (m)	ELEVATION (m)
May. 06/26	1.73 ▽	170.07

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-09

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 8 2026

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		173.90									
0	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALT CONCRETE											
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist, dense to very dense		0.10	1	SS	330	47		HEX: 5 IBL: 5			
1					2	SS	420	95	M&I, PHCs, BTEX, PAHs	HEX: 0 IBL: 4			
				172.38									
		(SP) SAND, some gravel, some silt, trace clay; brown (TILL); non-cohesive, moist, compact to very dense		1.52	3	SS	450	71		HEX: 0 IBL: 2			
2													
					4	SS	570	17	M&I, PHCs, BTEX	HEX: 75 IBL: 2			Backfilled with soil cuttings
3					5	SS	610	28		HEX: 70 IBL: 1			
4					6	SS	560	56		HEX: 30 IBL: 2			
					7	SS	610	74		HEX: 35 IBL: 1			
5				168.72									
		End of Borehole		5.18									

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

RECORD OF BOREHOLE 26-10

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 9 2026

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		174.20									
0	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALT CONCRETE		0.10									
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist, compact to dense			1	SS	330	38	M&I, PHCs, BTEX, PAHs	HEX: 40 IBL: 1			
1					2	SS	480	17		HEX: 20 IBL: 0			
				172.68									
		(SP) SAND, some gravel, some silt, trace clay; brown (TILL); non-cohesive, moist, compact to very dense		1.52	3	SS	520	14	M&I, PHCs, BTEX	HEX: 50 IBL: 2			
2					4	SS	240	77		HEX: 55 IBL: 1			
3					5	SS	440	77	M&I, PHCs, BTEX	HEX: 40 IBL: 1			Backfilled with soil cuttings
4					6	SS	610	53		HEX: 50 IBL: 1			
5					7	SS	540	50		HEX: 30 IBL: 2			
					8	SS	540	56		HEX: 50 IBL: 1			
				168.26									
		End of Borehole		5.94									

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

RECORD OF BOREHOLE 26-11

CLIENT: Township of Bonnechere Valley
PROJECT: Geotechnical, Hydrogeological, and Environmental Services, John Street and Queen Street Upgrades, Eganville, ON
JOB#: 101260.004
LOCATION: See Borehole Location Plan, Figure 1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Apr 9 2026

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		174.70									
0	Power Auger 4 1/4" Hoolow Stem Auger	ASPHALT CONCRETE		174.60									
		FILL - (SP) SAND, some gravel, some silt; brown, non-cohesive, moist, compact to very dense		0.10	1	SS	290	51		HEX: 25 IBL: 2			Bentonite
1					2	SS	510	24	M&I, PHCs, BTEX, PAHs	HEX: 20 IBL: 1			
				173.18									
		(SP) SAND, some gravel, some silt, trace clay; brown, with cobbles and boulders (TILL); non-cohesive, moist, compact to very dense		1.52	3	SS	250	26		HEX: 60 IBL: 2			
2					4	SS	220	50+ for 4"	M&I, PHCs, BTEX	HEX: 35 IBL: 1			Bentonite
3					5	SS	420	50+ for 2"	M&I, PHCs, BTEX	HEX: 50 IBL: 3			
4					6	SS	0	50					
5					7	SS	280	63		HEX: 60 IBL: 2			
					8	SS	380	90		HEX: 40 IBL: 2			
				168.76									
		End of Borehole		5.94									

GROUNDWATER OBSERVATIONS

DATE	DEPTH (m)	ELEVATION (m)
May. 06/26	5.64 ▽	168.96

GEMTEC
Consulting Engineers and Scientists

LOGGED: J.G
CHECKED: T.M

ENV - BOREHOLE LOG 101260.004_ENVIRO LOGS_2026-05-20.GPJ GEMTEC 2018.GDT 26/5/20

APPENDIX C

Soil Analytical Tables

GEMTEC
Consulting Engineers and Scientists

Table C.1: Summary of Soil Analytical Results
Metals, Inorganics, and Polycyclic Aromatic Hydrocarbons
Infrastructure Upgrades Project
John Street and Queen Street

Contaminants of Concern	MECP Table 1 Agri or Other Property Use	O.Reg. 406/19 MECP Table 2.1 RPI	O.Reg. 406/19 MECP Table 2.1 ICC	O.Reg. 406/19 MECP Table 3.1 ICC	O.Reg. 406/19 MECP Table 4.1 ICC - Subsurface Soil	Reporting Detection Limit	Sample ID Sample Depth (m bgs Lab ID Sampling Date Units	BH26-01 SA1 0.33 - 0.61 2616041-01 2026-04-07	BH26-01 SA2 0.61 - 1.52 2616041-02 2026-04-07	BH26-02 SA1A 0.10 - 0.41 2616041-03 2026-04-10	BH26-02 SA2A 0.76 - 1.12 2616041-04 2026-04-10	BH26-03 SA1A 0.18 - 0.38 2616041-05 2026-04-10	BH26-03 SA1B 0.38 - 0.64 2616041-06 2026-04-10	BH26-03 SA2 0.76 - 1.37 2616041-07 2026-04-10	BH26-04 SA1 0.15 - 0.61 2616041-08 2026-04-10	BH26-04 SA2 0.76 - 1.37 2616041-09 2026-04-10	BH26-04 SA3 1.52 - 2.13 2616041-10 2026-04-10
Metals and Inorganics - Soil																	
Antimony	1	7.5	40	40	63	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0
Arsenic	11	18	18	18	39	1	µg/g	1.7	2.2	1.7	1.5	2.1	9.2	4.1	1.4	<1.0	3.2
Barium	210	390	670	670	7700	1	µg/g	54.7	91.4	42.3	28.3	40.7	115	111	48.2	14.4	25.1
Beryllium	2.5	4	8	8	60	0.5	µg/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Boron, available	NS	1.5	2	2	NS	0.5	µg/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5
Boron	36	120	120	120	5000	5	µg/g	14.1	9	10.2	6.4	8.7	10.4	13.9	11.5	<5.0	7.4
Cadmium	1	1.2	1.9	1.9	7.9	0.5	µg/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (VI)	0.66	8	8	8	40	0.2	µg/g	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	67	160	160	160	11000	5	µg/g	15.4	19.7	15	12.8	11.6	13.8	15	14.4	5.4	9.6
Cobalt	19	22	80	80	2500	1	µg/g	5.9	5.4	4.6	5.2	4	7	5.3	5.5	2.4	5.5
Copper	62	140	230	230	1900	5	µg/g	16.1	14.5	11.4	12.4	11.5	33.6	13.7	13	6.7	16.4
Lead	45	120	120	120	1000	1	µg/g	5.4	52.4	5.9	5.2	20.7	***131***	75.1	4.2	1.7	8.5
Mercury	0.16	0.27	0.27	0.27	1.9	0.1	µg/g	<0.1	***0.3***	<0.1	<0.1	<0.1	0.1	***0.4***	<0.1	<0.1	<0.1
Molybdenum	2	6.9	40	40	1200	1	µg/g	<1.0	2.1	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	1.4
Nickel	37	100	270	270	510	5	µg/g	11.1	9.1	8.9	9	8	16	8.3	9.5	<5.0	8.8
Selenium	1.2	2.4	5.5	5.5	1200	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
Silver	0.5	20	40	40	490	0.3	µg/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	1	1	3.3	3.3	33	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	1.9	23	33	33	300	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	86	86	86	86	160	10	µg/g	24	26.3	26.6	24.2	18.5	19.2	17.7	23.8	11.3	<10.0
Zinc	290	340	340	340	15000	20	µg/g	25.1	41.8	24.7	20.9	27.4	108	43.4	26	<20.0	<20.0
Cyanide, WAD	0.051	0.051	0.051	0.051	fre	0.03	µg/g	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Sodium Adsorption Ratio (2:1) (Calc.)	1	5	12	12	12	0.01	N/A	2.99	3.73	***14.8***	**6.17**	4.53	3.35	**8.61**	3.01	1.66	2.92
Electrical Conductivity (2:1)	0.47	0.7	1.4	1.4	1.4	0.005	mS/cm	0.415	0.637	***1.58***	0.611	0.678	0.504	***1.58***	0.428	0.187	0.354
pH, 2:1 CaCl2 Extraction	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	0.05	pH Units	7.98	7.3	8.09	7.85	7.89	7.8	7.21	7.93	7.68	7.99
Polycyclic Aromatic Hydrocarbons - Soil																	
Acenaphthene	0.05	2.5	2.5	15	2.5	0.02	µg/g	<0.02	N/A	<0.20	N/A	<0.02	N/A	N/A	<0.02	N/A	N/A
Acenaphthylene	0.093	0.093	0.093	0.093	0.093	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.03	N/A	N/A	<0.02	N/A	N/A
Anthracene	0.05	0.16	0.16	0.16	0.16	0.02	µg/g	<0.02	N/A	<0.20	N/A	<0.02	N/A	N/A	<0.02	N/A	N/A
Benzo(a)anthracene	0.095	0.5	0.92	1	0.92	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.04	N/A	N/A	<0.02	N/A	N/A
Benzo(a)pyrene	0.05	0.31	0.31	0.7	0.31	0.02	µg/g	0.03	N/A	<0.20	N/A	0.09	N/A	N/A	<0.02	N/A	N/A
Benzo(b)fluoranthene	0.3	3.2	3.2	7	3.2	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.08	N/A	N/A	<0.02	N/A	N/A
Benzo(g,h,i)perylene	0.2	6.6	13	13	110	0.02	µg/g	0.02	N/A	<0.20	N/A	0.07	N/A	N/A	<0.02	N/A	N/A
Benzo(k)fluoranthene	0.05	3.1	3.1	7	3.1	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.04	N/A	N/A	<0.02	N/A	N/A
Chrysene	0.18	7	9.4	14	9.4	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.05	N/A	N/A	<0.02	N/A	N/A
Dibenz(a,h)anthracene	0.1	0.57	0.7	0.7	1	0.02	µg/g	<0.02	N/A	<0.20	N/A	<0.02	N/A	N/A	<0.02	N/A	N/A
Fluoranthene	0.24	0.69	2.8	70	2.8	0.02	µg/g	0.03	N/A	<0.20	N/A	0.05	N/A	N/A	<0.02	N/A	N/A
Fluorene	0.05	6.8	6.8	6.8	6.8	0.02	µg/g	<0.02	N/A	<0.20	N/A	<0.02	N/A	N/A	<0.02	N/A	N/A
Indeno(1,2,3-cd)pyrene	0.11	0.38	0.76	0.76	11	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.05	N/A	N/A	<0.02	N/A	N/A
1-Methylnaphthalene	0.05	0.59	0.59	8.7	0.59	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.05	N/A	N/A	<0.02	N/A	N/A
2-Methylnaphthalene	0.05	0.59	0.59	8.7	0.59	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.05	N/A	N/A	<0.02	N/A	N/A
2-and 1-methyl Naphthalene	0.05	0.59	0.59	8.7	0.59	0.04	µg/g	<0.04	N/A	<0.40	N/A	0.1	N/A	N/A	<0.04	N/A	N/A
Naphthalene	0.05	0.2	0.2	1.8	0.2	0.01	µg/g	<0.01	N/A	<0.10	N/A	0.04	N/A	N/A	<0.01	N/A	N/A
Phenanthrene	0.19	6.2	12	12	23	0.02	µg/g	<0.02	N/A	<0.20	N/A	0.04	N/A	N/A	<0.02	N/A	N/A
Pyrene	0.19	28	28	70	28	0.02	µg/g	0.03	N/A	<0.20	N/A	0.06	N/A	N/A	<0.02	N/A	N/A
PCBs																	
PCBs, total	0.3	0.35	1.1	1.1	2.7	0.05	µg/g	<0.05	N/A	<0.05	N/A	<0.05	N/A	N/A	<0.05	N/A	N/A

Notes:
MDL - Method Detection Limit or Reporting Limit
RPI - Residential/Parkland/Institutional
ICC - Industrial/Commercial/Community
'mbgs' - Metres Below Ground Surface
'NS' - No Standard
N/A' - Not Analyzed
ND' - Non-Detect Sample
MECP Table 1 SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. Table 1: Full Depth Background Site Condition Standards, Agriculture or Other Property Use with Coarse and Fine textured soils (MECP, 2011).
MECP Table 2.1 RPI ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, RPI Property Use.
MECP Table 2.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, ICC Property Use.
MECP Table 3.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition, ICC Property Use.
MECP Table 4.1 ESQS (O.Reg. 406/19): Rules for Soil Management and Excess Soil Quality Standards. Table 4.1: Stratified Excess Soil Quality Standards in a Potable Ground Water

Shaded	- Exceeds MECP Table 1 Agri SCS
Bold	- Exceeds MECP Table 2.1 RPI ESQS
Italics	- Exceeds MECP Table 2.1 ICC ESQS
RED	- Exceeds MECP Table 3.1 ICC ESQS
Underlined	- Exceeds MECP Table 4.1 ICC ESQS

GEMTEC
Consulting Engineers and Scientists

Table C.1: Summary of Soil Analytical Results
Metals, Inorganics, and Polycyclic Aromatic Hydrocarbons
Infrastructure Upgrades Project
John Street and Queen Street

Contaminants of Concern	MECP Table 1 Agri or Other Property Use	O.Reg. 406/19 MECP Table 2.1 RPI	O.Reg. 406/19 MECP Table 2.1 ICC	O.Reg. 406/19 MECP Table 3.1 ICC	O.Reg. 406/19 MECP Table 4.1 ICC - Subsurface Soil	Reporting Detection Limit	Sample ID Sample Depth (m bgs Lab ID Sampling Date Units	BH26-05 SA1 0.10 - 0.56 2616096-01 2026-04-13	BH26-05 SA2B 0.91 - 1.37 2616096-02 2026-04-13	BH26-06 SA1 0.15 - 0.61 2616096-03 2026-04-13	BH26-06 SA101 0.15 - 0.61 2616096-04 2026-04-13	BH26-06 SA2 0.76 - 1.37 2616096-05 2026-04-13	BH26-07 SA2 0.76 - 1.37 2616041-11 2026-04-11	BH26-07 SA4 2.29 - 2.90 2616041-12 2026-04-11	BH26-08 SA1 0.13 - 0.61 2616041-13 2026-04-08	BH26-08 SA3 1.52 - 2.13 2616041-14 2026-04-08	BH26-08 SA5 3.00 - 3.61 2616041-15 2026-04-08
Metals and Inorganics - Soil																	
Antimony	1	7.5	40	40	63	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	4.4	<1.0	<1.0	<1.0	<1.0
Arsenic	11	18	18	18	39	1	µg/g	1.6	5	1.8	1.8	2	2.1	2	2	1.1	<1.0
Barium	210	390	670	670	7700	1	µg/g	39.3	221	71.3	78.6	24.5	57.1	83.9	33.1	55.2	92.1
Beryllium	2.5	4	8	8	60	0.5	µg/g	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, available	NS	1.5	2	2	NS	0.5	µg/g	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5
Boron	36	120	120	120	5000	5	µg/g	7.5	11.2	7.4	7.6	6.1	7.8	10.7	12.3	8.8	5.5
Cadmium	1	1.2	1.9	1.9	7.9	0.5	µg/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (VI)	0.66	8	8	8	40	0.2	µg/g	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	67	160	160	160	11000	5	µg/g	11.7	10.5	11.1	11.2	5.6	13.6	20.7	14	14.9	18.8
Cobalt	19	22	80	80	2500	1	µg/g	4.5	8.6	4	3.8	2.2	4.7	6.6	5.4	5.2	6.2
Copper	62	140	230	230	1900	5	µg/g	11.2	17.5	11.7	11.9	7	14.8	15.5	14.2	10.4	11.3
Lead	45	120	120	120	1000	1	µg/g	8.6	19.9	27.8	34.9	6.4	53.9	24.7	4.8	3.2	2.3
Mercury	0.16	0.27	0.27	0.27	1.9	0.1	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Molybdenum	2	6.9	40	40	1200	1	µg/g	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	37	100	270	270	510	5	µg/g	7.9	13.3	7.9	7.7	5.2	8.8	11.2	9.7	9	10.4
Selenium	1.2	2.4	5.5	5.5	1200	1	µg/g	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	0.5	20	40	40	490	0.3	µg/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	1	1	3.3	3.3	33	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	1.9	23	33	33	300	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	86	86	86	86	160	10	µg/g	23.8	14.8	21.1	21.6	<10.0	21.4	31.6	23.4	26.6	31.5
Zinc	290	340	340	340	15000	20	µg/g	23.3	34.8	24	25.1	<20.0	45.3	43.4	25.9	<20.0	26
Cyanide, WAD	0.051	0.051	0.051	0.051	fre	0.03	µg/g	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Sodium Adsorption Ratio (2:1) (Calc.)	1	5	12	12	12	0.01	N/A	**10**	**6.38**	**9.4**	**7.26**	2.92	0.95	2.14	***33.3***	**7.8**	1.11
Electrical Conductivity (2:1)	0.47	0.7	1.4	1.4	1.4	0.005	mS/cm	**1.06**	**0.874**	**1.16**	**1.23**	0.677	0.211	0.383	***2.17***	**1.03**	0.187
pH, 2:1 CaCl2 Extraction	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	0.05	pH Units	8.05	7.04	7.76	7.82	7.6	7.6	7.12	8.09	7.84	7.78
Polycyclic Aromatic Hydrocarbons - Soil																	
Acenaphthene	0.05	2.5	2.5	15	2.5	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	<0.02	N/A	<0.02	N/A	N/A
Acenaphthylene	0.093	0.093	0.093	0.093	0.093	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.07	N/A	<0.02	N/A	N/A
Anthracene	0.05	0.16	0.16	0.16	0.16	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.04	N/A	<0.02	N/A	N/A
Benzo(a)anthracene	0.095	0.5	0.92	1	0.92	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.14	N/A	<0.02	N/A	N/A
Benzo(a)pyrene	0.05	0.31	0.31	0.7	0.31	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.21	N/A	<0.02	N/A	N/A
Benzo(b)fluoranthene	0.3	3.2	3.2	7	3.2	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.13	N/A	<0.02	N/A	N/A
Benzo(g,h,i)perylene	0.2	6.6	13	13	110	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.13	N/A	<0.02	N/A	N/A
Benzo(k)fluoranthene	0.05	3.1	3.1	7	3.1	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.07	N/A	<0.02	N/A	N/A
Chrysene	0.18	7	9.4	14	9.4	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.14	N/A	<0.02	N/A	N/A
Dibenz(a,h)anthracene	0.1	0.57	0.7	0.7	1	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.03	N/A	<0.02	N/A	N/A
Fluoranthene	0.24	0.69	2.8	70	2.8	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.23	N/A	<0.02	N/A	N/A
Fluorene	0.05	6.8	6.8	6.8	6.8	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	<0.02	N/A	<0.02	N/A	N/A
Indeno(1,2,3-cd)pyrene	0.11	0.38	0.76	0.76	11	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.1	N/A	<0.02	N/A	N/A
1-Methylnaphthalene	0.05	0.59	0.59	8.7	0.59	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	<0.02	N/A	<0.02	N/A	N/A
2-Methylnaphthalene	0.05	0.59	0.59	8.7	0.59	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	<0.02	N/A	<0.02	N/A	N/A
2-and 1-methyl Naphthalene	0.05	0.59	0.59	8.7	0.59	0.04	µg/g	<0.04	N/A	<0.04	N/A	N/A	<0.04	N/A	<0.04	N/A	N/A
Naphthalene	0.05	0.2	0.2	1.8	0.2	0.01	µg/g	<0.01	N/A	<0.01	N/A	N/A	<0.01	N/A	<0.01	N/A	N/A
Phenanthrene	0.19	6.2	12	12	23	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.09	N/A	<0.02	N/A	N/A
Pyrene	0.19	28	28	70	28	0.02	µg/g	<0.02	N/A	<0.02	N/A	N/A	0.21	N/A	<0.02	N/A	N/A
PCBs																	
PCBs, total	0.3	0.35	1.1	1.1	2.7	0.05	µg/g	<0.05	N/A	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
MDL - Method Detection Limit or Reporting Limit
RPI - Residential/Parkland/Institutional
ICC - Industrial/Commercial/Community
'mbgs' - Metres Below Ground Surface
'NS' - No Standard
N/A' - Not Analyzed
ND' - Non-Detect Sample

MECP Table 1 SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. Table 1: Full Depth Background Site Condition Standards, Agriculture or Other Property Use with Coarse and Fine textured soils (MECP, 2011).

MECP Table 2.1 RPI ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, RPI Property Use.

MECP Table 2.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, ICC Property Use.

MECP Table 3.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition, ICC Property Use.

MECP Table 4.1 ESQS (O.Reg. 406/19): Rules for Soil Management and Excess Soil Quality Standards. Table 4.1: Stratified Excess Soil Quality Standards in a Potable Ground Water

Shaded	- Exceeds MECP Table 1 Agri SCS
Bold	- Exceeds MECP Table 2.1 RPI ESQS
Italics	- Exceeds MECP Table 2.1 ICC ESQS
RED	- Exceeds MECP Table 3.1 ICC ESQS
Underlined	- Exceeds MECP Table 4.1 ICC ESQS

GEMTEC
Consulting Engineers and Scientists

Table C.1: Summary of Soil Analytical Results
Metals, Inorganics, and Polycyclic Aromatic Hydrocarbons
Infrastructure Upgrades Project
John Street and Queen Street

Contaminants of Concern	MECP Table 1 Agri or Other Property Use	O.Reg. 406/19 MECP Table 2.1 RPI	O.Reg. 406/19 MECP Table 2.1 ICC	O.Reg. 406/19 MECP Table 3.1 ICC	O.Reg. 406/19 MECP Table 4.1 ICC - Subsurface Soil	Reporting Detection Limit	Sample ID Sample Depth (m bgs Lab ID Sampling Date Units	BH26-09 SA2 0.76 - 1.37 2616041-16 2026-04-08	BH26-09 SA102 0.76 - 1.37 2616041-17 2026-04-08	BH26-09 SA4 2.29 - 2.90 2616041-18 2026-04-08	BH26-10 SA1 0.10 - 0.61 2616041-19 2026-04-09	BH26-10 SA3 1.52 - 2.13 2616041-20 2026-04-09	BH26-10 SA5 3.00 - 3.61 2616041-21 2026-04-09	BH26-11 SA2 0.76 - 1.37 2616041-22 2026-04-09	BH26-11 SA102 0.76 - 1.37 2616041-23 2026-04-09	BH26-11 SA4 2.29 - 2.54 2616041-24 2026-04-09	BH26-11 SA5 3.00 - 3.51 2616041-25 2026-04-09
Metals and Inorganics - Soil																	
Antimony	1	7.5	40	40	63	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11	18	18	18	39	1	µg/g	1.2	1.3	1.3	1.4	1.1	1.1	1.6	1.6	1.2	1
Barium	210	390	670	670	7700	1	µg/g	42.4	41.5	150	53.2	73.1	69.1	48.9	49.8	73.5	60.4
Beryllium	2.5	4	8	8	60	0.5	µg/g	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, available	NS	1.5	2	2	NS	0.5	µg/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	36	120	120	120	5000	5	µg/g	10.3	9.7	9.8	10.8	9.7	7.3	7	7.7	7.9	8.2
Cadmium	1	1.2	1.9	1.9	7.9	0.5	µg/g	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (VI)	0.66	8	8	8	40	0.2	µg/g	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2
Chromium	67	160	160	160	11000	5	µg/g	13	13.3	26.7	14.1	18.6	18	14.1	15.3	17.3	15.1
Cobalt	19	22	80	80	2500	1	µg/g	4.4	4.3	8.4	5.7	6.1	6.1	5.3	5.7	6.3	5.3
Copper	62	140	230	230	1900	5	µg/g	9.6	9.4	19.1	12	12.9	11.8	11.8	12.4	11.8	10.5
Lead	45	120	120	120	1000	1	µg/g	3.9	3.1	3.3	4.1	3.5	2.8	9.1	9.4	2.9	2.7
Mercury	0.16	0.27	0.27	0.27	1.9	0.1	µg/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	2	6.9	40	40	1200	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	37	100	270	270	510	5	µg/g	7.6	7.4	16.7	10.1	11.1	10.2	9.3	10.2	10.8	8.8
Selenium	1.2	2.4	5.5	5.5	1200	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	0.5	20	40	40	490	0.3	µg/g	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	1	1	3.3	3.3	33	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	1.9	23	33	33	300	1	µg/g	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	86	86	86	86	160	10	µg/g	20.9	21.5	39	26.1	29.9	29.5	25.6	27.6	28.9	26.7
Zinc	290	340	340	340	15000	20	µg/g	<20.0	<20.0	38.5	25.8	25.2	27	23.6	25.4	25.4	21.5
Cyanide, WAD	0.051	0.051	0.051	0.051	fre	0.03	µg/g	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Sodium Adsorption Ratio (2:1) (Calc.)	1	5	12	12	12	0.01	N/A	**6.65**	**5.82**	1.31	1.1	3.06	1.83	1.05	1.09	1	0.63
Electrical Conductivity (2:1)	0.47	0.7	1.4	1.4	1.4	0.005	mS/cm	**0.948**	**0.915**	0.204	0.192	0.411	0.373	0.159	0.162	0.16	0.135
pH, 2:1 CaCl2 Extraction	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	Surface Soil: 5-9 Subsurface Soil: 5-11	0.05	pH Units	7.98	8.04	7.76	7.99	7.71	7.81	7.84	7.68	7.74	7.75
Polycyclic Aromatic Hydrocarbons - Soil																	
Acenaphthene	0.05	2.5	2.5	15	2.5	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Acenaphthylene	0.093	0.093	0.093	0.093	0.093	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Anthracene	0.05	0.16	0.16	0.16	0.16	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Benzo(a)anthracene	0.095	0.5	0.92	1	0.92	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Benzo(a)pyrene	0.05	0.31	0.31	0.7	0.31	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Benzo(b)fluoranthene	0.3	3.2	3.2	7	3.2	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Benzo(g,h,i)perylene	0.2	6.6	13	13	110	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Benzo(k)fluoranthene	0.05	3.1	3.1	7	3.1	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Chrysene	0.18	7	9.4	14	9.4	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Dibenz(a,h)anthracene	0.1	0.57	0.7	0.7	1	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Fluoranthene	0.24	0.69	2.8	70	2.8	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Fluorene	0.05	6.8	6.8	6.8	6.8	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Indeno(1,2,3-cd)pyrene	0.11	0.38	0.76	0.76	11	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
1-Methylnaphthalene	0.05	0.59	0.59	8.7	0.59	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
2-Methylnaphthalene	0.05	0.59	0.59	8.7	0.59	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
2-and 1-methyl Naphthalene	0.05	0.59	0.59	8.7	0.59	0.04	µg/g	<0.04	<0.04	N/A	<0.04	N/A	N/A	<0.04	<0.04	N/A	N/A
Naphthalene	0.05	0.2	0.2	1.8	0.2	0.01	µg/g	<0.01	<0.01	N/A	<0.01	N/A	N/A	<0.01	<0.01	N/A	N/A
Phenanthrene	0.19	6.2	12	12	23	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
Pyrene	0.19	28	28	70	28	0.02	µg/g	<0.02	<0.02	N/A	<0.02	N/A	N/A	<0.02	<0.02	N/A	N/A
PCBs																	
PCBs, total	0.3	0.35	1.1	1.1	2.7	0.05	µg/g	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
MDL - Method Detection Limit or Reporting Limit
RPI - Residential/Parkland/Institutional
ICC - Industrial/Commercial/Community
'mbgs' - Metres Below Ground Surface
'NS' - No Standard
N/A' - Not Analyzed
ND' - Non-Detect Sample

MECP Table 1 SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. Table 1: Full Depth Background Site Condition Standards, Agriculture or Other Property Use with Coarse and Fine textured soils (MECP, 2011).

MECP Table 2.1 RPI ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, RPI Property Use.

MECP Table 2.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, ICC Property Use.

MECP Table 3.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition, ICC Property Use.

MECP Table 4.1 ESQS (O.Reg. 406/19): Rules for Soil Management and Excess Soil Quality Standards. Table 4.1: Stratified Excess Soil Quality Standards in a Potable Ground Water

Shaded	- Exceeds MECP Table 1 Agri SCS
Bold	- Exceeds MECP Table 2.1 RPI ESQS
Italics	- Exceeds MECP Table 2.1 ICC ESQS
RED	- Exceeds MECP Table 3.1 ICC ESQS
Underlined	- Exceeds MECP Table 4.1 ICC ESQS

GEMTEC
Consulting Engineers and Scientists

Table C.2: Summary of Soil Analytical Results
Volatile Organic Compounds, Petroleum Hydrocarbon Four Fractions, and Benzene, Toluene, Ethylbenzene and Xylene
Infrastructure Upgrades Project
Eganville, Ontario

Contaminants of Concern	MECP Table 1 Agri or Other Property Use	O.Reg. 406/19 MECP Table 2.1 RPI	O.Reg. 406/19 MECP Table 2.1 ICC	O.Reg. 406/19 MECP Table 3.1 ICC	O.Reg. 406/19 MECP Table 4.1 ICC - Subsurface Soil	Reporting Detection Limit	Sample ID / Sample Depth / Lab ID / Sampling Date	Units	BH26-01 SA1 0.33 - 0.61 2616041-01 2026-04-07	BH26-01 SA2 0.61 - 1.52 2616041-02 2026-04-07	BH26-02 SA1A 0.10 - 0.41 2616041-03 2026-04-10	BH26-02 SA2A 0.76 - 1.12 2616041-04 2026-04-10	BH26-03 SA1A 0.18 - 0.38 2616041-05 2026-04-10	BH26-03 SA1B 0.38 - 0.64 2616041-06 2026-04-10	BH26-03 SA2 0.76 - 1.37 2616041-07 2026-04-10	BH26-04 SA1 0.15 - 0.61 2616041-08 2026-04-10	BH26-04 SA2 0.76 - 1.37 2616041-09 2026-04-10	BH26-04 SA3 1.52 - 2.13 2616041-10 2026-04-10	BH26-05 SA1 0.10 - 0.56 2616096-01 2026-04-13	BH26-05 SA2B 0.91 - 1.37 2616096-02 2026-04-13	BH26-06 SA1 0.15 - 0.61 2616096-03 2026-04-13
Volatiles																							
Acetone	0.5	32	32	32	32	0.5	µg/g		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	0.02	0.42	0.63	0.63	1.8	0.02	µg/g		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromodichloromethane	0.05	3	3	35	3	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	0.05	0.53	1.2	1.2	4	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	0.05	0.1	0.1	0.1	0.1	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	0.05	0.066	0.36	0.36	0.43	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	0.05	3.7	4.8	4.8	4.8	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	0.05	0.1	0.95	0.95	1.7	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	0.05	3.3	3.3	26	3.3	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	0.05	32	32	32	32	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	0.05	1.2	1.2	14	1.2	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	0.05	9.6	19	19	48	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	0.05	0.17	0.4	0.41	0.4	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	0.05	0.94	0.94	34	0.94	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	0.05	0.1	0.1	0.1	0.11	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethylene	0.05	0.051	0.13	0.13	0.24	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethylene	0.05	1.9	1.9	55	1.9	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-1,2-Dichloroethylene	0.05	0.17	1.3	1.3	1.9	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloropropane	0.05	0.05	0.28	0.28	0.33	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,3-Dichloropropylene	NS	NS	NS	NS	NS	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-1,3-Dichloropropylene	NS	NS	NS	NS	NS	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene, total	0.05	0.1	0.12	0.35	0.12	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	0.05	1.1	1.1	19	1.1	0.05	µg/g		<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene dibromide (dibromoethane,	0.05	0.079	0.079	0.1	0.079	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexane	0.05	5.7	91	91	110	0.05	µg/g		<0.05	0.22	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Ethyl Ketone (2-Butanone	0.5	26	140	140	160	0.5	µg/g		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	0.5	1.7	31	61	64	0.5	µg/g		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl tert-butyl ether	0.05	1.5	1.6	23	1.6	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	0.05	0.2	3.1	3.1	3.9	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	0.05	0.7	34	69	47	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	0.05	0.12	0.17	0.17	0.3	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	0.05	0.1	0.1	0.1	0.1	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	0.05	0.56	1.9	4.5	1.9	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	0.44	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	0.2	2.3	6.4	100	6.4	0.05	µg/g		<0.05	0.21	<0.05	<0.05	<0.05	0.22	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	0.05	0.76	10	10	10	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	0.05	0.1	0.1	0.1	0.14	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethylene	0.05	0.061	0.55	0.91	0.55	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	0.05	8	8	8	8	0.05	µg/g		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	0.02	0.04	0.064	0.064	0.11	0.02	µg/g		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
m/p-Xylene	NS	NS	NS	NS	NS	0.05	µg/g		<0.05	0.8	<0.05	<0.05	<0.05	0.29	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	NS	NS	NS	NS	NS	0.05	µg/g		<0.05	0.25	<0.05	<0.05	<0.05	0.25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes, total	0.05	6.3	26	53	26	0.05	µg/g		<0.05	1.05	<0.05	<0.05	<0.05	0.53	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Petroleum Hydrocarbons - Soil																							
F1 (C6 to C10)	17	25	25	25	25	7	µg/g		<7	***45***	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
F2 (C10 to C16)	10	10	26	26	26	4	µg/g		7	***712***	<80	<4	<4	**12**	<4	<4	<4	<4	<40	<4	<80		
F3 (C16 to C34)	240	240	240	240	1700	240	8	µg/g		21	***1270***	***361***	42	88	147	12	88	21	27	84	16	***271***	
F4 (C34 to C50)	120	2800	3300	3300	6900	6	µg/g		16	228	1580	95	208	80	17	251	18	66	456	13	1460		
F4G (>C34)	120	2800	3300	3300	6900	50	µg/g		N/A	1180	2450	N/A	281	N/A	N/A	403	N/A	N/A	559	N/A	1720		
Benzene, Toluene, Ethylbenzene, Xylene (BTEX) - Soil																							
Benzene	0.02	0.02	0.02	0.034	0.02	0.02	µg/g		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	0.05	0.05	0.05	1.9	0.05	0.05	µg/g		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	0.2	0.2	0.2	7.8	0.2	0.05	µg/g		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
m & p-Xylene	NS	NS	NS	NS	NS	0.05	µg/g		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
o-Xylene	NS	NS	NS	NS	NS	0.05	µg/g		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes (Total)	0.05	0.091	0.091	3	0.091	0.05	µg/g		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
MDL - Method Detection Limit or Reporting Limit
RPI - Residential/Parkland/Institutional
ICC - Industrial/Commercial/Community
'mbgs' - Metres Below Ground Surface
'NS' - No Standard
'NA' - Not Analyzed
'<' - Non-Detect Sample
MECP Table 1 SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. Table 1: Full Depth Background Site Condition Standards, Agriculture or Other Property Use with Coarse and Fine textured soils (MECP, 2011).
MECP Table 2.1 RPI ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, RPI Property Use.
MECP Table 2.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, ICC Property Use.
MECP Table 3.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Non-
MECP Table 4.1 ESQS (O.Reg. 406/19): Rules for Soil Management and

Shaded	- Exceeds MECP Table 1 Agri SCS
Bold	- Exceeds MECP Table 2.1 RPI ESQS
Italics	- Exceeds MECP Table 2.1 ICC ESQS
RED	- Exceeds MECP Table 3.1 ICC ESQS
Underlined	- Exceeds MECP Table 4.1 ICC ESQS

GEMTEC
Consulting Engineers and Scientists

Table C.2: Summary of Soil Analytical Results
Volatile Organic Compounds, Petroleum Hydrocarbon Four Fractions, and Benzene, Toluene, Ethylbenzene and Xylene
Infrastructure Upgrades Project
Eganville, Ontario

Contaminants of Concern	MECP Table 1 Agri or Other Property Use	O.Reg. 406/19 MECP Table 2.1 RPI	O.Reg. 406/19 MECP Table 2.1 ICC	O.Reg. 406/19 MECP Table 3.1 ICC	O.Reg. 406/19 MECP Table 4.1 ICC - Subsurface Soil	Reporting Detection Limit	Sample ID Sample Depth Lab ID Sampling Date Units	BH26-06 SA101 0.15 - 0.61 2616096-04 2026-04-13	BH26-06 SA2 0.76 - 1.37 2616096-05 2026-04-13	BH26-07 SA2 0.76 - 1.37 2616041-11 2026-04-11	BH26-07 SA4 2.29 - 2.90 2616041-12 2026-04-11	BH26-08 SA1 0.13 - 0.61 2616041-13 2026-04-08	BH26-08 SA3 1.52 - 2.13 2616041-14 2026-04-08	BH26-08 SA5 3.00 - 3.61 2616041-15 2026-04-08	BH26-09 SA2 0.76 - 1.37 2616041-16 2026-04-08	BH26-09 SA102 0.76 - 1.37 2616041-17 2026-04-08	BH26-09 SA4 2.29 - 2.90 2616041-18 2026-04-08	BH26-10 SA1 0.10 - 0.61 2616041-19 2026-04-09	BH26-10 SA3 1.52 - 2.13 2616041-20 2026-04-09	BH26-10 SA5 3.00 - 3.61 2616041-21 2026-04-09
Volatiles																				
Acetone	0.5	32	32	32	32	0.5	µg/g	<0.50	<0.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	0.02	0.42	0.63	0.63	1.8	0.02	µg/g	<0.02	<0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromodichloromethane	0.05	3	3	35	3	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromoform	0.05	0.53	1.2	1.2	4	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromomethane	0.05	0.1	0.1	0.1	0.1	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	0.05	0.066	0.36	0.36	0.43	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0.05	3.7	4.8	4.8	4.8	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroform	0.05	0.1	0.95	0.95	1.7	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibromochloromethane	0.05	3.3	3.3	26	3.3	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dichlorodifluoromethane	0.05	32	32	32	32	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	0.05	1.2	1.2	14	1.2	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	0.05	9.6	19	19	48	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	0.05	0.17	0.4	0.41	0.4	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane	0.05	0.94	0.94	34	0.94	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane	0.05	0.1	0.1	0.1	0.11	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethylene	0.05	0.051	0.13	0.13	0.24	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethylene	0.05	1.9	1.9	55	1.9	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethylene	0.05	0.17	1.3	1.3	1.9	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane	0.05	0.05	0.28	0.28	0.33	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropylene	NS	NS	NS	NS	NS	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropylene	NS	NS	NS	NS	NS	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichloropropene, total	0.05	0.1	0.12	0.35	0.12	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	0.05	1.1	1.1	19	1.1	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylene dibromide (dibromoethane,	0.05	0.079	0.079	0.1	0.079	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexane	0.05	5.7	91	91	110	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl Ethyl Ketone (2-Butanone	0.5	26	140	140	160	0.5	µg/g	<0.50	<0.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl Isobutyl Ketone	0.5	1.7	31	61	64	0.5	µg/g	<0.50	<0.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl tert-butyl ether	0.05	1.5	1.6	23	1.6	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene Chloride	0.05	0.2	3.1	3.1	3.9	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Styrene	0.05	0.7	34	69	47	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1,2-Tetrachloroethane	0.05	0.12	0.17	0.17	0.3	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	0.05	0.1	0.1	0.1	0.1	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethylene	0.05	0.56	1.9	4.5	1.9	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	0.2	2.3	6.4	100	6.4	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	0.05	0.76	10	10	10	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	0.05	0.1	0.1	0.1	0.14	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethylene	0.05	0.061	0.55	0.91	0.55	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane	0.05	8	8	8	8	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.02	0.04	0.064	0.064	0.11	0.02	µg/g	<0.02	<0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
m/p-Xylene	NS	NS	NS	NS	NS	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
o-Xylene	NS	NS	NS	NS	NS	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes, total	0.05	6.3	26	53	26	0.05	µg/g	<0.05	<0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Petroleum Hydrocarbons - Soil																				
F1 (C6 to C10)	17	25	25	25	25	7	µg/g	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
F2 (C10 to C16)	10	10	26	26	26	4	µg/g	**97**	<4	<4	<4	<4	<4	<4	<4	<4	<4	<40	<4	<4
F3 (C16 to C34)	240	240	240	1700	240	8	µg/g	***353***	28	13	12	91	<8	<8	164	50	<8	211	9	16
F4 (C34 to C50)	120	2800	3300	3300	6900	6	µg/g	2180	40	8	12	176	<6	<6	221	100	<6	948	8	30
F4G (>C34)	120	2800	3300	3300	6900	50	µg/g	**2920**	N/A	N/A	N/A	373	N/A	N/A	417	N/A	N/A	1500	N/A	N/A
Benzene, Toluene, Ethylbenzene, Xylene (BTEX) - Soil																				
Benzene	0.02	0.02	0.02	0.034	0.02	0.02	µg/g	N/A	N/A	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	0.05	0.05	0.05	1.9	0.05	0.05	µg/g	N/A	N/A	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	0.2	0.2	0.2	7.8	0.2	0.05	µg/g	N/A	N/A	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	NS	NS	NS	NS	NS	0.05	µg/g	N/A	N/A	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	NS	NS	NS	NS	NS	0.05	µg/g	N/A	N/A	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	0.05	0.091	0.091	3	0.091	0.05	µg/g	N/A	N/A	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes:
MDL - Method Detection Limit or Reporting Limit
RPI - Residential/Parkland/Institutional
ICC - Industrial/Commercial/Community
'mbgs' - Metres Below Ground Surface
'NS' - No Standard
'NA' - Not Analyzed
<' - Non-Detect Sample
MECP Table 1 SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. Table 1: Full Depth Background Site Condition Standards, Agriculture or Other Property Use with Coarse and Fine textured soils (MECP, 2011).
MECP Table 2.1 RPI ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, RPI Property Use.
MECP Table 2.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, ICC Property Use.
MECP Table 3.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Non-
MECP Table 4.1 ESQS (O.Reg. 406/19): Rules for Soil Management and

Shaded	- Exceeds MECP Table 1 Agri SCS
Bold	- Exceeds MECP Table 2.1 RPI ESQS
Italics	- Exceeds MECP Table 2.1 ICC ESQS
RED	- Exceeds MECP Table 3.1 ICC ESQS
Underlined	- Exceeds MECP Table 4.1 ICC ESQS

GEMTEC
Consulting Engineers and Scientists

Table C.2: Summary of Soil Analytical Results
Volatile Organic Compounds, Petroleum Hydrocarbon Four Fractions, and Benzene, Toluene, Ethylbenzene and Xylene
Infrastructure Upgrades Project
Eganville, Ontario

Contaminants of Concern	MECP Table 1 Agri or Other Property Use	O.Reg. 406/19 MECP Table 2.1 RPI	O.Reg. 406/19 MECP Table 2.1 ICC	O.Reg. 406/19 MECP Table 3.1 ICC	O.Reg. 406/19 MECP Table 4.1 ICC - Subsurface Soil	Reporting Detection Limit	Sample ID Sample Depth Lab ID Sampling Date Units	BH26-11 SA2 0.76 - 1.37 2616041-22 2026-04-09	BH26-11 SA102 0.76 - 1.37 2616041-23 2026-04-09	BH26-11 SA4 2.29 - 2.54 2616041-24 2026-04-09	BH26-11 SA5 3.00 - 3.51 2616041-25 2026-04-09
Volatiles											
Acetone	0.5	32	32	32	32	0.5	µg/g	N/A	N/A	N/A	N/A
Benzene	0.02	0.42	0.63	0.63	1.8	0.02	µg/g	N/A	N/A	N/A	N/A
Bromodichloromethane	0.05	3	3	35	3	0.05	µg/g	N/A	N/A	N/A	N/A
Bromoform	0.05	0.53	1.2	1.2	4	0.05	µg/g	N/A	N/A	N/A	N/A
Bromomethane	0.05	0.1	0.1	0.1	0.1	0.05	µg/g	N/A	N/A	N/A	N/A
Carbon Tetrachloride	0.05	0.066	0.36	0.36	0.43	0.05	µg/g	N/A	N/A	N/A	N/A
Chlorobenzene	0.05	3.7	4.8	4.8	4.8	0.05	µg/g	N/A	N/A	N/A	N/A
Chloroform	0.05	0.1	0.95	0.95	1.7	0.05	µg/g	N/A	N/A	N/A	N/A
Dibromochloromethane	0.05	3.3	3.3	26	3.3	0.05	µg/g	N/A	N/A	N/A	N/A
Dichlorodifluoromethane	0.05	32	32	32	32	0.05	µg/g	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	0.05	1.2	1.2	14	1.2	0.05	µg/g	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	0.05	9.6	19	19	48	0.05	µg/g	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	0.05	0.17	0.4	0.41	0.4	0.05	µg/g	N/A	N/A	N/A	N/A
1,1-Dichloroethane	0.05	0.94	0.94	34	0.94	0.05	µg/g	N/A	N/A	N/A	N/A
1,2-Dichloroethane	0.05	0.1	0.1	0.1	0.11	0.05	µg/g	N/A	N/A	N/A	N/A
1,1-Dichloroethylene	0.05	0.051	0.13	0.13	0.24	0.05	µg/g	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethylene	0.05	1.9	1.9	55	1.9	0.05	µg/g	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethylene	0.05	0.17	1.3	1.3	1.9	0.05	µg/g	N/A	N/A	N/A	N/A
1,2-Dichloropropane	0.05	0.05	0.28	0.28	0.33	0.05	µg/g	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropylene	NS	NS	NS	NS	NS	0.05	µg/g	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropylene	NS	NS	NS	NS	NS	0.05	µg/g	N/A	N/A	N/A	N/A
1,3-Dichloropropene, total	0.05	0.1	0.12	0.35	0.12	0.05	µg/g	N/A	N/A	N/A	N/A
Ethylbenzene	0.05	1.1	1.1	19	1.1	0.05	µg/g	N/A	N/A	N/A	N/A
Ethylene dibromide (dibromoethane,	0.05	0.079	0.079	0.1	0.079	0.05	µg/g	N/A	N/A	N/A	N/A
Hexane	0.05	5.7	91	91	110	0.05	µg/g	N/A	N/A	N/A	N/A
Methyl Ethyl Ketone (2-Butanone	0.5	26	140	140	160	0.5	µg/g	N/A	N/A	N/A	N/A
Methyl Isobutyl Ketone	0.5	1.7	31	61	64	0.5	µg/g	N/A	N/A	N/A	N/A
Methyl tert-butyl ether	0.05	1.5	1.6	23	1.6	0.05	µg/g	N/A	N/A	N/A	N/A
Methylene Chloride	0.05	0.2	3.1	3.1	3.9	0.05	µg/g	N/A	N/A	N/A	N/A
Styrene	0.05	0.7	34	69	47	0.05	µg/g	N/A	N/A	N/A	N/A
1,1,1,2-Tetrachloroethane	0.05	0.12	0.17	0.17	0.3	0.05	µg/g	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	0.05	0.1	0.1	0.1	0.1	0.05	µg/g	N/A	N/A	N/A	N/A
Tetrachloroethylene	0.05	0.56	1.9	4.5	1.9	0.05	µg/g	N/A	N/A	N/A	N/A
Toluene	0.2	2.3	6.4	100	6.4	0.05	µg/g	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	0.05	0.76	10	10	10	0.05	µg/g	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	0.05	0.1	0.1	0.1	0.14	0.05	µg/g	N/A	N/A	N/A	N/A
Trichloroethylene	0.05	0.061	0.55	0.91	0.55	0.05	µg/g	N/A	N/A	N/A	N/A
Trichlorofluoromethane	0.05	8	8	8	8	0.05	µg/g	N/A	N/A	N/A	N/A
Vinyl Chloride	0.02	0.04	0.064	0.064	0.11	0.02	µg/g	N/A	N/A	N/A	N/A
m/p-Xylene	NS	NS	NS	NS	NS	0.05	µg/g	N/A	N/A	N/A	N/A
o-Xylene	NS	NS	NS	NS	NS	0.05	µg/g	N/A	N/A	N/A	N/A
Xylenes, total	0.05	6.3	26	53	26	0.05	µg/g	N/A	N/A	N/A	N/A
Petroleum Hydrocarbons - Soil											
F1 (C6 to C10)	17	25	25	25	25	7	µg/g	<7	<7	<7	<7
F2 (C10 to C16)	10	10	26	26	26	4	µg/g	<4	<4	<4	<4
F3 (C16 to C34)	240	240	240	1700	240	8	µg/g	109	66	32	16
F4 (C34 to C50)	120	2800	3300	3300	6900	6	µg/g	173	130	128	38
F4G (>C34)	120	2800	3300	3300	6900	50	µg/g	386	209	251	N/A
Benzene, Toluene, Ethylbenzene, Xylene (BTEX) - Soil											
Benzene	0.02	0.02	0.02	0.034	0.02	0.02	µg/g	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	0.05	0.05	0.05	1.9	0.05	0.05	µg/g	<0.05	<0.05	<0.05	<0.05
Toluene	0.2	0.2	0.2	7.8	0.2	0.05	µg/g	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	NS	NS	NS	NS	NS	0.05	µg/g	<0.05	<0.05	<0.05	<0.05
o-Xylene	NS	NS	NS	NS	NS	0.05	µg/g	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	0.05	0.091	0.091	3	0.091	0.05	µg/g	<0.05	<0.05	<0.05	<0.05

Notes:
MDL - Method Detection Limit or Reporting Limit
RPI - Residential/Parkland/Institutional
ICC - Industrial/Commercial/Community
'mbgs' - Metres Below Ground Surface
'NS' - No Standard
'NA' - Not Analyzed
'<' - Non-Detect Sample
MECP Table 1 SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. Table 1: Full Depth Background Site Condition Standards, Agriculture or Other Property Use with Coarse and Fine textured soils (MECP, 2011).
MECP Table 2.1 RPI ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, RPI Property Use.
MECP Table 2.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition, ICC Property Use.
MECP Table 3.1 ICC ESQS: Full Depth Excess Soil Quality Standards in a Non-
MECP Table 4.1 ESQS (O.Reg. 406/19): Rules for Soil Management and

Shaded	- Exceeds MECP Table 1 Agri SCS
Bold	- Exceeds MECP Table 2.1 RPI ESQS
Italics	- Exceeds MECP Table 2.1 ICC ESQS
RED	- Exceeds MECP Table 3.1 ICC ESQS
Underlined	- Exceeds MECP Table 4.1 ICC ESQS

GEMTEC
Consulting Engineers and Scientists

Table C.3: Summary of Soil Analytical Results
SPLP Metals
Infrastucture Upgrades Project
Eganville, Ontario

Contaminants of Concern	MECP Table 1 Ag LSL	MECP Table 2.1 RPI LSL	MECP Table 2.1 ICC LSL	MECP Table 3.1 ICC LSL	MECP Table 4.1 ICC LSL	Reporting Limit or Method Detection Limit	Sample ID Sample Depth Lab ID Sampling Date Units	BH26-01 SA2 0.61 - 1.52 2617118-01 2026-04-07	BH26-03 SA1B 0.38 - 0.64 2617118-02 2026-04-10	BH26-03 SA2 0.76 - 1.37 2617118-03 2026-04-10	BH26-04 SA3 1.52 - 2.13 2617118-04 2026-04-10	BH26-07 SA2 0.76 - 1.37 2617118-05 2026-04-10	BH26-07 SA4 2.29 - 2.90 2617118-06 2026-04-10
Metals & Inorganics													
Antimony	6	6	6	NS	6	0.5	µg/L	0.7	0.7	<0.5	<0.5	2.6	1.4
Arsenic	NS	NS	NS	NS	10	1.0	µg/L	1.2	4.2	<1.0	<1.0	1.2	1.2
Barium	NS	1000	1000	4600	1000	1.0	µg/L	28.4	53.1	30.5	2.7	81.2	39.6
Beryllium	NS	4	4	11	4	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	NS	5000	5000	NS	5000	10.0	µg/L	18.4	<10.0	29.1	12.4	13.7	38.8
Cadmium	0.5	NS	0.5	0.5	0.5	0.2	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	NS	50	50	130	50	1.0	µg/L	1.3	2.7	1	<1.0	2.8	1.3
Cobalt	NS	3.8	3.8	10	3.8	0.5	µg/L	<0.5	0.8	<0.5	<0.5	1	<0.5
Copper	NS	14	14	14	14	0.5	µg/L	3.3	8.7	3.6	0.9	6.4	4.8
Lead	NS	NS	NS	NS	4	0.2	µg/L	15	43.5	4.6	<0.2	21.3	6.5
Molybdenum	23	23	23	1500	23	0.5	µg/L	4.1	1.3	3.1	1.6	1.5	4.6
Nickel	NS	78	78	78	78	1.0	µg/L	<1.0	2.8	<1.0	<1.0	1.8	<1.0
Selenium	NS	10	10	10	10	1.0	µg/L	<1.0	<1.0	<1.0	1.3	<1.0	<1.0
Silver	0.3	0.3	0.3	0.3	0.3	0.2	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	2	2	2	80	2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	NS	20	20	66	20	0.2	µg/L	0.2	0.3	0.4	<0.2	<0.2	0.3
Vanadium	NS	NS	NS	NS	6.2	0.5	µg/L	6.2	3.4	2.4	<0.5	4.7	5.8
Zinc	NS	180	180	180	180	5.0	µg/L	7.2	39.2	7.8	<5.0	13.8	6.5
VOCs													
Bromomethane	0.5	0.5	0.5	0.5	0.5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
Carbon Tetrachloride	0.2	0.2	0.2	0.2	0.2	0.2	µg/L	<0.2	<0.2	<0.2	<0.2	N/A	N/A
Chloroform	1	NS	NS	NS	NS	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
Ethylene dibromide (dibromoethane, 1,2-	0.2	0.2	0.2	0.2	0.2	0.2	µg/L	<0.2	<0.2	<0.2	<0.2	N/A	N/A
1,2-Dichlorobenzene	0.55	0.55	0.55	NS	0.55	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
1,4-Dichlorobenzene	0.5	0.5	0.5	NS	0.5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
1,2-Dichloroethane	0.5	0.5	0.5	NS	0.5	0.2	µg/L	<0.2	<0.2	<0.2	<0.2	N/A	N/A
1,1-Dichloroethane	0.5	NS	NS	NS	NS	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
1,1-Dichloroethylene	0.5	0.5	0.5	0.5	0.5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
cis-1,2-Dichloroethylene	0.5	0.5	0.5	NS	0.5	0.2	µg/L	<0.2	<0.2	<0.2	<0.2	N/A	N/A
trans-1,2-Dichloroethylene	0.5	0.5	0.5	0.5	0.5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
1,2-Dichloropropane	0.5	0.5	0.5	NS	0.5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
cis-1,3-Dichloropropylene	NS	NS	NS	NS	NS	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
trans-1,3-Dichloropropylene	NS	NS	NS	NS	NS	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
1,3-Dichloropropene, total	0.5	NS	NS	NS	NS	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
1,1,1,2-Tetrachloroethane	0.5	NS	NS	NS	NS	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
1,1,2,2-Tetrachloroethane	0.5	0.5	0.5	NS	0.5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
Tetrachloroethylene	0.5	0.5	0.5	0.5	0.5	0.5	µg/L	<0.5	<0.5	0.6	0.8	N/A	N/A
1,1,2-Trichloroethane	0.5	NS	NS	NS	NS	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A
Trichloroethylene	0.5	0.5	0.5	0.5	0.5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	N/A	N/A

Notes:
MDL - Method Detection Limit or Reporting Limit
'mbgs' - Metres Below Ground Surface
'NS' - No Standard
'<' - Non-Detect Sample
MECP Table 1 Ag LSL (O.Reg. 406/19): Rules for Soil Management and Excess Soil Quality Standards. Table 1: Leachate Screening Levels for Excess Soil Reuse, Agriculture or Other Property Use.
MECP Table 2.1 RPI LSL (O.Reg. 406/19): Rules for Soil Management and Excess Soil Quality Standards. Table 2.1: Leachate Screening Levels for Full Depth Excess Soil in a Potable Ground Water Condition, RPI Property Use.
MECP Table 2.1 ICC LSL (O.Reg. 406/19): Rules for Soil Management and Excess Soil Quality Standards. Table 2.1: Leachate Screening Levels for Full Depth Excess Soil in a Potable Ground Water Condition, ICC Property Use.
MECP Table 3.1 ICC LSL (O.Reg. 406/19): Rules for Soil Management and Excess Soil Quality Standards. Table 3.1: Leachate Screening Levels for Full Depth Excess Soil in a Non-Potable Ground Water Condition, ICC Property Use.
MECP Table 4.1 ICC LSL (O.Reg. 406/19): Rules for Soil Management and Excess Soil Quality Standards. Table 4.1: Leachate Screening Levels for Stratified Excess Soil in a Potable Ground Water Condition, ICC Property Use for Subsurface Soil.

Shaded	- Exceeds MECP Table 1 Agri Leachate
Bolded	- Exceeds MECP Table 2.1 RPI Leachate
Italics	- Exceeds MECP Table 2.1 ICC Leachate
Red	- Exceeds MECP Table 3.1 ICC Leachate
Underlined	- Exceeds MECP Table 4.1 ICC Subsurface Leachate

GEMTEC
Consulting Engineers and Scientists

Table C.4: Summary of Soil Analytical Results
Toxicity Leaching Characteristic Procedure (TCLP)
Infrastructure Upgrades Project
Eganville, Ontario

Contaminants of Concern	O. Reg. 558 - Schedule IV Leachate Quality Criteria	Reporting Limit or Method Detection Limit	Consultant Sample ID Sample Depth Lab ID Sampling Date Units	TCLP 2616424-01 2026-04-13
Metals & Inorganics				
Arsenic Leachate	2.5	0.05	mg/L	<0.05
Barium Leachate	100	0.05	mg/L	0.44
Boron Leachate	500	0.1	mg/L	<0.10
Cadmium Leachate	0.5	0.01	mg/L	<0.01
Chromium Leachate	5	0.05	mg/L	<0.05
Lead Leachate	5	0.05	mg/L	<0.05
Mercury Leachate	0.1	0.005	mg/L	<0.005
Selenium Leachate	1	0.05	mg/L	<0.05
Silver Leachate	5	0.05	mg/L	<0.05
Uranium Leachate	10	0.05	mg/L	<0.05
Fluoride Leachate	150	0.05	mg/L	0.17
Cyanide Leachate	20	0.02	mg/L	<0.02
(Nitrate + Nitrite as N Leachate	1000	2	mg/L	<2
Vinyl Chloride Leachate				
Benzene Leachate	0.5	0.005	mg/L	<0.005
Carbon Tetrachloride Leachate	0.5	0.005	mg/L	<0.005
Chlorobenzene Leachate	8	0.004	mg/L	<0.004
Chloroform	10	0.006	mg/L	<0.006
1,2-Dichlorobenzene Leachate	20	0.004	mg/L	<0.004
1,4-Dichlorobenzene Leachate	0.5	0.004	mg/L	<0.004
1,2-Dichloroethane Leachate	0.5	0.005	mg/L	<0.005
1,1 Dichloroethene Leachate	1.4	0.006	mg/L	<0.006
Methyl Ethyl Ketone Leachate	200	0.3	mg/L	<0.30
Methylene Chloride	NS	0.04	mg/L	<0.04
Tetrachloroethene Leachate	3	0.005	mg/L	<0.005
Trichloroethene Leachate	5	0.004	mg/L	<0.004
Vinyl Chloride Leachate	0.2	0.005	mg/L	<0.005
Organics				
Benzo[a]pyrene		0.0001	mg/L	<0.0001
Physical Characteristics				
Flashpoint			°C	>70

Notes:
MDL - Method Detection Limit or Reporting Limit
'mbgs' - Metres Below Ground Surface
'NS' - No Standard
'NA' - Not Analyzed
<' - Non-Detect Sample
BOLD - Exceeds O. Reg. 558 - Schedule IV Leachate Quality Criteria

Client: Township of Bonnechere Valley
Project Number: 101260.004
May 2026

APPENDIX D

Laboratory Certificates of Analysis

PARACEL LABORATORIES LTD.
TRUSTED. RESPONSIVE. RELIABLE.

300 - 2319 St. Laurent Blvd
Ottawa, ON, K1G 4J8
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive
Kanata, ON K2K 2A9
Attn: Dan Elliot

Client PO:
Project: 101260.004
Custody: 152156, 152157, 152158

Report Date: 17-Apr-2026
Order Date: 13-Apr-2026

Order #: 2616041

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

Paracel ID	Client ID	Paracel ID	Client ID
2616041-01	BH26-01 SA1	2616041-17	BH26-09 SA102
2616041-02	BH26-01 SA2	2616041-18	BH26-09 SA4
2616041-03	BH26-02 SA1A	2616041-19	BH26-10 SA1
2616041-04	BH26-02 SA2A	2616041-20	BH26-10 SA3
2616041-05	BH26-03 SA1A	2616041-21	BH26-10 SA5
2616041-06	BH26-03 SA1B	2616041-22	BH26-11 SA2
2616041-07	BH26-03 SA2	2616041-23	BH26-11 SA102
2616041-08	BH26-04 SA1	2616041-24	BH26-11 SA4
2616041-09	BH26-04 SA2	2616041-25	BH26-11 SA5
2616041-10	BH26-04 SA3		
2616041-11	BH26-07 SA2		
2616041-12	BH26-07 SA4		
2616041-13	BH26-08 SA1		
2616041-14	BH26-08 SA3		
2616041-15	BH26-08 SA5		
2616041-16	BH26-09 SA2		

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	Ottawa	14-Apr-26	14-Apr-26
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	Ottawa	14-Apr-26	16-Apr-26
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	Ottawa	14-Apr-26	16-Apr-26
Conductivity	MOE E3138 - probe @25 °C, water ext	Ottawa	14-Apr-26	14-Apr-26
Cyanide, free	MOE E3015 - Auto Colour, water extraction	Ottawa	16-Apr-26	16-Apr-26
Mercury by CVAA	EPA 7471B - CVAA, digestion	Ottawa	15-Apr-26	15-Apr-26
pH, soil	MOE E3137 - probe @25 °C, CaCl2 ext	Ottawa	16-Apr-26	16-Apr-26
PHC F1	CWS Tier 1 - P&T GC-FID	Ottawa	14-Apr-26	15-Apr-26
PHC F4G (gravimetric)	CWS Tier 1 - Extraction Gravimetric	Ottawa	15-Apr-26	16-Apr-26
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	Ottawa	14-Apr-26	14-Apr-26
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	Ottawa	14-Apr-26	14-Apr-26
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	Ottawa	13-Apr-26	15-Apr-26
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	Ottawa	14-Apr-26	15-Apr-26
SAR	Calculated	Ottawa	14-Apr-26	14-Apr-26
Solids, %	CWS Tier 1 - Gravimetric		14-Apr-26	15-Apr-26

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-01 SA1	BH26-01 SA2	BH26-02 SA1A	BH26-02 SA2A	-	-
	Sample Date:	07-Apr-26 09:00	07-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-01	2616041-02	2616041-03	2616041-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	94.5	79.9	95.0	87.2	-	-
General Inorganics							
SAR	0.01 N/A	2.99	3.73	14.8	6.17	-	-
Conductivity	5 uS/cm	415	637	1580	611	-	-
Cyanide, free	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	-	-
pH	0.05 pH Units	7.98	7.30	8.09	7.85	-	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	1.7	2.2	1.7	1.5	-	-
Barium	1.0 ug/g	54.7	91.4	42.3	28.3	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	14.1	9.0	10.2	6.4	-	-
Boron, available	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	15.4	19.7	15.0	12.8	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	<0.2	<0.2	-	-
Cobalt	1.0 ug/g	5.9	5.4	4.6	5.2	-	-
Copper	5.0 ug/g	16.1	14.5	11.4	12.4	-	-
Lead	1.0 ug/g	5.4	52.4	5.9	5.2	-	-
Mercury	0.1 ug/g	<0.1	0.3	<0.1	<0.1	-	-
Molybdenum	1.0 ug/g	<1.0	2.1	<1.0	<1.0	-	-
Nickel	5.0 ug/g	11.1	9.1	8.9	9.0	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-

	Client ID:	BH26-01 SA1	BH26-01 SA2	BH26-02 SA1A	BH26-02 SA2A	-	-
	Sample Date:	07-Apr-26 09:00	07-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-01	2616041-02	2616041-03	2616041-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	24.0	26.3	26.6	24.2	-	-
Zinc	20.0 ug/g	25.1	41.8	24.7	20.9	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Bromodichloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Bromoform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Bromomethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Chlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Chloroform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Dibromochloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Ethylbenzene	0.05 ug/g	<0.05	0.08	<0.05	<0.05	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-01 SA1	BH26-01 SA2	BH26-02 SA1A	BH26-02 SA2A	-	-
	Sample Date:	07-Apr-26 09:00	07-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-01	2616041-02	2616041-03	2616041-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Hexane	0.05 ug/g	<0.05	0.22	<0.05	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Methylene Chloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Styrene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	0.21	<0.05	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Trichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Vinyl chloride	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
m,p-Xylenes	0.05 ug/g	<0.05	0.80	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	0.25	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	1.05	<0.05	<0.05	-	-
4-Bromofluorobenzene	Surrogate	102%	115%	101%	107%	-	-
Dibromofluoromethane	Surrogate	95.0%	105%	95.9%	101%	-	-
Toluene-d8	Surrogate	101%	115%	101%	105%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	45	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	7	712	<80 [1]	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	21	1270	361	42	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-01 SA1	BH26-01 SA2	BH26-02 SA1A	BH26-02 SA2A	-	-
	Sample Date:	07-Apr-26 09:00	07-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-01	2616041-02	2616041-03	2616041-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Hydrocarbons							
F4 PHCs (C34-C50)	6 ug/g	16	228 [2]	1580 [2]	95	-	-
F4G PHCs (gravimetric)	50 ug/g	-	1180	2450	-	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Anthracene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Benzo [a] pyrene	0.02 ug/g	0.03	-	<0.20 [1]	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.02	-	<0.20 [1]	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Chrysene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Fluoranthene	0.02 ug/g	0.03	-	<0.20 [1]	-	-	-
Fluorene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	<0.40 [1]	-	-	-
Naphthalene	0.01 ug/g	<0.01	-	<0.10 [1]	-	-	-
Phenanthrene	0.02 ug/g	<0.02	-	<0.20 [1]	-	-	-
Pyrene	0.02 ug/g	0.03	-	<0.20 [1]	-	-	-
2-Fluorobiphenyl	Surrogate	99.5%	-	63.4%	-	-	-
Terphenyl-d14	Surrogate	121%	-	70.0%	-	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-03 SA1A	BH26-03 SA1B	BH26-03 SA2	BH26-04 SA1	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-05	2616041-06	2616041-07	2616041-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	92.5	89.0	73.9	94.3	-	-
General Inorganics							
SAR	0.01 N/A	4.53	3.35	8.61	3.01	-	-
Conductivity	5 uS/cm	678	504	1580	428	-	-
Cyanide, free	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	-	-
pH	0.05 pH Units	7.89	7.80	7.21	7.93	-	-
Metals							
Antimony	1.0 ug/g	<1.0	1.4	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	2.1	9.2	4.1	1.4	-	-
Barium	1.0 ug/g	40.7	115	111	48.2	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	0.6	<0.5	-	-
Boron	5.0 ug/g	8.7	10.4	13.9	11.5	-	-
Boron, available	0.5 ug/g	<0.5	<0.5	0.9	<0.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	11.6	13.8	15.0	14.4	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	<0.2	<0.2	-	-
Cobalt	1.0 ug/g	4.0	7.0	5.3	5.5	-	-
Copper	5.0 ug/g	11.5	33.6	13.7	13.0	-	-
Lead	1.0 ug/g	20.7	131	75.1	4.2	-	-
Mercury	0.1 ug/g	<0.1	0.1	0.4	<0.1	-	-
Molybdenum	1.0 ug/g	<1.0	1.5	<1.0	<1.0	-	-
Nickel	5.0 ug/g	8.0	16.0	8.3	9.5	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-

	Client ID:	BH26-03 SA1A	BH26-03 SA1B	BH26-03 SA2	BH26-04 SA1	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-05	2616041-06	2616041-07	2616041-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	18.5	19.2	17.7	23.8	-	-
Zinc	20.0 ug/g	27.4	108	43.4	26.0	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Bromodichloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Bromoform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Bromomethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Chlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Chloroform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Dibromochloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-03 SA1A	BH26-03 SA1B	BH26-03 SA2	BH26-04 SA1	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-05	2616041-06	2616041-07	2616041-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Hexane	0.05 ug/g	<0.05	0.07	<0.05	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Methylene Chloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Styrene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	0.09	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	0.22	<0.05	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Trichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Vinyl chloride	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
m,p-Xylenes	0.05 ug/g	<0.05	0.29	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	0.25	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	0.53	<0.05	<0.05	-	-
4-Bromofluorobenzene	Surrogate	104%	103%	118%	103%	-	-
Dibromofluoromethane	Surrogate	98.5%	98.8%	110%	97.0%	-	-
Toluene-d8	Surrogate	102%	101%	115%	101%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	12	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	88	147	12	88	-	-

	Client ID:	BH26-03 SA1A	BH26-03 SA1B	BH26-03 SA2	BH26-04 SA1	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-05	2616041-06	2616041-07	2616041-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Hydrocarbons							
F4 PHCs (C34-C50)	6 ug/g	208 [2]	80	17	251 [2]	-	-
F4G PHCs (gravimetric)	50 ug/g	281	-	-	403	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Acenaphthylene	0.02 ug/g	0.03	-	-	<0.02	-	-
Anthracene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	0.04	-	-	<0.02	-	-
Benzo [a] pyrene	0.02 ug/g	0.09	-	-	<0.02	-	-
Benzo [b] fluoranthene	0.02 ug/g	0.08	-	-	<0.02	-	-
Benzo [g,h,i] perylene	0.02 ug/g	0.07	-	-	<0.02	-	-
Benzo [k] fluoranthene	0.02 ug/g	0.04	-	-	<0.02	-	-
Chrysene	0.02 ug/g	0.05	-	-	<0.02	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Fluoranthene	0.02 ug/g	0.05	-	-	<0.02	-	-
Fluorene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	0.05	-	-	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	0.05	-	-	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	0.05	-	-	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	0.10	-	-	<0.04	-	-
Naphthalene	0.01 ug/g	0.04	-	-	<0.01	-	-
Phenanthrene	0.02 ug/g	0.04	-	-	<0.02	-	-
Pyrene	0.02 ug/g	0.06	-	-	<0.02	-	-
2-Fluorobiphenyl	Surrogate	78.5%	-	-	80.5%	-	-
Terphenyl-d14	Surrogate	107%	-	-	94.5%	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-04 SA2	BH26-04 SA3	BH26-07 SA2	BH26-07 SA4	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-09	2616041-10	2616041-11	2616041-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	94.7	89.6	85.2	66.8	-	-
General Inorganics							
SAR	0.01 N/A	1.66	2.92	0.95	2.14	-	-
Conductivity	5 uS/cm	187	354	211	383	-	-
Cyanide, free	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	-	-
pH	0.05 pH Units	7.68	7.99	7.60	7.12	-	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	4.4	<1.0	-	-
Arsenic	1.0 ug/g	<1.0	3.2	2.1	2.0	-	-
Barium	1.0 ug/g	14.4	25.1	57.1	83.9	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	<5.0	7.4	7.8	10.7	-	-
Boron, available	0.5 ug/g	<0.5	<0.5	<0.5	1.4	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	5.4	9.6	13.6	20.7	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	<0.2	<0.2	-	-
Cobalt	1.0 ug/g	2.4	5.5	4.7	6.6	-	-
Copper	5.0 ug/g	6.7	16.4	14.8	15.5	-	-
Lead	1.0 ug/g	1.7	8.5	53.9	24.7	-	-
Mercury	0.1 ug/g	<0.1	<0.1	<0.1	0.1	-	-
Molybdenum	1.0 ug/g	<1.0	1.4	<1.0	<1.0	-	-
Nickel	5.0 ug/g	<5.0	8.8	8.8	11.2	-	-
Selenium	1.0 ug/g	<1.0	1.1	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-

	Client ID:	BH26-04 SA2	BH26-04 SA3	BH26-07 SA2	BH26-07 SA4	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-09	2616041-10	2616041-11	2616041-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	11.3	<10.0	21.4	31.6	-	-
Zinc	20.0 ug/g	<20.0	<20.0	45.3	43.4	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	<0.50	-	-	-	-
Benzene	0.02 ug/g	<0.02	<0.02	-	-	-	-
Bromodichloromethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
Bromoform	0.05 ug/g	<0.05	<0.05	-	-	-	-
Bromomethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	<0.05	-	-	-	-
Chlorobenzene	0.05 ug/g	<0.05	<0.05	-	-	-	-
Chloroform	0.05 ug/g	<0.05	<0.05	-	-	-	-
Dibromochloromethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	<0.05	-	-	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	-	-	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	<0.05	-	-	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	<0.05	-	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	-	-	-	-

	Client ID:	BH26-04 SA2	BH26-04 SA3	BH26-07 SA2	BH26-07 SA4	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-09	2616041-10	2616041-11	2616041-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	<0.05	-	-	-	-
Hexane	0.05 ug/g	<0.05	<0.05	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50	-	-	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50	-	-	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	<0.05	-	-	-	-
Methylene Chloride	0.05 ug/g	<0.05	<0.05	-	-	-	-
Styrene	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	0.44	-	-	-	-
Toluene	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
Trichloroethylene	0.05 ug/g	<0.05	<0.05	-	-	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	<0.05	-	-	-	-
Vinyl chloride	0.02 ug/g	<0.02	<0.02	-	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	-	-	-	-
4-Bromofluorobenzene	Surrogate	102%	106%	-	-	-	-
Dibromofluoromethane	Surrogate	95.1%	98.5%	-	-	-	-
Toluene-d8	Surrogate	101%	104%	-	-	-	-
Benzene	0.02 ug/g	-	-	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	-	-	<0.05	<0.05	-	-
Toluene	0.05 ug/g	-	-	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	-	-	<0.05	<0.05	-	-

	Client ID:	BH26-04 SA2	BH26-04 SA3	BH26-07 SA2	BH26-07 SA4	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-09	2616041-10	2616041-11	2616041-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
o-Xylene	0.05 ug/g	-	-	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	-	-	<0.05	<0.05	-	-
Toluene-d8	Surrogate	-	-	104%	120%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	21	27	13	12	-	-
F4 PHCs (C34-C50)	6 ug/g	18	66	8	12	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	-	<0.02	-	-	-
Acenaphthylene	0.02 ug/g	-	-	0.07	-	-	-
Anthracene	0.02 ug/g	-	-	0.04	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	-	0.14	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	-	0.21	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	-	0.13	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	-	0.13	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	-	0.07	-	-	-
Chrysene	0.02 ug/g	-	-	0.14	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	-	0.03	-	-	-
Fluoranthene	0.02 ug/g	-	-	0.23	-	-	-
Fluorene	0.02 ug/g	-	-	<0.02	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	-	0.10	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	-	<0.02	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	-	<0.02	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	-	<0.04	-	-	-
Naphthalene	0.01 ug/g	-	-	<0.01	-	-	-

	Client ID:	BH26-04 SA2	BH26-04 SA3	BH26-07 SA2	BH26-07 SA4	-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2616041-09	2616041-10	2616041-11	2616041-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Phenanthrene	0.02 ug/g	-	-	0.09	-	-	-
Pyrene	0.02 ug/g	-	-	0.21	-	-	-
2-Fluorobiphenyl	Surrogate	-	-	96.8%	-	-	-
Terphenyl-d14	Surrogate	-	-	98.1%	-	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-08 SA1	BH26-08 SA3	BH26-08 SA5	BH26-09 SA2	-	-
	Sample Date:	08-Apr-26 09:00	08-Apr-26 09:00	08-Apr-26 09:00	08-Apr-26 09:00		
	Sample ID:	2616041-13	2616041-14	2616041-15	2616041-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	96.4	88.7	90.2	91.2	-	-
General Inorganics							
SAR	0.01 N/A	33.3	7.80	1.11	6.65	-	-
Conductivity	5 uS/cm	2170	1030	187	948	-	-
Cyanide, free	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	-	-
pH	0.05 pH Units	8.09	7.84	7.78	7.98	-	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	2.0	1.1	<1.0	1.2	-	-
Barium	1.0 ug/g	33.1	55.2	92.1	42.4	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	12.3	8.8	5.5	10.3	-	-
Boron, available	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	14.0	14.9	18.8	13.0	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	<0.2	<0.2	-	-
Cobalt	1.0 ug/g	5.4	5.2	6.2	4.4	-	-
Copper	5.0 ug/g	14.2	10.4	11.3	9.6	-	-
Lead	1.0 ug/g	4.8	3.2	2.3	3.9	-	-
Mercury	0.1 ug/g	<0.1	<0.1	<0.1	<0.1	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	9.7	9.0	10.4	7.6	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-08 SA1	BH26-08 SA3	BH26-08 SA5	BH26-09 SA2	-	-
	Sample Date:	08-Apr-26 09:00	08-Apr-26 09:00	08-Apr-26 09:00	08-Apr-26 09:00		
	Sample ID:	2616041-13	2616041-14	2616041-15	2616041-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	23.4	26.6	31.5	20.9	-	-
Zinc	20.0 ug/g	25.9	<20.0	26.0	<20.0	-	-
Volatiles							
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	99.1%	106%	105%	103%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	91	<8	<8	164	-	-
F4 PHCs (C34-C50)	6 ug/g	176 [2]	<6	<6	221 [2]	-	-
F4G PHCs (gravimetric)	50 ug/g	373	-	-	417	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Anthracene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Chrysene	0.02 ug/g	<0.02	-	-	<0.02	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-08 SA1	BH26-08 SA3	BH26-08 SA5	BH26-09 SA2	-	-
	Sample Date:	08-Apr-26 09:00	08-Apr-26 09:00	08-Apr-26 09:00	08-Apr-26 09:00		
	Sample ID:	2616041-13	2616041-14	2616041-15	2616041-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Fluorene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	<0.04	-	-
Naphthalene	0.01 ug/g	<0.01	-	-	<0.01	-	-
Phenanthrene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Pyrene	0.02 ug/g	<0.02	-	-	<0.02	-	-
2-Fluorobiphenyl	Surrogate	75.2%	-	-	82.6%	-	-
Terphenyl-d14	Surrogate	105%	-	-	92.1%	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-09 SA102	BH26-09 SA4	BH26-10 SA1	BH26-10 SA3	-	-
	Sample Date:	08-Apr-26 09:00	08-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00		
	Sample ID:	2616041-17	2616041-18	2616041-19	2616041-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	93.5	88.8	96.5	89.4	-	-
General Inorganics							
SAR	0.01 N/A	5.82	1.31	1.10	3.06	-	-
Conductivity	5 uS/cm	915	204	192	411	-	-
Cyanide, free	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	-	-
pH	0.05 pH Units	8.04	7.76	7.99	7.71	-	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	1.3	1.3	1.4	1.1	-	-
Barium	1.0 ug/g	41.5	150	53.2	73.1	-	-
Beryllium	0.5 ug/g	<0.5	0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	9.7	9.8	10.8	9.7	-	-
Boron, available	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	13.3	26.7	14.1	18.6	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	<0.2	<0.2	-	-
Cobalt	1.0 ug/g	4.3	8.4	5.7	6.1	-	-
Copper	5.0 ug/g	9.4	19.1	12.0	12.9	-	-
Lead	1.0 ug/g	3.1	3.3	4.1	3.5	-	-
Mercury	0.1 ug/g	<0.1	<0.1	<0.1	<0.1	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	7.4	16.7	10.1	11.1	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-09 SA102	BH26-09 SA4	BH26-10 SA1	BH26-10 SA3	-	-
	Sample Date:	08-Apr-26 09:00	08-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00		
	Sample ID:	2616041-17	2616041-18	2616041-19	2616041-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	21.5	39.0	26.1	29.9	-	-
Zinc	20.0 ug/g	<20.0	38.5	25.8	25.2	-	-
Volatiles							
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	102%	104%	99.7%	105%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<40 [1]	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	50	<8	211	9	-	-
F4 PHCs (C34-C50)	6 ug/g	100	<6	948 [2]	8	-	-
F4G PHCs (gravimetric)	50 ug/g	-	-	1500	-	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Chrysene	0.02 ug/g	<0.02	-	<0.02	-	-	-

	Client ID:	BH26-09 SA102	BH26-09 SA4	BH26-10 SA1	BH26-10 SA3	-	-
	Sample Date:	08-Apr-26 09:00	08-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00		
	Sample ID:	2616041-17	2616041-18	2616041-19	2616041-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Fluoranthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Fluorene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	-	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	<0.04	-	-	-
Naphthalene	0.01 ug/g	<0.01	-	<0.01	-	-	-
Phenanthrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Pyrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
2-Fluorobiphenyl	Surrogate	73.0%	-	96.1%	-	-	-
Terphenyl-d14	Surrogate	97.6%	-	117%	-	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-10 SA5	BH26-11 SA2	BH26-11 SA102	BH26-11 SA4	-	-
	Sample Date:	09-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00		
	Sample ID:	2616041-21	2616041-22	2616041-23	2616041-24		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	91.6	90.8	90.9	91.8	-	-
General Inorganics							
SAR	0.01 N/A	1.83	1.05	1.09	1.00	-	-
Conductivity	5 uS/cm	373	159	162	160	-	-
Cyanide, free	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	-	-
pH	0.05 pH Units	7.81	7.84	7.68	7.74	-	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	1.1	1.6	1.6	1.2	-	-
Barium	1.0 ug/g	69.1	48.9	49.8	73.5	-	-
Beryllium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	7.3	7.0	7.7	7.9	-	-
Boron, available	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	18.0	14.1	15.3	17.3	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	0.2	<0.2	-	-
Cobalt	1.0 ug/g	6.1	5.3	5.7	6.3	-	-
Copper	5.0 ug/g	11.8	11.8	12.4	11.8	-	-
Lead	1.0 ug/g	2.8	9.1	9.4	2.9	-	-
Mercury	0.1 ug/g	<0.1	<0.1	<0.1	<0.1	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	5.0 ug/g	10.2	9.3	10.2	10.8	-	-
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-10 SA5	BH26-11 SA2	BH26-11 SA102	BH26-11 SA4	-	-
	Sample Date:	09-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00		
	Sample ID:	2616041-21	2616041-22	2616041-23	2616041-24		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	29.5	25.6	27.6	28.9	-	-
Zinc	20.0 ug/g	27.0	23.6	25.4	25.4	-	-
Volatiles							
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene-d8	Surrogate	103%	104%	103%	103%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	<4	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	16	109	66	32	-	-
F4 PHCs (C34-C50)	6 ug/g	30	173 [2]	130 [2]	128 [2]	-	-
F4G PHCs (gravimetric)	50 ug/g	-	386	209	251	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Acenaphthylene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Anthracene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Chrysene	0.02 ug/g	-	<0.02	<0.02	-	-	-

	Client ID:	BH26-10 SA5	BH26-11 SA2	BH26-11 SA102	BH26-11 SA4	-	-
	Sample Date:	09-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00	09-Apr-26 09:00		
	Sample ID:	2616041-21	2616041-22	2616041-23	2616041-24		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Fluoranthene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Fluorene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	<0.02	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	<0.02	<0.02	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	<0.04	<0.04	-	-	-
Naphthalene	0.01 ug/g	-	<0.01	<0.01	-	-	-
Phenanthrene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Pyrene	0.02 ug/g	-	<0.02	<0.02	-	-	-
2-Fluorobiphenyl	Surrogate	-	91.2%	66.0%	-	-	-
Terphenyl-d14	Surrogate	-	104%	84.1%	-	-	-

	Client ID:	BH26-11 SA5				-	-
	Sample Date:	09-Apr-26 09:00					
	Sample ID:	2616041-25					
	Matrix:	Soil					
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	91.2	-	-	-	-	-
General Inorganics							
SAR	0.01 N/A	0.63	-	-	-	-	-
Conductivity	5 uS/cm	135	-	-	-	-	-
Cyanide, free	0.03 ug/g	<0.03	-	-	-	-	-
pH	0.05 pH Units	7.75	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	-	-	-	-
Arsenic	1.0 ug/g	1.0	-	-	-	-	-
Barium	1.0 ug/g	60.4	-	-	-	-	-
Beryllium	0.5 ug/g	<0.5	-	-	-	-	-
Boron	5.0 ug/g	8.2	-	-	-	-	-
Boron, available	0.5 ug/g	<0.5	-	-	-	-	-
Cadmium	0.5 ug/g	<0.5	-	-	-	-	-
Chromium	5.0 ug/g	15.1	-	-	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	-	-	-	-	-
Cobalt	1.0 ug/g	5.3	-	-	-	-	-
Copper	5.0 ug/g	10.5	-	-	-	-	-
Lead	1.0 ug/g	2.7	-	-	-	-	-
Mercury	0.1 ug/g	<0.1	-	-	-	-	-
Molybdenum	1.0 ug/g	<1.0	-	-	-	-	-
Nickel	5.0 ug/g	8.8	-	-	-	-	-
Selenium	1.0 ug/g	<1.0	-	-	-	-	-
Silver	0.3 ug/g	<0.3	-	-	-	-	-
Thallium	1.0 ug/g	<1.0	-	-	-	-	-
Uranium	1.0 ug/g	<1.0	-	-	-	-	-

	Client ID:	BH26-11 SA5				-	-
	Sample Date:	09-Apr-26 09:00					
	Sample ID:	2616041-25					
	Matrix:	Soil					
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	26.7	-	-	-	-	-
Zinc	20.0 ug/g	21.5	-	-	-	-	-
Volatiles							
Benzene	0.02 ug/g	<0.02	-	-	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-	-
Toluene	0.05 ug/g	<0.05	-	-	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-	-
Toluene-d8	Surrogate	102%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	-	-
F3 PHCs (C16-C34)	8 ug/g	16	-	-	-	-	-
F4 PHCs (C34-C50)	6 ug/g	38	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Cyanide, free	ND	0.03	ug/g					
Hydrocarbons								
F4G PHCs (gravimetric)	ND	50	ug/g					
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Boron, available	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Mercury	ND	0.1	ug/g					
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*0.746*		*%*	*56.0*	*50-140*			
Surrogate: Terphenyl-d14	*1.29*		*%*	*97.1*	*50-140*			
Volatiles								
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	*8.12*		*%*	*102*	*50-140*			
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					

Method Quality Control: Blank

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

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	*8.22*		*%*	*103*	*50-140*			
Surrogate: Dibromofluoromethane	*6.90*		*%*	*86.2*	*50-140*			
Surrogate: Toluene-d8	*8.12*		*%*	*102*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	10.7	0.01	N/A	8.13			27.1	30	
Conductivity	1620	5	uS/cm	1630			0.4	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.79	0.05	pH Units	7.85			0.8	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	8	4	ug/g	7			20.0	30	
F3 PHCs (C16-C34)	39	8	ug/g	21			NC	30	
F4 PHCs (C34-C50)	42	6	ug/g	16			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	1.6	1.0	ug/g	1.7			3.3	30	
Barium	51.7	1.0	ug/g	54.7			5.7	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron, available	ND	0.5	ug/g	ND			NC	35	
Boron	13.1	5.0	ug/g	14.1			7.0	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	15.3	5.0	ug/g	15.4			1.0	30	
Cobalt	6.1	1.0	ug/g	5.9			3.3	30	
Copper	22.7	5.0	ug/g	16.1			34.3	30	
Lead	5.1	1.0	ug/g	5.4			5.4	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	10.7	5.0	ug/g	11.1			3.8	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	22.0	10.0	ug/g	24.0			8.8	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Zinc	24.7	20.0	ug/g	25.1			1.7	30	
Physical Characteristics									
% Solids	70.1	0.1	% by Wt.	71.3			1.8	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	0.061	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	0.129	0.02	ug/g	ND			NC	40	
Naphthalene	0.091	0.01	ug/g	ND			NC	40	
Phenanthrene	0.041	0.02	ug/g	ND			NC	40	
Pyrene	0.024	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	*1.38*		*%*		*97.8*	*50-140*			
Surrogate: Terphenyl-d14	*1.42*		*%*		*101*	*50-140*			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

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

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	*11.6*		*%*		*111*	*50-140*			
Surrogate: Dibromofluoromethane	*10.1*		*%*		*97.3*	*50-140*			
Surrogate: Toluene-d8	*11.4*		*%*		*109*	*50-140*			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	*11.4*		*%*		*109*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.193	0.03	ug/g	ND	51.8	50-150			
Hydrocarbons									
F1 PHCs (C6-C10)	172	7	ug/g	ND	85.9	85-115			
F2 PHCs (C10-C16)	78	4	ug/g	7	84.1	60-140			
F3 PHCs (C16-C34)	216	8	ug/g	21	94.0	60-140			
F4 PHCs (C34-C50)	145	6	ug/g	16	98.1	60-140			
F4G PHCs (gravimetric)	880	50	ug/g	ND	88.0	80-120			
Metals									
Antimony	42.4	1.0	ug/g	ND	84.7	70-130			
Arsenic	48.3	1.0	ug/g	ND	95.2	70-130			
Barium	70.0	1.0	ug/g	21.9	96.3	70-130			
Beryllium	51.9	0.5	ug/g	ND	104	70-130			
Boron, available	4.23	0.5	ug/g	ND	84.6	60-140			
Boron	56.6	5.0	ug/g	5.6	102	70-130			
Cadmium	45.6	0.5	ug/g	ND	91.2	70-130			
Chromium (VI)	4.5	0.2	ug/g	ND	85.0	48-112			
Chromium	57.2	5.0	ug/g	6.2	102	70-130			
Cobalt	51.8	1.0	ug/g	2.4	98.9	70-130			
Copper	52.2	5.0	ug/g	6.4	91.5	70-130			
Lead	46.1	1.0	ug/g	2.2	87.9	70-130			
Mercury	1.58	0.1	ug/g	ND	105	70-130			
Molybdenum	47.6	1.0	ug/g	ND	94.6	70-130			
Nickel	52.8	5.0	ug/g	ND	96.6	70-130			
Selenium	46.8	1.0	ug/g	ND	93.3	70-130			
Silver	46.9	0.3	ug/g	ND	93.7	70-130			
Thallium	47.6	1.0	ug/g	ND	95.0	70-130			
Uranium	48.6	1.0	ug/g	ND	96.9	70-130			
Vanadium	61.7	10.0	ug/g	ND	104	70-130			
Zinc	53.9	20.0	ug/g	ND	87.6	70-130			
Semi-Volatiles									

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Acenaphthene	0.141	0.02	ug/g	ND	80.2	50-140			
Acenaphthylene	0.138	0.02	ug/g	ND	78.5	50-140			
Anthracene	0.161	0.02	ug/g	ND	91.2	50-140			
Benzo [a] anthracene	0.190	0.02	ug/g	ND	108	50-140			
Benzo [a] pyrene	0.198	0.02	ug/g	ND	112	50-140			
Benzo [b] fluoranthene	0.172	0.02	ug/g	ND	97.7	50-140			
Benzo [g,h,i] perylene	0.171	0.02	ug/g	ND	97.1	50-140			
Benzo [k] fluoranthene	0.146	0.02	ug/g	ND	82.8	50-140			
Chrysene	0.178	0.02	ug/g	ND	101	50-140			
Dibenzo [a,h] anthracene	0.145	0.02	ug/g	ND	82.3	50-140			
Fluoranthene	0.163	0.02	ug/g	ND	92.6	50-140			
Fluorene	0.142	0.02	ug/g	ND	80.5	50-140			
Indeno [1,2,3-cd] pyrene	0.152	0.02	ug/g	ND	86.2	50-140			
1-Methylnaphthalene	0.238	0.02	ug/g	ND	135	50-140			
2-Methylnaphthalene	0.234	0.02	ug/g	ND	133	50-140			
Naphthalene	0.228	0.01	ug/g	ND	129	50-140			
Phenanthrene	0.202	0.02	ug/g	ND	115	50-140			
Pyrene	0.174	0.02	ug/g	ND	98.6	50-140			
Surrogate: 2-Fluorobiphenyl	*1.32*		*%*		*93.9*	*50-140*			
Surrogate: Terphenyl-d14	*1.49*		*%*		*106*	*50-140*			
Volatiles									
Acetone	9.18	0.50	ug/g	ND	91.8	50-140			
Benzene	3.80	0.02	ug/g	ND	95.0	60-130			
Bromodichloromethane	4.13	0.05	ug/g	ND	103	60-130			
Bromoform	3.42	0.05	ug/g	ND	85.5	60-130			
Bromomethane	4.62	0.05	ug/g	ND	116	50-140			
Carbon Tetrachloride	3.91	0.05	ug/g	ND	97.7	60-130			
Chlorobenzene	4.33	0.05	ug/g	ND	108	60-130			
Chloroform	4.49	0.05	ug/g	ND	112	60-130			
Dibromochloromethane	3.19	0.05	ug/g	ND	79.7	60-130			
Dichlorodifluoromethane	3.82	0.05	ug/g	ND	95.4	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	4.14	0.05	ug/g	ND	103	60-130			
1,3-Dichlorobenzene	4.24	0.05	ug/g	ND	106	60-130			
1,4-Dichlorobenzene	4.14	0.05	ug/g	ND	103	60-130			
1,1-Dichloroethane	4.19	0.05	ug/g	ND	105	60-130			
1,2-Dichloroethane	4.56	0.05	ug/g	ND	114	60-130			
1,1-Dichloroethylene	4.56	0.05	ug/g	ND	114	60-130			
cis-1,2-Dichloroethylene	4.29	0.05	ug/g	ND	107	60-130			
trans-1,2-Dichloroethylene	4.28	0.05	ug/g	ND	107	60-130			
1,2-Dichloropropane	3.69	0.05	ug/g	ND	92.4	60-130			
cis-1,3-Dichloropropylene	3.54	0.05	ug/g	ND	88.5	60-130			
trans-1,3-Dichloropropylene	3.81	0.05	ug/g	ND	95.2	60-130			
Ethylbenzene	4.23	0.05	ug/g	ND	106	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	3.49	0.05	ug/g	ND	87.3	60-130			
Hexane	3.39	0.05	ug/g	ND	84.9	60-130			
Methyl Ethyl Ketone (2-Butanone)	7.62	0.50	ug/g	ND	76.2	50-140			
Methyl Isobutyl Ketone	6.87	0.50	ug/g	ND	68.7	50-140			
Methyl tert-butyl ether	8.86	0.05	ug/g	ND	88.6	50-140			
Methylene Chloride	4.38	0.05	ug/g	ND	109	60-130			
Styrene	4.52	0.05	ug/g	ND	113	60-130			
1,1,1,2-Tetrachloroethane	3.59	0.05	ug/g	ND	89.8	60-130			
1,1,2,2-Tetrachloroethane	3.41	0.05	ug/g	ND	85.2	60-130			
Tetrachloroethylene	3.98	0.05	ug/g	ND	99.5	60-130			
Toluene	4.18	0.05	ug/g	ND	105	60-130			
1,1,1-Trichloroethane	4.25	0.05	ug/g	ND	106	60-130			
1,1,2-Trichloroethane	3.65	0.05	ug/g	ND	91.1	60-130			
Trichloroethylene	3.99	0.05	ug/g	ND	99.9	60-130			
Trichlorofluoromethane	4.25	0.05	ug/g	ND	106	50-140			
Vinyl chloride	4.71	0.02	ug/g	ND	118	50-140			
m,p-Xylenes	8.29	0.05	ug/g	ND	104	60-130			
o-Xylene	4.21	0.05	ug/g	ND	105	60-130			
Surrogate: 4-Bromofluorobenzene	*8.01*		*%*		*100*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*7.13*		*%*		*89.1*	*50-140*			
Surrogate: Toluene-d8	*7.76*		*%*		*96.9*	*50-140*			
Benzene	3.80	0.02	ug/g	ND	95.0	60-130			
Ethylbenzene	4.23	0.05	ug/g	ND	106	60-130			
Toluene	4.18	0.05	ug/g	ND	105	60-130			
m,p-Xylenes	8.29	0.05	ug/g	ND	104	60-130			
o-Xylene	4.21	0.05	ug/g	ND	105	60-130			
Surrogate: Toluene-d8	*7.76*		*%*		*96.9*	*50-140*			

Qualifier Notes:

Sample Qualifiers :

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

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

Applies to Samples: BH26-01 SA2, BH26-02 SA1A, BH26-03 SA1A, BH26-04 SA1, BH26-08 SA1, BH26-09 SA2, BH26-10 SA1, BH26-11 SA2, BH26-11 SA102, BH26-11 SA4

QC Qualifiers:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

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

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

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

CCME PHC additional information:

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

- F1 range corrected for BTEX.

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

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

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

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

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

PARACEL LABORATORIES L

Paracel ID: 2616041

Blvd.
4J8
bs.com
m

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2616041	№ 152156

Client Name: GEMTEC	Project Ref: 101260.004	Page 1 of 3
Contact Name: Dan Elliot	Quote #:	Turnaround Time
Address: 32 Steacie Dr	PO #:	☐ 1 day ☐ 3 day ☐ 2 day ☑ Regular
Telephone:	E-mail: dan.elliot@gemtec.ca ; jeffrey.gauthier@gemtec.ca	Date Required:

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

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	PHCs/VOC	M&I		
1	BH26-01 SA1	S		2		Apr 7/26		~~X~~		/					/	/		
2	BH26-01 SA2	|		1		|								/	/		
3	BH26-02 SA1A	|		2		Apr 10/26				/					/	/		
4	BH26-02 SA2A	|		1		|								/	/		
5	BH26-03 SA1A	|		2		|			/					/	/		
6	BH26-03 SA1B	|		1		|								/	/		
7	BH26-03 SA2	|		1		|								/	/		
8	BH26-04 SA1	|		2		|			/					/	/		
9	BH26-04 SA2	|		1		|								/	/		
10	BH26-04 SA3	|		1		|								/	/		

Comments:

Method of Delivery: Paracel Courier

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com

Relinquished By (Sign):	Received at Depot:	Received at Lab: MKdes	Verified By: LTJ
Relinquished By (Print): Jeffrey Gauthier	Date/Time:	Date/Time: 04/13/26 10:08	Date/Time: 13/04/26; 13:47
Date/Time: April 13/26	Temperature: °C	Temperature: 8.1 8.3	pH Verified: ☐ By:

PARACEL LABORATORIES

Paracel ID: 2616041

nt Blvd.
G 4J8

abs.com

www.paracellabs.com

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2616041	№ 152157

Client Name:	Project Ref:	Page 2 of 3
Contact Name:	Quote #:	**Turnaround Time**
Address:	PO #:	☐ 1 day ☐ 3 day
	E-mail:	☐ 2 day ☑ Regular
Telephone:		Date Required:

☐ REG 153/04 ☐ REG 406/19

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

Other Regulation

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

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

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	PHC/VOC	M&I		
1	BH26-07 SA2	S		2		Apr 10/26		/		/						/		
2	BH26-07 SA4			1				/								/		
3	BH26-08 SA1			2		Apr 8/26		/		/						/		
4	BH26-08 SA3			1				/								/		
5	BH26-08 SA5			1				/								/		
6	BH26-09 SA2			2				/		/						/		
7	BH26-09 SA102			2				/		/						/		
8	BH26-09 SA4			1				/								/		
9	BH26-10 SA1			2		Apr 9/26		/		/						/		
10	BH26-10 SA3			1				/								/		

Comments:

Method of Delivery: Paracel Courier

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com

Relinquished By (Sign):	Received at Depot:	Received at Lab: WHSE	Verified By: LTJ
Relinquished By (Print):	Date/Time:	Date/Time: 01/13/26 10:08	Date/Time: 13/04/26; 15:47
Date/Time:	Temperature: °C	Temperature: 8.1 8.3	pH Verified: ☐ By:

PARAC LABORATORIE

Paracel ID: 2616041

aurent Blvd.
o K1G 4J8
947
acellabs.com
abs.com

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2616041	Nº 152158

Client Name:	Project Ref:	Page 3 of 3
Contact Name:	Quote #:	**Turnaround Time**
Address:	PO #:	☐ 1 day ☐ 3 day
	E-mail:	☐ 2 day ☐ Regular
Telephone:		Date Required:

☐ REG 153/04 ☐ REG 406/19

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

Other Regulation

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

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

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	M&I			
1	BH26-10 SA5	S		1		Apr 9/26		/							/			
2	BH26-11 SA2	/		2		/		/		/					/			
3	BH26-11 SA102	/		2		/		/		/					/			
4	BH26-11 SA4	/		1		/		/							/			
5	BH26-11 SA5	/		1		/		/							/			
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: Paracel courier

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com

Relinquished By (Sign):	Received at Depot:	Received at Lab: Mirdel	Verified By: LTJ
Relinquished By (Print):	Date/Time:	Date/Time: 04/13/26 10:00	Date/Time: 13/04/26; 13:47
Date/Time:	Temperature: °C	Temperature: 81.83	pH Verified: ☐ By:

PARACEL LABORATORIES LTD. | TRUSTED. RESPONSIVE. RELIABLE.

Sample Chromatograms

GEMTEC Consulting Engineers and Scientists Limited

Report Date: 6-May-26
Order Date: 13-Apr-26

Project Description: **101260.004**

Order #: 2616041

GC-FID chromatograms for the samples listed below are included in the following pages. These chromatograms are a supplement to the Certificate of Analysis from the same work order

Paracel ID:	Client ID:
2616041-02	BH26-01 SA2
2616041-03	BH26-02 SA1A
2616041-05	BH26-03 SA1A
2616041-06	BH26-03 SA1B
2616041-08	BH26-04 SA1
2616041-11	BH26-07 SA2
2616041-13	BH26-08 SA1
2616041-16	BH26-09 SA2
2616041-19	BH26-10 SA1
2616041-22	BH26-11 SA2
2616041-23	BH26-11 SA102
2616041-24	BH26-11 SA4

PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

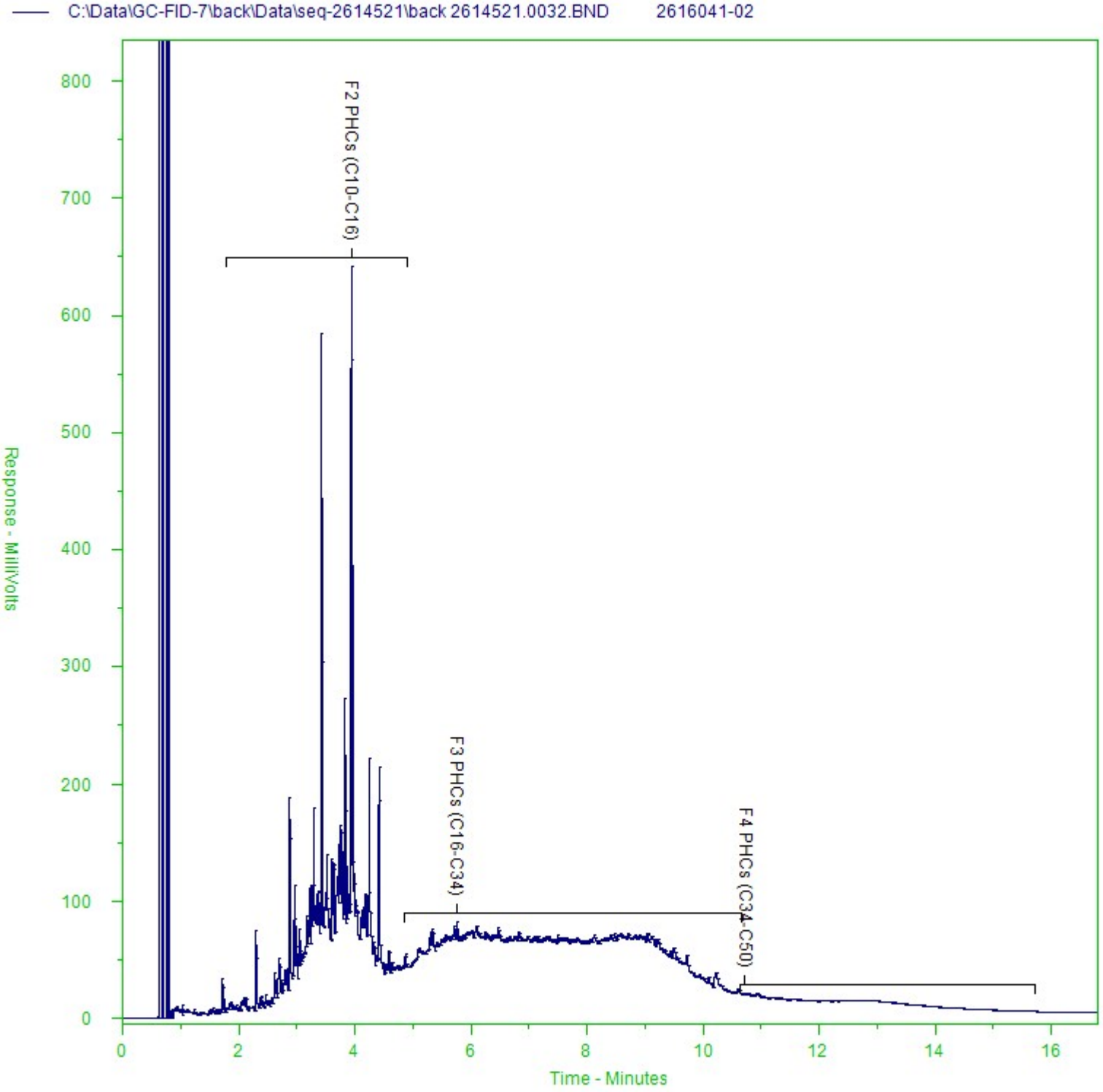
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 1: GC-FID Chromatogram for the sample *BH26-01 SA2*; Paracel ID: *2616041-02*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

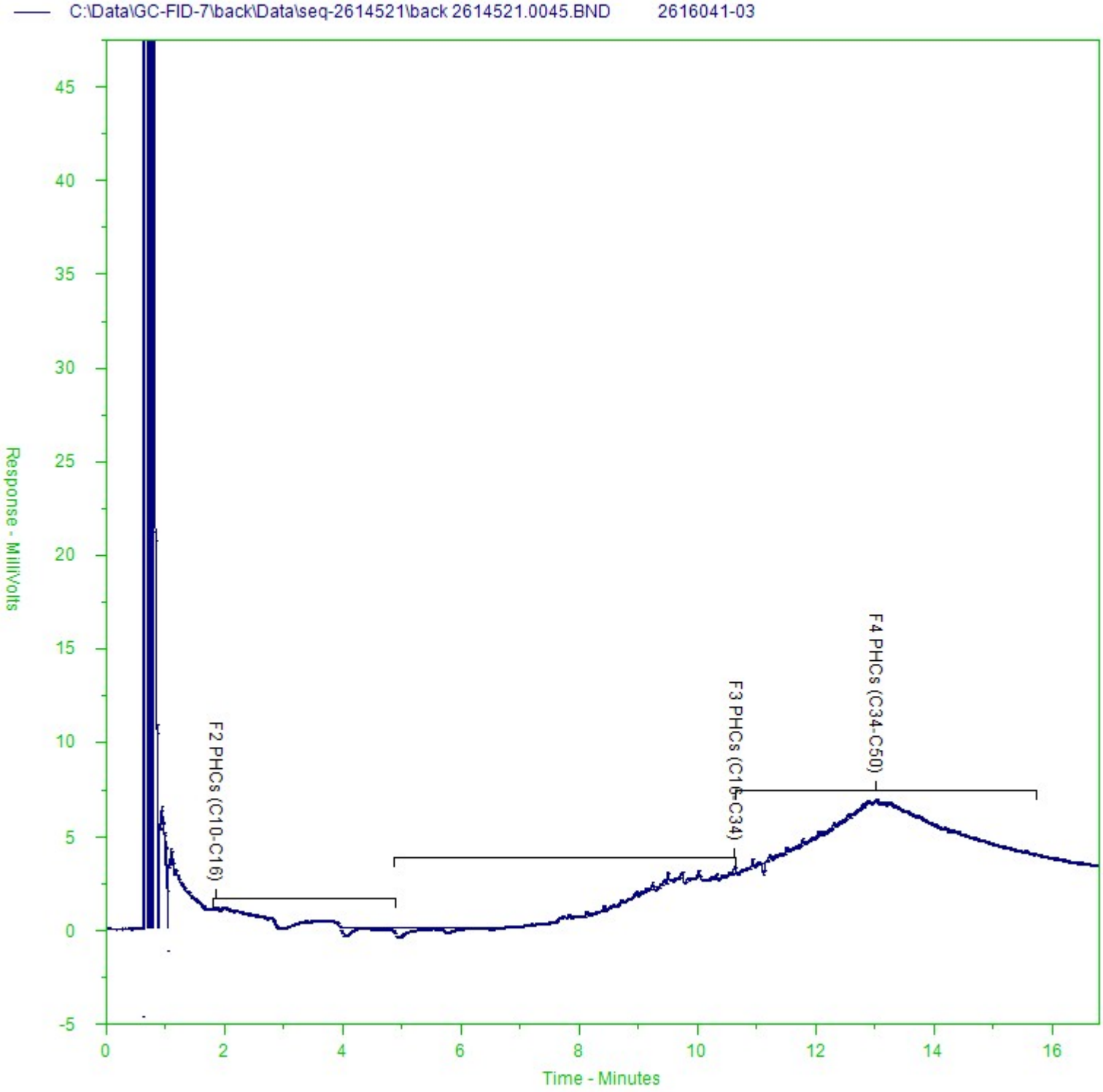
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 2: GC-FID Chromatogram for the sample *BH26-02 SA1A*; Paracel ID: *2616041-03*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

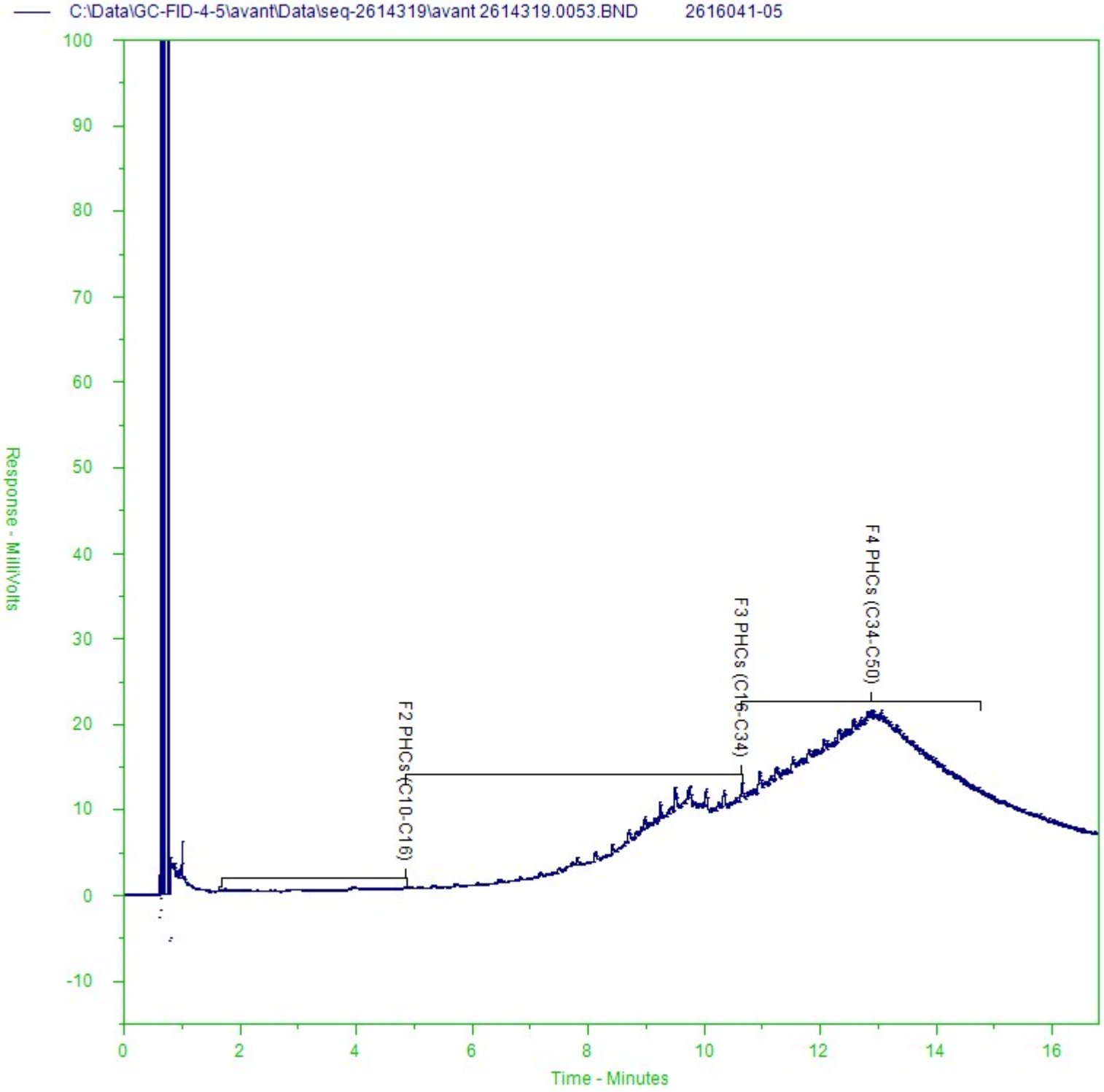
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 3: GC-FID Chromatogram for the sample *BH26-03 SA1A*; Paracel ID: *2616041-05*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

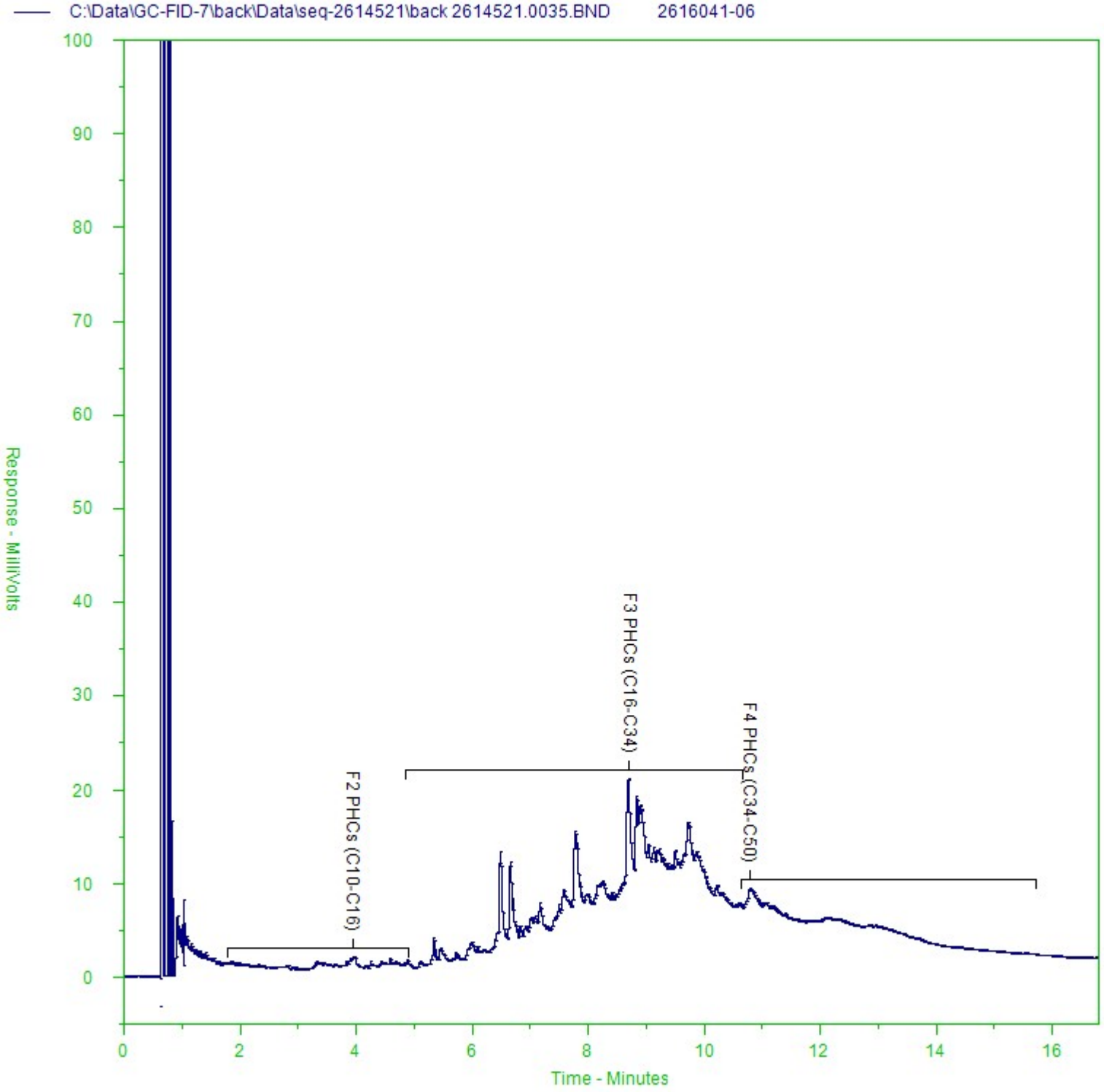
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 4: GC-FID Chromatogram for the sample *BH26-03 SA1B*; Paracel ID: *2616041-06*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

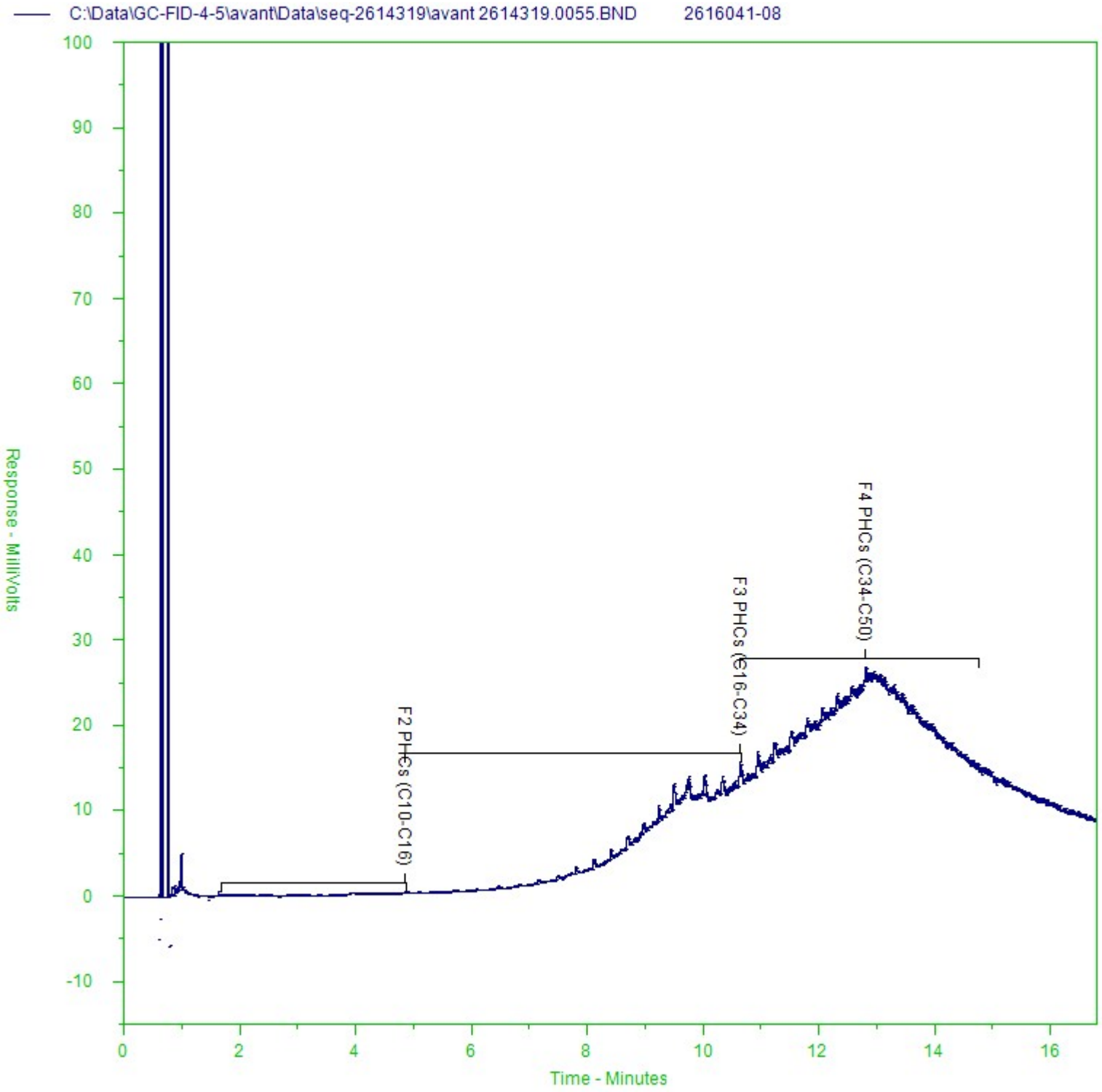
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 5: GC-FID Chromatogram for the sample *BH26-04 SA1*; Paracel ID: *2616041-08*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

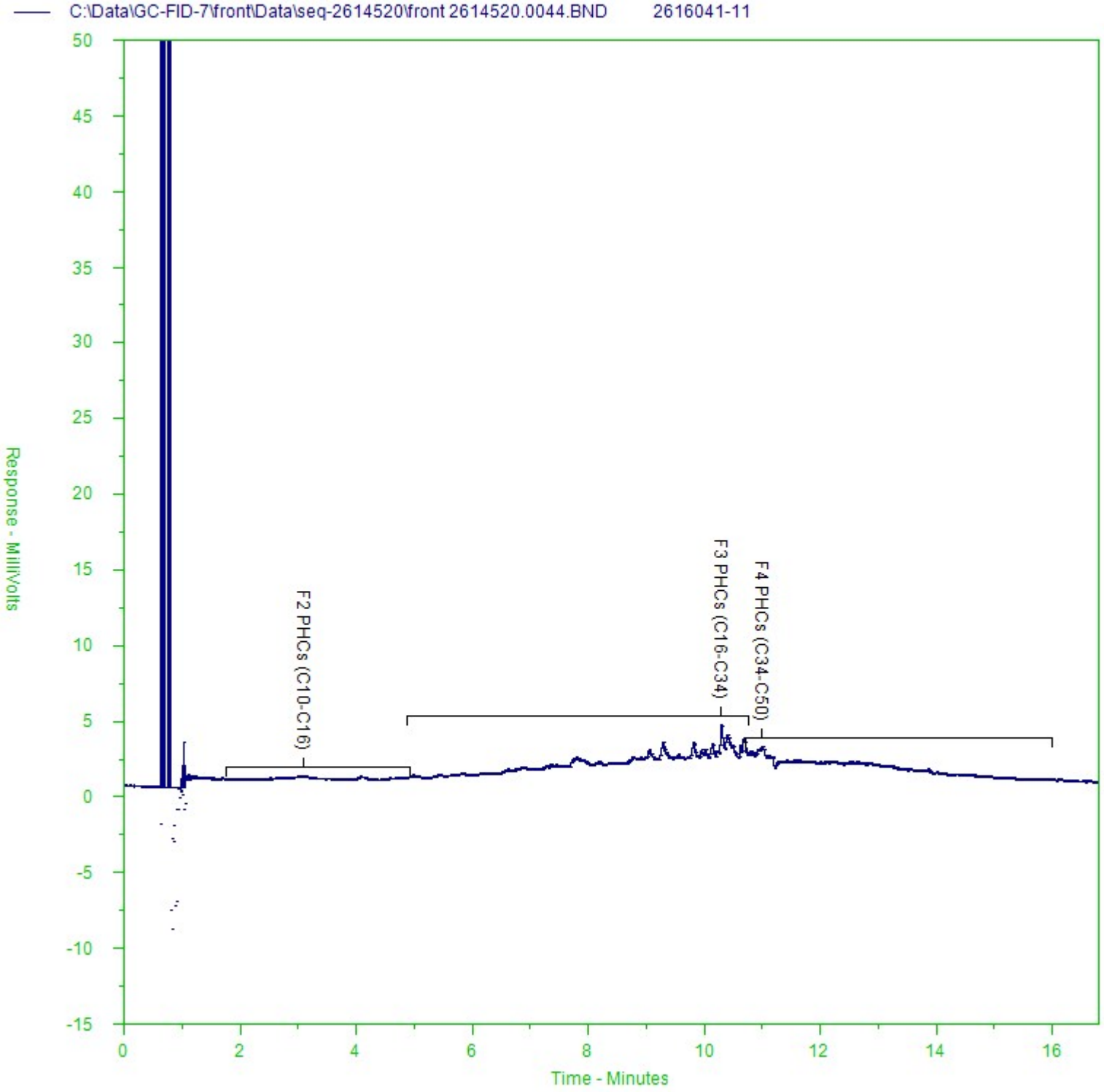
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 6: GC-FID Chromatogram for the sample *BH26-07 SA2*; Paracel ID: *2616041-11*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

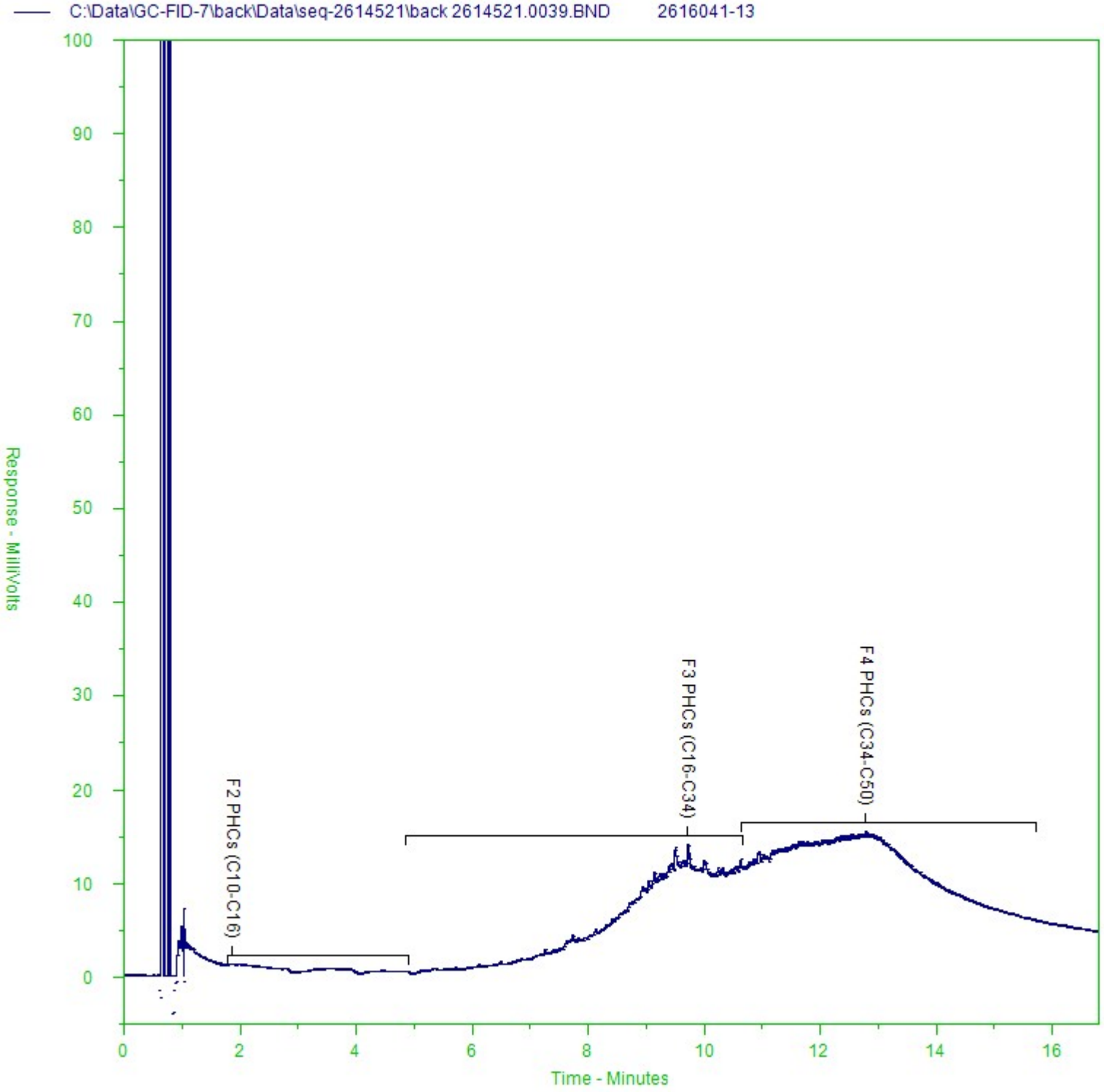
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 7: GC-FID Chromatogram for the sample *BH26-08 SA1*; Paracel ID: *2616041-13*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

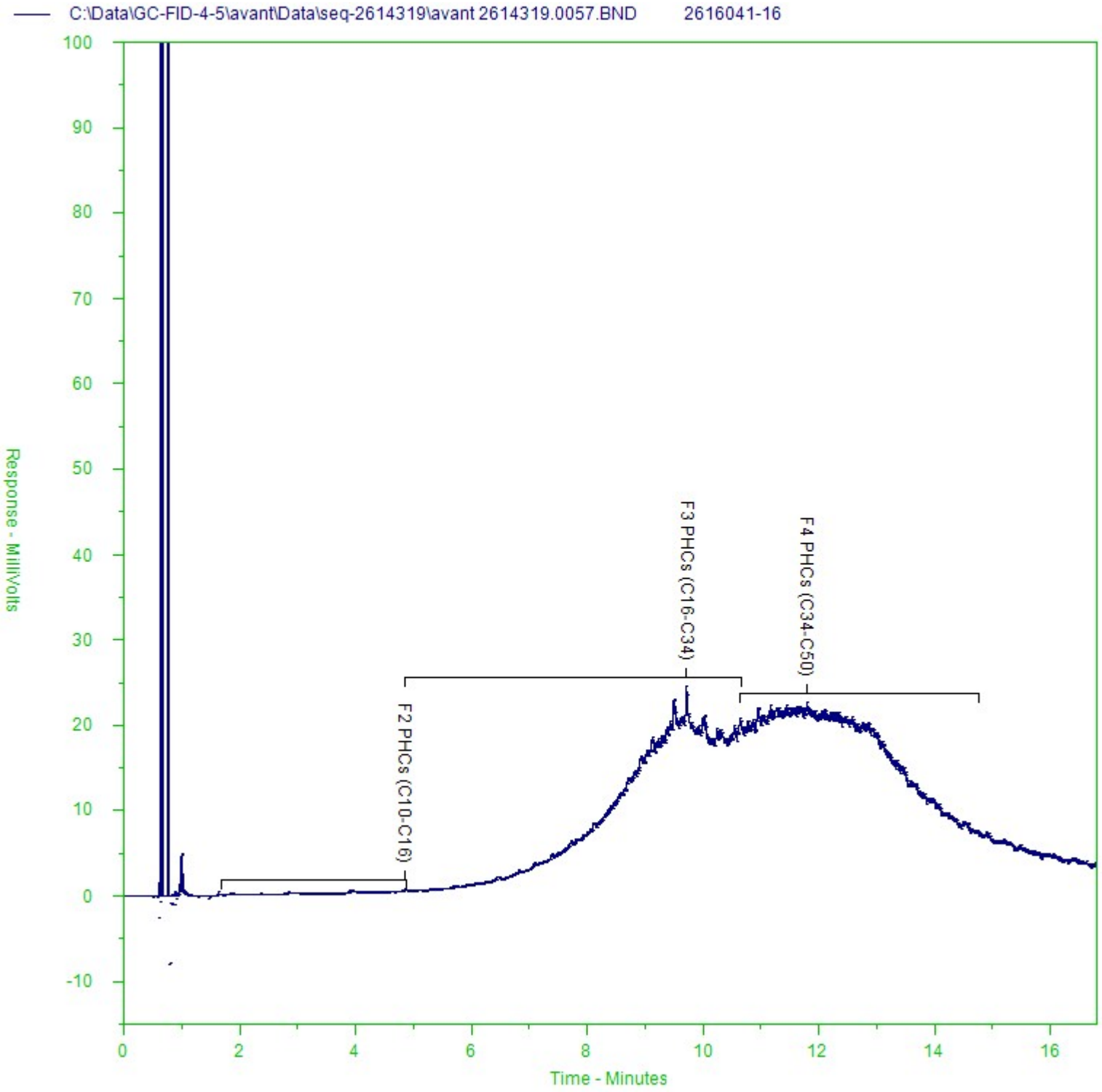
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 8: GC-FID Chromatogram for the sample *BH26-09 SA2*; Paracel ID: *2616041-16*



Sample Chromatograms

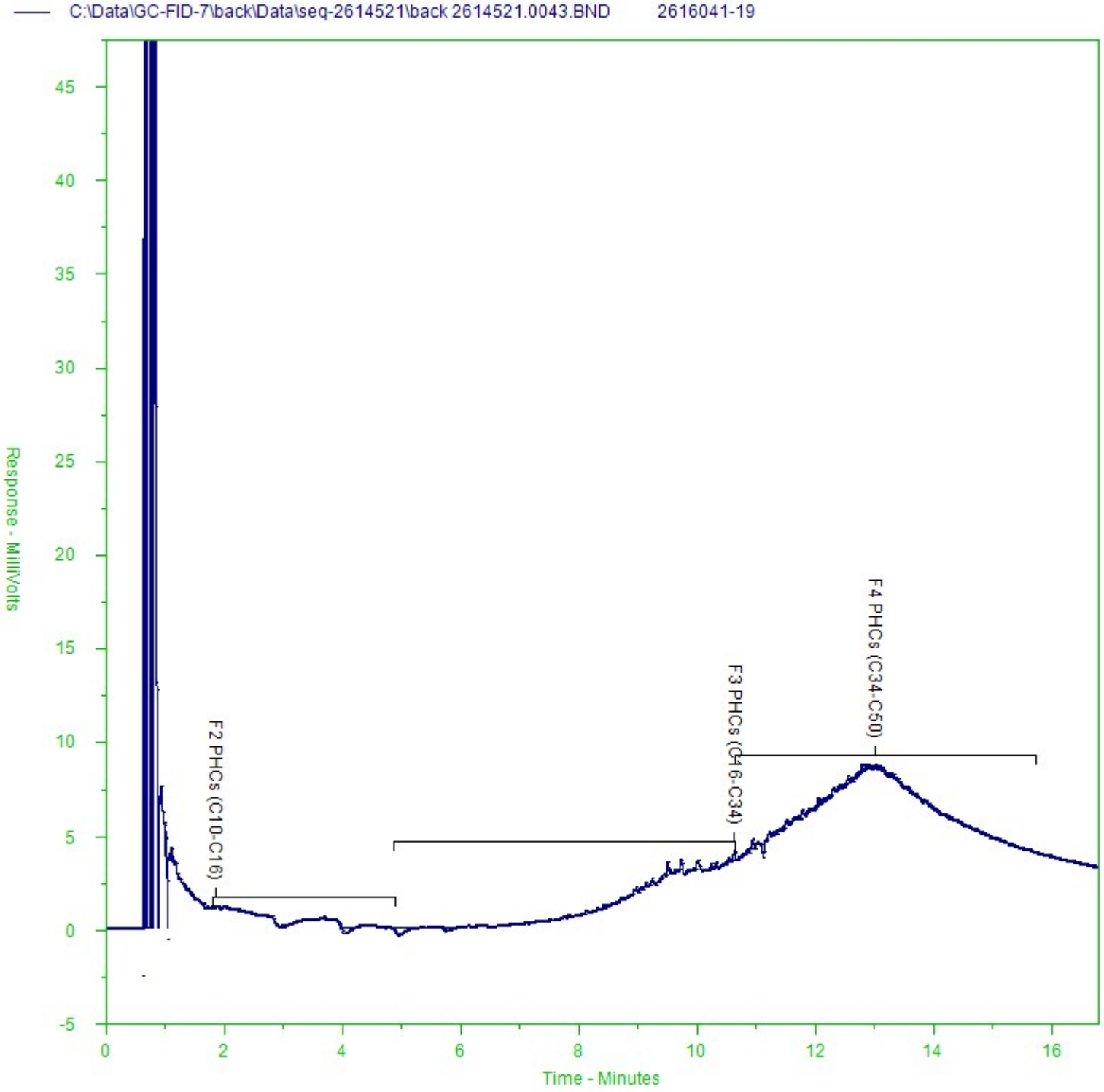
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 9: GC-FID Chromatogram for the sample *BH26-10 SA1*; Paracel ID: *2616041-19*



Sample Chromatograms

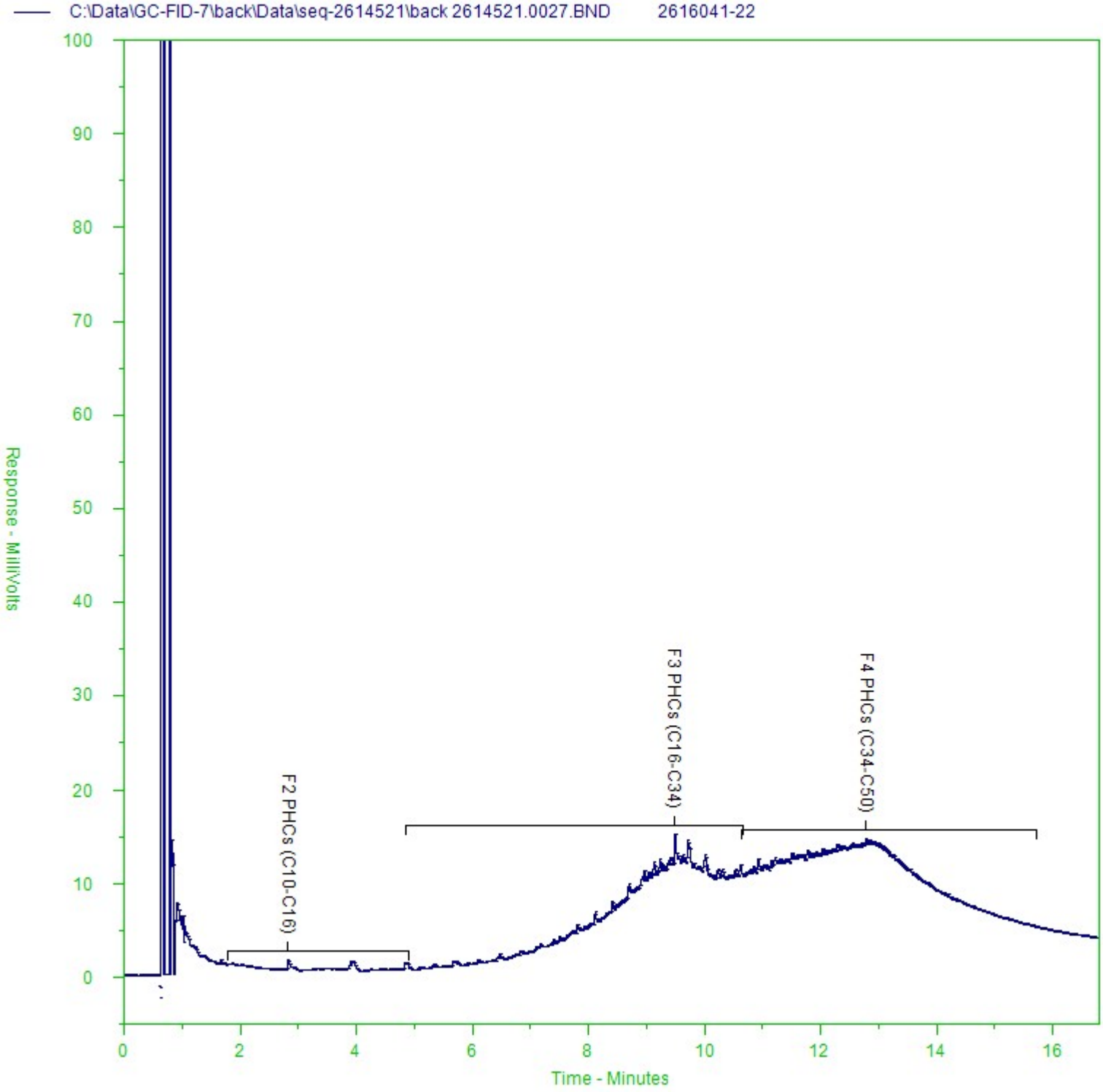
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 10: GC-FID Chromatogram for the sample *BH26-11 SA2*; Paracel ID: *2616041-22*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

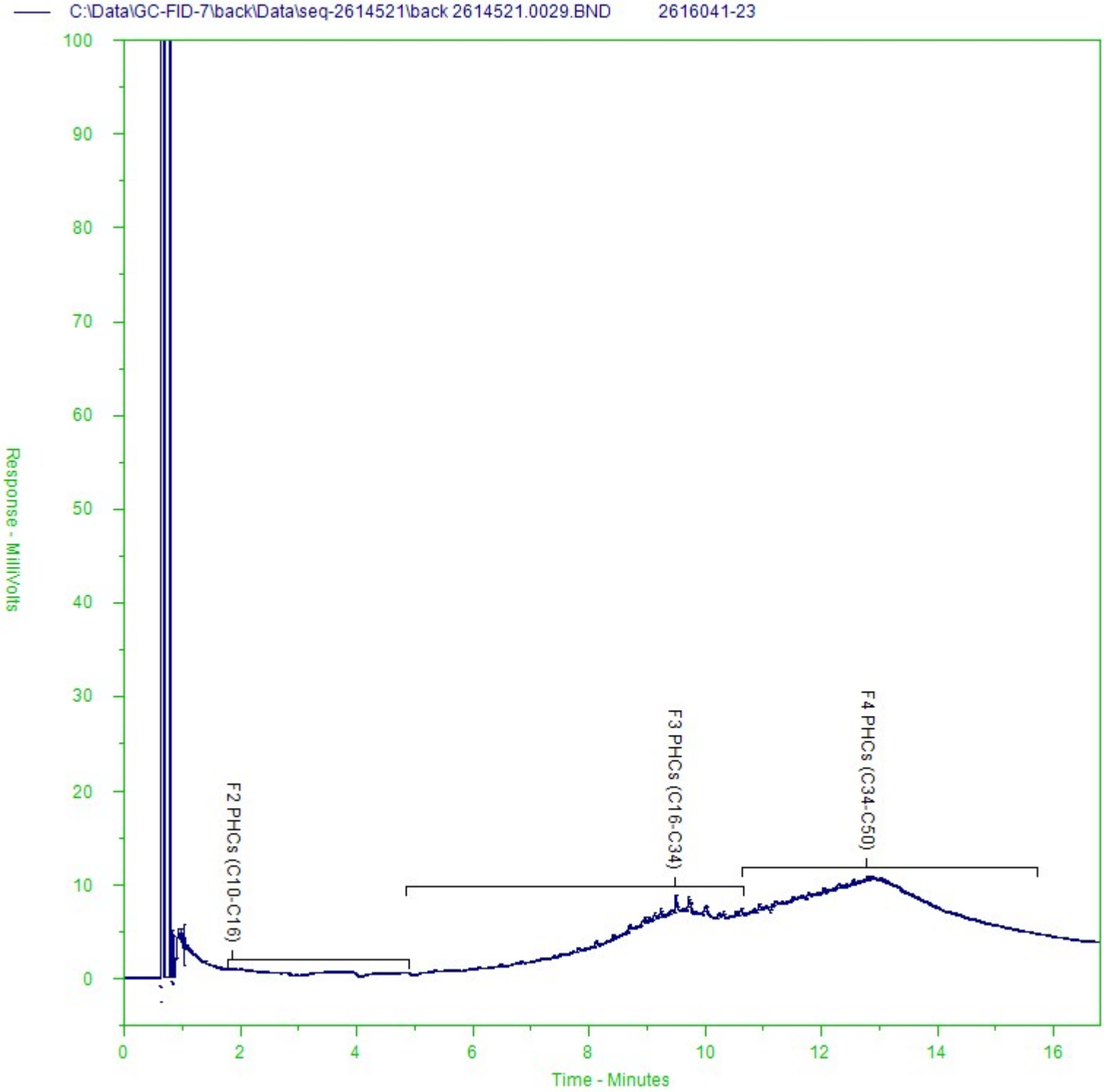
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 11: GC-FID Chromatogram for the sample *BH26-11 SA102*; Paracel ID: *2616041-23*



PARACEL LABORATORIES LTD.

Order #: 2616041

Sample Chromatograms

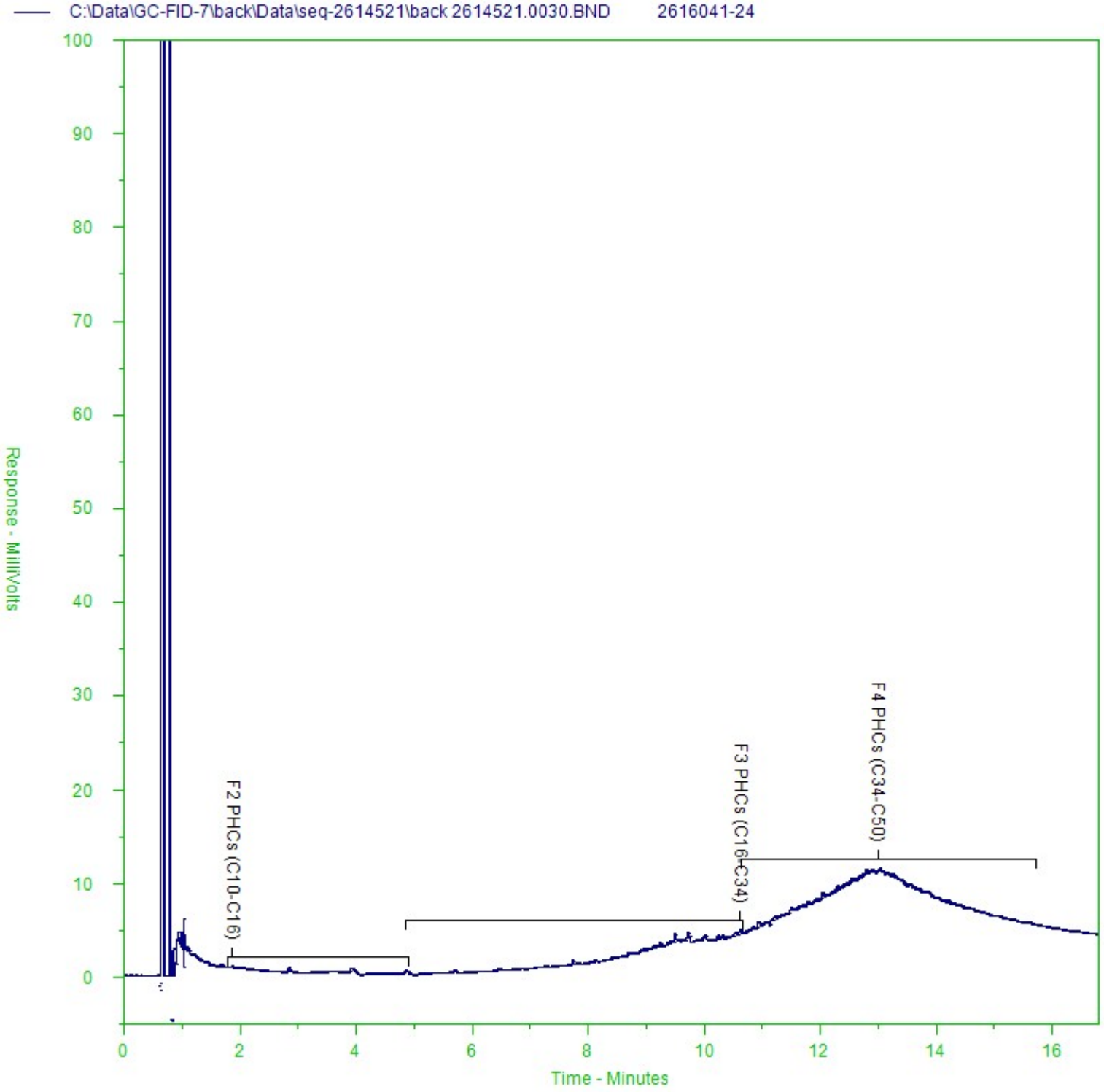
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 12: GC-FID Chromatogram for the sample *BH26-11 SA4*; Paracel ID: *2616041-24*



PARACEL LABORATORIES LTD.

TRUSTED.
RESPONSIVE.
RELIABLE.

300 - 2319 St. Laurent Blvd
Ottawa, ON, K1G 4J8
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive
Kanata, ON K2K 2A9
Attn: Dan Elliot

Client PO:
Project: 101260.004
Custody: 152159

Report Date: 17-Apr-2026
Order Date: 13-Apr-2026

Order #: 2616096

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

Paracel ID	Client ID
2616096-01	BH26-05 SA1
2616096-02	BH26-05 SA2B
2616096-03	BH26-06 SA1
2616096-04	BH26-06 SA101
2616096-05	BH26-06 SA2

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	Ottawa	15-Apr-26	15-Apr-26
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	Ottawa	14-Apr-26	16-Apr-26
Conductivity	MOE E3138 - probe @25 °C, water ext	Ottawa	15-Apr-26	15-Apr-26
Cyanide, free	MOE E3015 - Auto Colour, water extraction	Ottawa	17-Apr-26	17-Apr-26
Mercury by CVAA	EPA 7471B - CVAA, digestion	Ottawa	15-Apr-26	15-Apr-26
pH, soil	MOE E3137 - probe @25 °C, CaCl2 ext	Ottawa	15-Apr-26	15-Apr-26
PHC F1	CWS Tier 1 - P&T GC-FID	Ottawa	16-Apr-26	16-Apr-26
PHC F4G (gravimetric)	CWS Tier 1 - Extraction Gravimetric	Ottawa	15-Apr-26	16-Apr-26
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	Ottawa	14-Apr-26	14-Apr-26
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	Ottawa	15-Apr-26	15-Apr-26
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	Ottawa	15-Apr-26	16-Apr-26
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	Ottawa	16-Apr-26	16-Apr-26
SAR	Calculated	Ottawa	15-Apr-26	15-Apr-26
Solids, %	CWS Tier 1 - Gravimetric		14-Apr-26	15-Apr-26

Certificate of Analysis

Report Date: 17-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-05 SA1	BH26-05 SA2B	BH26-06 SA1	BH26-06 SA101	-	-
	Sample Date:	13-Apr-26 09:00	13-Apr-26 09:00	13-Apr-26 09:00	13-Apr-26 09:00		
	Sample ID:	2616096-01	2616096-02	2616096-03	2616096-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	93.0	68.8	91.8	89.7	-	-
General Inorganics							
SAR	0.01 N/A	10.0	6.38	9.40	7.26	-	-
Conductivity	5 uS/cm	1060	874	1160	1230	-	-
Cyanide, free	0.03 ug/g	<0.03	<0.03	<0.03	<0.03	-	-
pH	0.05 pH Units	8.05	7.04	7.76	7.82	-	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	1.0 ug/g	1.6	5.0	1.8	1.8	-	-
Barium	1.0 ug/g	39.3	221	71.3	78.6	-	-
Beryllium	0.5 ug/g	<0.5	0.5	<0.5	<0.5	-	-
Boron	5.0 ug/g	7.5	11.2	7.4	7.6	-	-
Boron, available	0.5 ug/g	<0.5	1.5	<0.5	<0.5	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	-	-
Chromium	5.0 ug/g	11.7	10.5	11.1	11.2	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	<0.2	<0.2	-	-
Cobalt	1.0 ug/g	4.5	8.6	4.0	3.8	-	-
Copper	5.0 ug/g	11.2	17.5	11.7	11.9	-	-
Lead	1.0 ug/g	8.6	19.9	27.8	34.9	-	-
Mercury	0.1 ug/g	<0.1	<0.1	<0.1	<0.1	-	-
Molybdenum	1.0 ug/g	<1.0	1.4	<1.0	<1.0	-	-
Nickel	5.0 ug/g	7.9	13.3	7.9	7.7	-	-
Selenium	1.0 ug/g	<1.0	1.3	<1.0	<1.0	-	-
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	-	-
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	-	-

	Client ID:	BH26-05 SA1	BH26-05 SA2B	BH26-06 SA1	BH26-06 SA101	-	-
	Sample Date:	13-Apr-26 09:00	13-Apr-26 09:00	13-Apr-26 09:00	13-Apr-26 09:00		
	Sample ID:	2616096-01	2616096-02	2616096-03	2616096-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	23.8	14.8	21.1	21.6	-	-
Zinc	20.0 ug/g	23.3	34.8	24.0	25.1	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Benzene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
Bromodichloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Bromoform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Bromomethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Chlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Chloroform	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Dibromochloromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Ethylbenzene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-

	Client ID:	BH26-05 SA1	BH26-05 SA2B	BH26-06 SA1	BH26-06 SA101	-	-
	Sample Date:	13-Apr-26 09:00	13-Apr-26 09:00	13-Apr-26 09:00	13-Apr-26 09:00		
	Sample ID:	2616096-01	2616096-02	2616096-03	2616096-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Hexane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	<0.50	<0.50	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Methylene Chloride	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Styrene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Toluene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Trichloroethylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Vinyl chloride	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	-	-
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
4-Bromofluorobenzene	Surrogate	105%	117%	105%	107%	-	-
Dibromofluoromethane	Surrogate	96.0%	109%	99.6%	98.5%	-	-
Toluene-d8	Surrogate	100%	110%	101%	100%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<40 [1]	<4	<80 [1]	97 [1]	-	-
F3 PHCs (C16-C34)	8 ug/g	84 [1]	16	271	353	-	-

	Client ID:	BH26-05 SA1	BH26-05 SA2B	BH26-06 SA1	BH26-06 SA101	-	-
	Sample Date:	13-Apr-26 09:00	13-Apr-26 09:00	13-Apr-26 09:00	13-Apr-26 09:00		
	Sample ID:	2616096-01	2616096-02	2616096-03	2616096-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Hydrocarbons							
F4 PHCs (C34-C50)	6 ug/g	456 [2]	13	1460 [2]	2180 [2]	-	-
F4G PHCs (gravimetric)	50 ug/g	559	-	1720	2920	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Chrysene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Fluoranthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Fluorene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	-	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	<0.04	-	-	-
Naphthalene	0.01 ug/g	<0.01	-	<0.01	-	-	-
Phenanthrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Pyrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
2-Fluorobiphenyl	Surrogate	69.4%	-	70.1%	-	-	-
Terphenyl-d14	Surrogate	92.3%	-	88.0%	-	-	-

	Client ID:	BH26-06 SA2				-	-
	Sample Date:	13-Apr-26 09:00					
	Sample ID:	2616096-05					
	Matrix:	Soil					
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	87.0	-	-	-	-	-
General Inorganics							
SAR	0.01 N/A	2.92	-	-	-	-	-
Conductivity	5 uS/cm	677	-	-	-	-	-
Cyanide, free	0.03 ug/g	<0.03	-	-	-	-	-
pH	0.05 pH Units	7.60	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	-	-	-	-
Arsenic	1.0 ug/g	2.0	-	-	-	-	-
Barium	1.0 ug/g	24.5	-	-	-	-	-
Beryllium	0.5 ug/g	<0.5	-	-	-	-	-
Boron	5.0 ug/g	6.1	-	-	-	-	-
Boron, available	0.5 ug/g	<0.5	-	-	-	-	-
Cadmium	0.5 ug/g	<0.5	-	-	-	-	-
Chromium	5.0 ug/g	5.6	-	-	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	-	-	-	-	-
Cobalt	1.0 ug/g	2.2	-	-	-	-	-
Copper	5.0 ug/g	7.0	-	-	-	-	-
Lead	1.0 ug/g	6.4	-	-	-	-	-
Mercury	0.1 ug/g	<0.1	-	-	-	-	-
Molybdenum	1.0 ug/g	<1.0	-	-	-	-	-
Nickel	5.0 ug/g	5.2	-	-	-	-	-
Selenium	1.0 ug/g	<1.0	-	-	-	-	-
Silver	0.3 ug/g	<0.3	-	-	-	-	-
Thallium	1.0 ug/g	<1.0	-	-	-	-	-
Uranium	1.0 ug/g	<1.0	-	-	-	-	-

	Client ID:	BH26-06 SA2				-	-
	Sample Date:	13-Apr-26 09:00					
	Sample ID:	2616096-05					
	Matrix:	Soil					
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	<10.0	-	-	-	-	-
Zinc	20.0 ug/g	<20.0	-	-	-	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	-	-	-
Benzene	0.02 ug/g	<0.02	-	-	-	-	-
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	-	-
Bromoform	0.05 ug/g	<0.05	-	-	-	-	-
Bromomethane	0.05 ug/g	<0.05	-	-	-	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	-	-
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-
Chloroform	0.05 ug/g	<0.05	-	-	-	-	-
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-	-

	Client ID:	BH26-06 SA2				-	-
	Sample Date:	13-Apr-26 09:00					
	Sample ID:	2616096-05					
	Matrix:	Soil					
	MDL/Units						
Volatiles							
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	-	-
Hexane	0.05 ug/g	<0.05	-	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	-	-
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	-	-
Styrene	0.05 ug/g	<0.05	-	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
Toluene	0.05 ug/g	<0.05	-	-	-	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	-
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	-	-
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-	-
4-Bromofluorobenzene	Surrogate	110%	-	-	-	-	-
Dibromofluoromethane	Surrogate	99.6%	-	-	-	-	-
Toluene-d8	Surrogate	102%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	-	-
F3 PHCs (C16-C34)	8 ug/g	28	-	-	-	-	-

	Client ID:	BH26-06 SA2				-	-
	Sample Date:	13-Apr-26 09:00					
	Sample ID:	2616096-05					
	Matrix:	Soil					
	MDL/Units						
Hydrocarbons							
F4 PHCs (C34-C50)	6 ug/g	40	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Cyanide, free	ND	0.03	ug/g					
Hydrocarbons								
F4G PHCs (gravimetric)	ND	50	ug/g					
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Boron, available	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Mercury	ND	0.1	ug/g					
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*0.763*		*%*	*57.2*	*50-140*			
Surrogate: Terphenyl-d14	*1.10*		*%*	*82.6*	*50-140*			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	*8.28*		*%*	*103*	*50-140*			

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*7.26*		*%*	*90.7*	*50-140*			
Surrogate: Toluene-d8	*7.64*		*%*	*95.5*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	4.07	0.01	N/A	3.70			9.5	30	
Conductivity	634	5	uS/cm	637			0.5	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.38	0.05	pH Units	7.37			0.1	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	19	8	ug/g	16			13.3	30	
F4 PHCs (C34-C50)	56	6	ug/g	30			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	4.4	1.0	ug/g	4.8			9.1	30	
Barium	70.2	1.0	ug/g	71.5			1.9	30	
Beryllium	0.7	0.5	ug/g	0.8			4.6	30	
Boron, available	0.67	0.5	ug/g	0.68			2.6	35	
Boron	7.5	5.0	ug/g	8.8			16.6	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	0.7	0.2	ug/g	0.7			8.7	35	
Chromium	22.2	5.0	ug/g	23.2			4.1	30	
Cobalt	5.9	1.0	ug/g	6.0			1.5	30	
Copper	13.7	5.0	ug/g	14.0			2.2	30	
Lead	10.0	1.0	ug/g	10.2			1.6	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	1.2	1.0	ug/g	1.3			5.0	30	
Nickel	18.3	5.0	ug/g	18.9			3.4	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	32.0	10.0	ug/g	33.9			5.6	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Zinc	58.1	20.0	ug/g	60.6			4.2	30	
Physical Characteristics									
% Solids	70.1	0.1	% by Wt.	71.3			1.8	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	*0.930*		*%*		*67.2*	*50-140*			
Surrogate: Terphenyl-d14	*1.47*		*%*		*106*	*50-140*			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

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

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	*9.29*		*%*		*106*	*50-140*			
Surrogate: Dibromofluoromethane	*8.40*		*%*		*95.9*	*50-140*			
Surrogate: Toluene-d8	*8.72*		*%*		*99.5*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.330	0.03	ug/g	ND	106	50-150			
Hydrocarbons									
F1 PHCs (C6-C10)	170	7	ug/g	ND	85.2	85-115			
F2 PHCs (C10-C16)	91	4	ug/g	ND	104	60-140			
F3 PHCs (C16-C34)	258	8	ug/g	16	113	60-140			
F4 PHCs (C34-C50)	215	6	ug/g	30	136	60-140			
F4G PHCs (gravimetric)	880	50	ug/g	ND	88.0	80-120			
Metals									
Antimony	43.6	1.0	ug/g	ND	87.2	70-130			
Arsenic	44.5	1.0	ug/g	1.0	86.9	70-130			
Barium	65.4	1.0	ug/g	15.9	98.9	70-130			
Beryllium	48.0	0.5	ug/g	ND	95.7	70-130			
Boron, available	4.35	0.5	ug/g	0.68	73.4	60-140			
Boron	48.2	5.0	ug/g	ND	93.5	70-130			
Cadmium	49.4	0.5	ug/g	ND	98.8	70-130			
Chromium (VI)	5.4	0.2	ug/g	0.7	78.0	48-112			
Chromium	52.6	5.0	ug/g	5.7	93.9	70-130			
Cobalt	48.1	1.0	ug/g	1.9	92.5	70-130			
Copper	48.0	5.0	ug/g	ND	88.7	70-130			
Lead	43.9	1.0	ug/g	1.7	84.5	70-130			
Mercury	1.55	0.1	ug/g	ND	103	70-130			
Molybdenum	44.8	1.0	ug/g	ND	89.4	70-130			
Nickel	48.6	5.0	ug/g	ND	90.7	70-130			
Selenium	45.8	1.0	ug/g	ND	91.3	70-130			
Silver	48.1	0.3	ug/g	ND	96.2	70-130			
Thallium	49.4	1.0	ug/g	ND	98.7	70-130			
Uranium	36.6	1.0	ug/g	ND	72.9	70-130			
Vanadium	56.7	10.0	ug/g	ND	94.0	70-130			
Zinc	52.6	20.0	ug/g	ND	85.4	70-130			
Semi-Volatiles									

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Acenaphthene	0.106	0.02	ug/g	ND	61.6	50-140			
Acenaphthylene	0.096	0.02	ug/g	ND	55.6	50-140			
Anthracene	0.107	0.02	ug/g	ND	62.0	50-140			
Benzo [a] anthracene	0.113	0.02	ug/g	ND	65.5	50-140			
Benzo [a] pyrene	0.135	0.02	ug/g	ND	78.0	50-140			
Benzo [b] fluoranthene	0.112	0.02	ug/g	ND	64.9	50-140			
Benzo [g,h,i] perylene	0.107	0.02	ug/g	ND	61.6	50-140			
Benzo [k] fluoranthene	0.110	0.02	ug/g	ND	63.5	50-140			
Chrysene	0.122	0.02	ug/g	ND	70.4	50-140			
Dibenzo [a,h] anthracene	0.101	0.02	ug/g	ND	58.3	50-140			
Fluoranthene	0.110	0.02	ug/g	ND	63.6	50-140			
Fluorene	0.102	0.02	ug/g	ND	59.2	50-140			
Indeno [1,2,3-cd] pyrene	0.095	0.02	ug/g	ND	54.8	50-140			
1-Methylnaphthalene	0.106	0.02	ug/g	ND	61.1	50-140			
2-Methylnaphthalene	0.108	0.02	ug/g	ND	62.5	50-140			
Naphthalene	0.089	0.01	ug/g	ND	51.5	50-140			
Phenanthrene	0.125	0.02	ug/g	ND	72.3	50-140			
Pyrene	0.116	0.02	ug/g	ND	67.2	50-140			
Surrogate: 2-Fluorobiphenyl	*0.937*		*%*		*67.7*	*50-140*			
Surrogate: Terphenyl-d14	*1.24*		*%*		*89.6*	*50-140*			
Volatiles									
Acetone	10.9	0.50	ug/g	ND	109	50-140			
Benzene	3.88	0.02	ug/g	ND	96.9	60-130			
Bromodichloromethane	4.17	0.05	ug/g	ND	104	60-130			
Bromoform	3.71	0.05	ug/g	ND	92.8	60-130			
Bromomethane	4.54	0.05	ug/g	ND	113	50-140			
Carbon Tetrachloride	4.00	0.05	ug/g	ND	99.9	60-130			
Chlorobenzene	4.29	0.05	ug/g	ND	107	60-130			
Chloroform	4.34	0.05	ug/g	ND	109	60-130			
Dibromochloromethane	3.33	0.05	ug/g	ND	83.3	60-130			
Dichlorodifluoromethane	3.64	0.05	ug/g	ND	91.1	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	4.00	0.05	ug/g	ND	99.9	60-130			
1,3-Dichlorobenzene	4.05	0.05	ug/g	ND	101	60-130			
1,4-Dichlorobenzene	3.95	0.05	ug/g	ND	98.8	60-130			
1,1-Dichloroethane	4.14	0.05	ug/g	ND	104	60-130			
1,2-Dichloroethane	4.52	0.05	ug/g	ND	113	60-130			
1,1-Dichloroethylene	4.47	0.05	ug/g	ND	112	60-130			
cis-1,2-Dichloroethylene	4.15	0.05	ug/g	ND	104	60-130			
trans-1,2-Dichloroethylene	4.08	0.05	ug/g	ND	102	60-130			
1,2-Dichloropropane	3.75	0.05	ug/g	ND	93.7	60-130			
cis-1,3-Dichloropropylene	3.67	0.05	ug/g	ND	91.7	60-130			
trans-1,3-Dichloropropylene	4.00	0.05	ug/g	ND	100	60-130			
Ethylbenzene	4.19	0.05	ug/g	ND	105	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	3.73	0.05	ug/g	ND	93.3	60-130			
Hexane	3.68	0.05	ug/g	ND	91.9	60-130			
Methyl Ethyl Ketone (2-Butanone)	8.22	0.50	ug/g	ND	82.2	50-140			
Methyl Isobutyl Ketone	8.06	0.50	ug/g	ND	80.6	50-140			
Methyl tert-butyl ether	9.82	0.05	ug/g	ND	98.2	50-140			
Methylene Chloride	4.36	0.05	ug/g	ND	109	60-130			
Styrene	4.46	0.05	ug/g	ND	112	60-130			
1,1,1,2-Tetrachloroethane	3.82	0.05	ug/g	ND	95.6	60-130			
1,1,2,2-Tetrachloroethane	3.76	0.05	ug/g	ND	94.1	60-130			
Tetrachloroethylene	4.11	0.05	ug/g	ND	103	60-130			
Toluene	4.09	0.05	ug/g	ND	102	60-130			
1,1,1-Trichloroethane	4.21	0.05	ug/g	ND	105	60-130			
1,1,2-Trichloroethane	4.00	0.05	ug/g	ND	100	60-130			
Trichloroethylene	4.19	0.05	ug/g	ND	105	60-130			
Trichlorofluoromethane	5.19	0.05	ug/g	ND	130	50-140			
Vinyl chloride	5.11	0.02	ug/g	ND	128	50-140			
m,p-Xylenes	8.29	0.05	ug/g	ND	104	60-130			
o-Xylene	4.15	0.05	ug/g	ND	104	60-130			
Surrogate: 4-Bromofluorobenzene	*8.08*		*%*		*101*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*7.17*		*%*		*89.6*	*50-140*			
Surrogate: Toluene-d8	*7.53*		*%*		*94.2*	*50-140*			

Qualifier Notes:

Sample Qualifiers :

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

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

Applies to Samples: BH26-05 SA1, BH26-06 SA1, BH26-06 SA101

QC Qualifiers:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

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

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

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

CCME PHC additional information:

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

- F1 range corrected for BTEX.

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

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

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

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

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

PARACEL LABORATORIES LTD

Paracel ID: 2616096

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2616096	№ 152159

Client Name: ~~[illegible]~~ GEMTEC	Project Ref: 101260.004	Page 1 of 1
Contact Name: Dan Elliot	Quote #:	Turnaround Time
Address:	PO #:	☐ 1 day ☐ 3 day
	E-mail: dan.elliot@gemtec.ca jeffrey.gauthier@gemtec.ca	☐ 2 day ~~☑~~ Regular
Telephone:		Date Required:

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

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)				
		Required Analysis																
1	BH26-05 SA1	S		3		Apr 13/26												
2	BH26-05 SA2B			2														
3	BH26-06 SA1			2														
4	BH26-06 SA101			2														
5	BH26-06 SA2			2														
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: Swift

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com

Relinquished By (Sign):	Received at Depot:	Received at Lab: EG	Verified By: EG
Relinquished By (Print): Jeffrey Gauthier	Date/Time:	Date/Time: Apr 13/26 15:50	Date/Time: Apr 14/26 8:49
Date/Time: Apr 13/26	Temperature: °C	Temperature: 14.1	pH Verified: ☐ By:

PARACEL LABORATORIES LTD. | TRUSTED. RESPONSIVE. RELIABLE.

Sample Chromatograms

GEMTEC Consulting Engineers and Scientists Limited

Report Date: 6-May-26
Order Date: 13-Apr-26

Project Description: **101260.004**

Order #: 2616096

GC-FID chromatograms for the samples listed below are included in the following pages. These chromatograms are a supplement to the Certificate of Analysis from the same work order

Paracel ID:	Client ID:
2616096-01	BH26-05 SA1
2616096-03	BH26-06 SA1
2616096-04	BH26-06 SA101

PARACEL LABORATORIES LTD.

Order #: 2616096

Sample Chromatograms

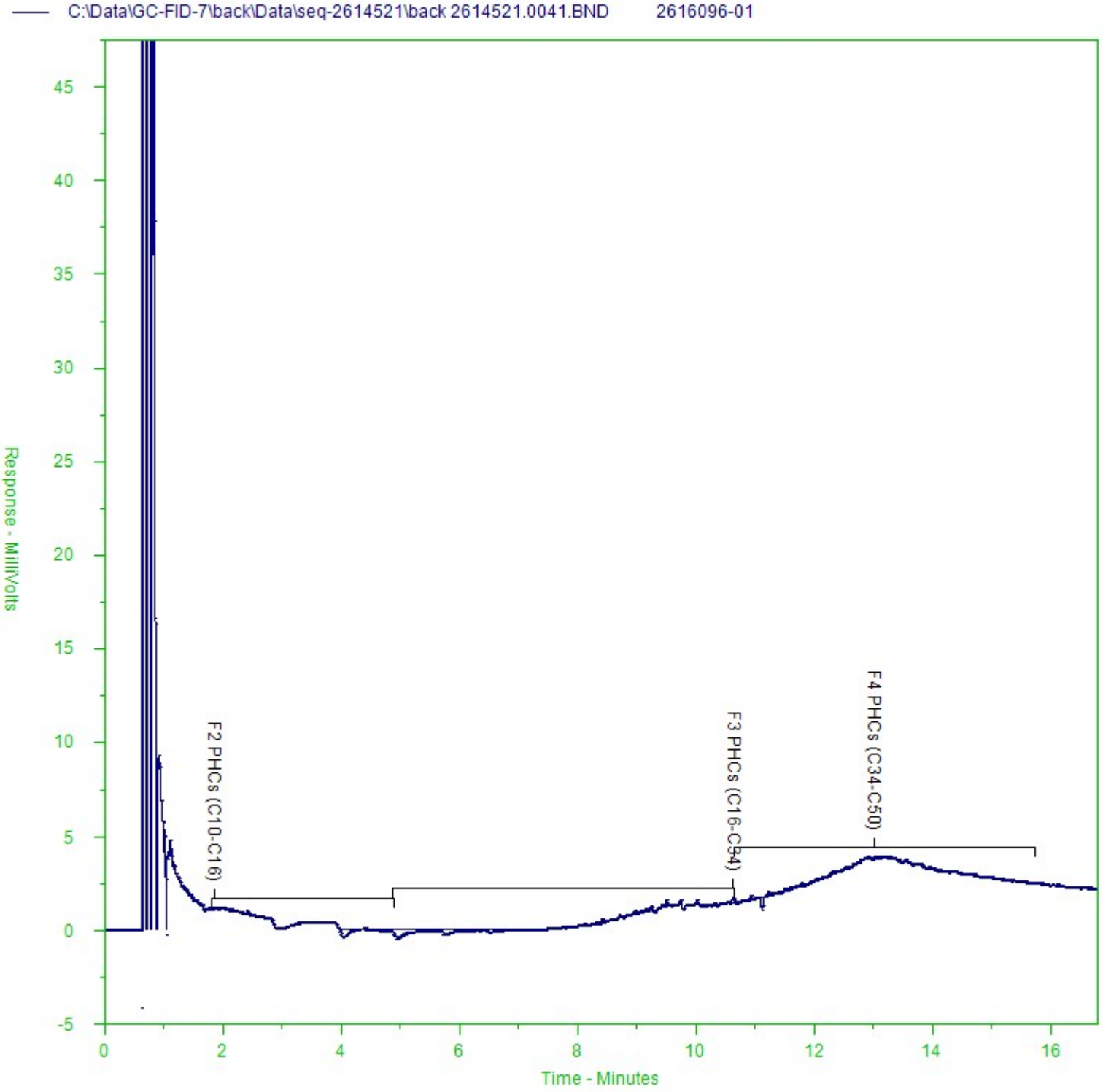
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 1: GC-FID Chromatogram for the sample *BH26-05 SA1*; Paracel ID: *2616096-01*



PARACEL LABORATORIES LTD.

Order #: 2616096

Sample Chromatograms

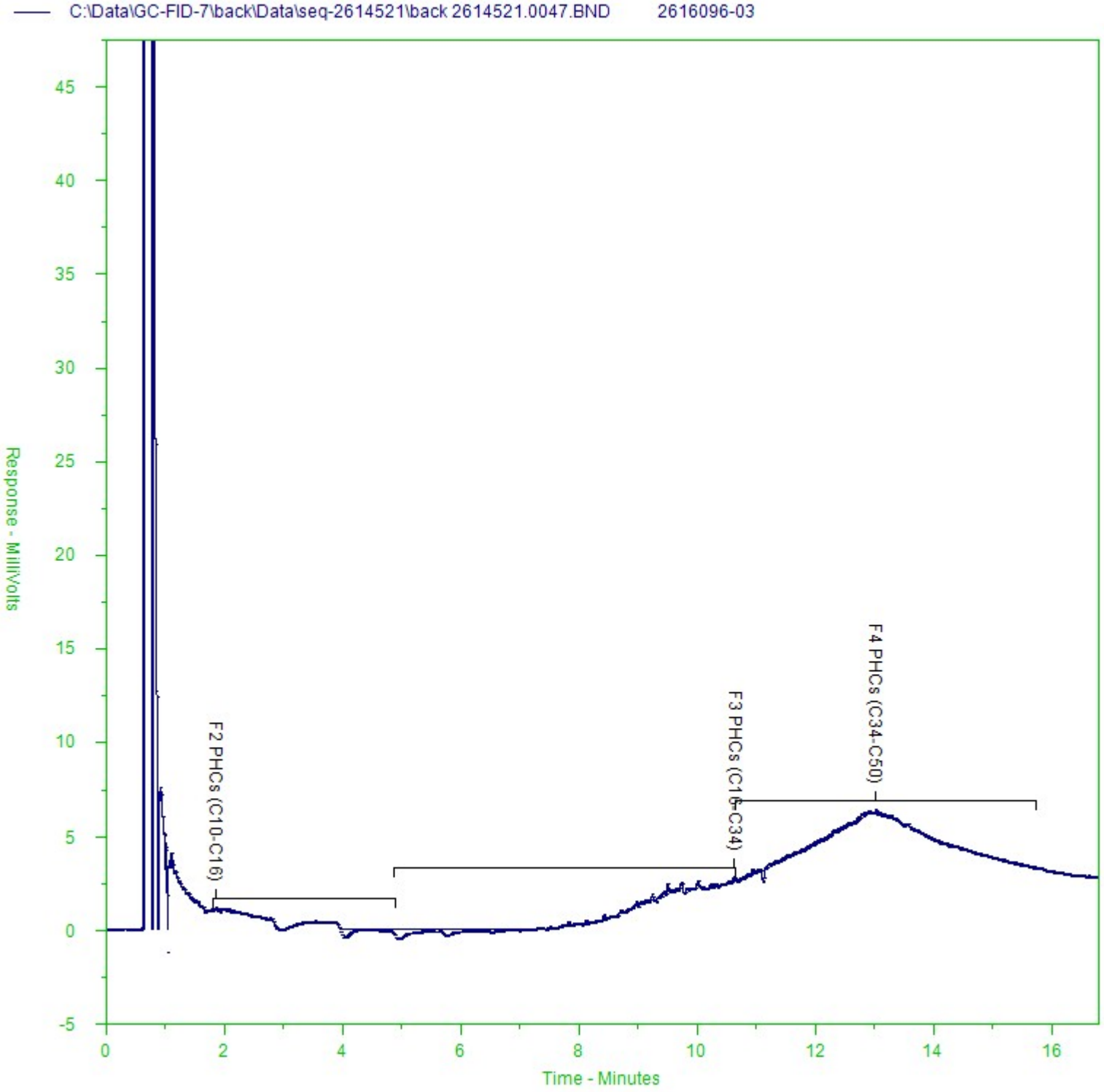
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 2: GC-FID Chromatogram for the sample *BH26-06 SA1*; Paracel ID: *2616096-03*



PARACEL LABORATORIES LTD.

Order #: 2616096

Sample Chromatograms

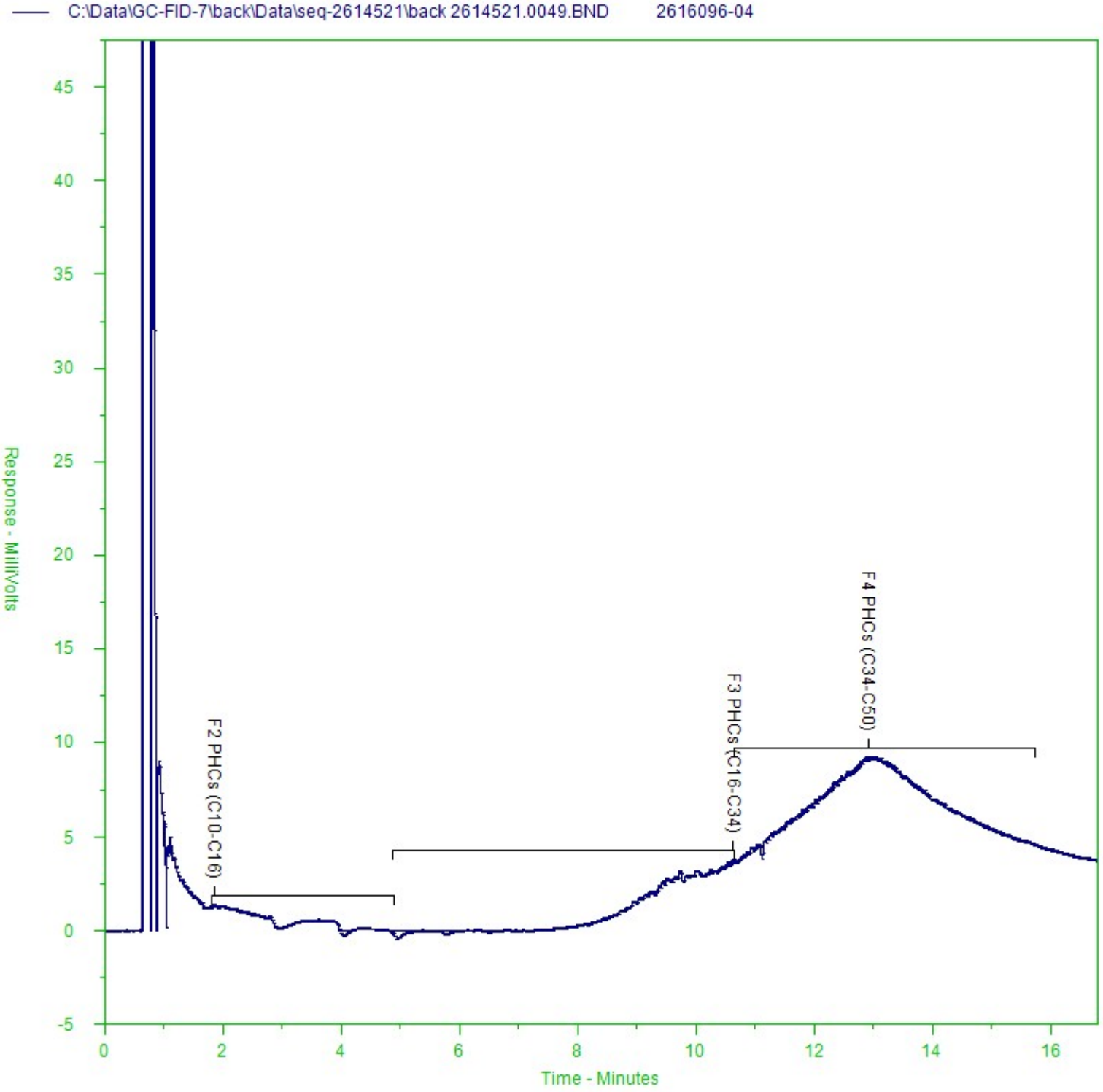
Client: **GEMTEC Consulting Engineers and Scientists Limited**

Project Description: **101260.004**

Report Date: 6-May-26

Order Date: 13-Apr-26

Figure 3: GC-FID Chromatogram for the sample *BH26-06 SA101*; Paracel ID: *2616096-04*



PARACEL LABORATORIES LTD.
TRUSTED. RESPONSIVE. RELIABLE.

300 - 2319 St. Laurent Blvd
Ottawa, ON, K1G 4J8
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive
Kanata, ON K2K 2A9
Attn: Dan Elliot

Client PO:
Project: 101260.004
Custody:

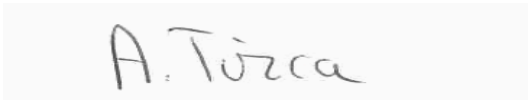
Report Date: 22-Apr-2026
Order Date: 16-Apr-2026

Order #: 2616424

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

Paracel ID	Client ID
2616424-01	TCLP

Approved By:



Adriana Tirca, B.Eng (Chem)
Supervisor

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
Flashpoint	ASTM D93 - Pensky-Martens Closed Cup	Ottawa	17-Apr-26	17-Apr-26
Metals, ICP-MS	TCLP EPA 6020 - Digestion - ICP-MS	Ottawa	20-Apr-26	20-Apr-26
REG 558 - Cyanide	TCLP MOE E3015- Auto Colour	Ottawa	21-Apr-26	21-Apr-26
REG 558 - Fluoride	TCLP EPA 340.2 - ISE	Ottawa	20-Apr-26	20-Apr-26
REG 558 - Mercury by CVAA	TCLP EPA 7470A, CVAA	Ottawa	20-Apr-26	20-Apr-26
REG 558 - NO3/NO2	TCLP EPA 300.1 - IC	Ottawa	20-Apr-26	20-Apr-26
REG 558 - PAHs	TCLP EPA 625 - GC-MS	Ottawa	20-Apr-26	20-Apr-26
REG 558 - VOCs	TCLP ZHE EPA 624 - P&T GC-MS	Ottawa	20-Apr-26	21-Apr-26
Solids, %	CWS Tier 1 - Gravimetric		17-Apr-26	20-Apr-26

	Client ID:	TCLP	-	-	-	-	-
	Sample Date:	13-Apr-26 09:00	-	-	-		
	Sample ID:	2616424-01	-	-	-		
	Matrix:	Soil	-	-	-		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	91.2	-	-	-	-	-
Flashpoint	°C	>70	-	-	-	-	-
EPA 1311 - TCLP Leachate Inorganics							
Fluoride	0.05 mg/L	0.17	-	-	-	-	-
Nitrate as N	1 mg/L	<1	-	-	-	-	-
Nitrite as N	1 mg/L	<1	-	-	-	-	-
Nitrate + Nitrite as N	2 mg/L	<2	-	-	-	-	-
Cyanide, free	0.02 mg/L	<0.02	-	-	-	-	-
EPA 1311 - TCLP Leachate Metals							
Arsenic	0.05 mg/L	<0.05	-	-	-	-	-
Barium	0.05 mg/L	0.44	-	-	-	-	-
Boron	0.10 mg/L	<0.10	-	-	-	-	-
Cadmium	0.01 mg/L	<0.01	-	-	-	-	-
Chromium	0.05 mg/L	<0.05	-	-	-	-	-
Lead	0.05 mg/L	<0.05	-	-	-	-	-
Mercury	0.005 mg/L	<0.005	-	-	-	-	-
Selenium	0.05 mg/L	<0.05	-	-	-	-	-
Silver	0.05 mg/L	<0.05	-	-	-	-	-
Uranium	0.05 mg/L	<0.05	-	-	-	-	-
EPA 1311 - TCLP Leachate Volatiles							
Benzene	0.005 mg/L	<0.005	-	-	-	-	-
Carbon Tetrachloride	0.005 mg/L	<0.005	-	-	-	-	-
Chlorobenzene	0.004 mg/L	<0.004	-	-	-	-	-
Chloroform	0.006 mg/L	<0.006	-	-	-	-	-
1,2-Dichlorobenzene	0.004 mg/L	<0.004	-	-	-	-	-
1,4-Dichlorobenzene	0.004 mg/L	<0.004	-	-	-	-	-

	Client ID:	TCLP	-	-	-		
	Sample Date:	13-Apr-26 09:00	-	-	-	-	-
	Sample ID:	2616424-01	-	-	-		
	Matrix:	Soil	-	-	-		
	MDL/Units						
EPA 1311 - TCLP Leachate Volatiles							
1,2-Dichloroethane	0.005 mg/L	<0.005	-	-	-	-	-
1,1-Dichloroethylene	0.006 mg/L	<0.006	-	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.30 mg/L	<0.30	-	-	-	-	-
Methylene Chloride	0.04 mg/L	<0.04	-	-	-	-	-
Tetrachloroethylene	0.005 mg/L	<0.005	-	-	-	-	-
Trichloroethylene	0.004 mg/L	<0.004	-	-	-	-	-
Vinyl chloride	0.005 mg/L	<0.005	-	-	-	-	-
4-Bromofluorobenzene	Surrogate	110%	-	-	-	-	-
Dibromofluoromethane	Surrogate	99.3%	-	-	-	-	-
Toluene-d8	Surrogate	100%	-	-	-	-	-
EPA 1311 - TCLP Leachate Organics							
Benzo [a] pyrene	0.0001 mg/L	<0.0001	-	-	-	-	-
Terphenyl-d14	Surrogate	84.4%	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics								
Cyanide, free	ND	0.02	mg/L					
Fluoride	ND	0.05	mg/L					
Nitrate as N	ND	1	mg/L					
Nitrite as N	ND	1	mg/L					
Nitrate + Nitrite as N	ND	2	mg/L					
EPA 1311 - TCLP Leachate Metals								
Arsenic	ND	0.05	mg/L					
Barium	ND	0.05	mg/L					
Boron	ND	0.10	mg/L					
Cadmium	ND	0.01	mg/L					
Chromium	ND	0.05	mg/L					
Lead	ND	0.05	mg/L					
Mercury	ND	0.005	mg/L					
Selenium	ND	0.05	mg/L					
Silver	ND	0.05	mg/L					
Uranium	ND	0.05	mg/L					
EPA 1311 - TCLP Leachate Organics								
Benzo [a] pyrene	ND	0.0001	mg/L					
Surrogate: Terphenyl-d14	*0.19*		*%*	*96.4*	*37-156*			
EPA 1311 - TCLP Leachate Volatiles								
Benzene	ND	0.005	mg/L					
Carbon Tetrachloride	ND	0.005	mg/L					
Chlorobenzene	ND	0.004	mg/L					
Chloroform	ND	0.006	mg/L					
1,2-Dichlorobenzene	ND	0.004	mg/L					
1,4-Dichlorobenzene	ND	0.004	mg/L					
1,2-Dichloroethane	ND	0.005	mg/L					
1,1-Dichloroethylene	ND	0.006	mg/L					
Methyl Ethyl Ketone (2-Butanone)	ND	0.30	mg/L					
Methylene Chloride	ND	0.04	mg/L					
Tetrachloroethylene	ND	0.005	mg/L					
Trichloroethylene	ND	0.004	mg/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.005	mg/L					
Surrogate: 4-Bromofluorobenzene	*0.0935*		*%*	*117*	*83-134*			
Surrogate: Dibromofluoromethane	*0.0648*		*%*	*81.0*	*78-124*			
Surrogate: Toluene-d8	*0.0768*		*%*	*95.9*	*76-118*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics									
Fluoride	0.41	0.05	mg/L	0.41			0.7	15	
Nitrate as N	ND	1	mg/L	ND			NC	20	
Nitrite as N	ND	1	mg/L	ND			NC	20	
Cyanide, free	ND	0.02	mg/L	ND			NC	20	
EPA 1311 - TCLP Leachate Metals									
Arsenic	ND	0.05	mg/L	ND			NC	29	
Barium	0.430	0.05	mg/L	0.436			1.5	34	
Boron	ND	0.10	mg/L	ND			NC	33	
Cadmium	ND	0.01	mg/L	ND			NC	33	
Chromium	ND	0.05	mg/L	ND			NC	32	
Lead	ND	0.05	mg/L	ND			NC	32	
Mercury	ND	0.005	mg/L	ND			NC	30	
Selenium	ND	0.05	mg/L	ND			NC	28	
Silver	ND	0.05	mg/L	ND			NC	28	
Uranium	ND	0.05	mg/L	ND			NC	27	
EPA 1311 - TCLP Leachate Organics									
Benzo [a] pyrene	ND	0.0001	mg/L	ND			NC	50	
Surrogate: Terphenyl-d14	*0.17*		*%*		*84.2*	*37-156*			
EPA 1311 - TCLP Leachate Volatiles									
Benzene	ND	0.005	mg/L	ND			NC	25	
Carbon Tetrachloride	ND	0.005	mg/L	ND			NC	25	
Chlorobenzene	ND	0.004	mg/L	ND			NC	25	
Chloroform	ND	0.006	mg/L	ND			NC	25	
1,2-Dichlorobenzene	ND	0.004	mg/L	ND			NC	25	
1,4-Dichlorobenzene	ND	0.004	mg/L	ND			NC	25	
1,2-Dichloroethane	ND	0.005	mg/L	ND			NC	25	
1,1-Dichloroethylene	ND	0.006	mg/L	ND			NC	25	
Methyl Ethyl Ketone (2-Butanone)	ND	0.30	mg/L	ND			NC	25	
Methylene Chloride	ND	0.04	mg/L	ND			NC	25	
Tetrachloroethylene	ND	0.005	mg/L	ND			NC	25	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Trichloroethylene	ND	0.004	mg/L	ND			NC	25	
Vinyl chloride	ND	0.005	mg/L	ND			NC	25	
Surrogate: 4-Bromofluorobenzene	*0.0898*		*%*		*112*	*83-134*			
Surrogate: Dibromofluoromethane	*0.0812*		*%*		*101*	*78-124*			
Surrogate: Toluene-d8	*0.0806*		*%*		*101*	*76-118*			
Physical Characteristics									
% Solids	84.2	0.1	% by Wt.	87.7			4.1	25	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics									
Fluoride	0.91	0.05	mg/L	0.41	99.8	77-129			
Nitrate as N	10	1	mg/L	ND	104	81-112			
Nitrite as N	10	1	mg/L	ND	98.2	76-107			
Cyanide, free	0.020	0.02	mg/L	ND	20.5	40-115			QM-07
EPA 1311 - TCLP Leachate Metals									
Arsenic	43.0	0.05	mg/L	0.355	85.4	83-119			
Barium	86.0	0.05	mg/L	43.6	84.7	80-120			
Boron	49.5	0.10	mg/L	5.36	88.4	71-128			
Cadmium	40.9	0.01	mg/L	0.319	81.2	78-119			
Chromium	44.9	0.05	mg/L	0.099	89.6	80-124			
Lead	38.1	0.05	mg/L	0.238	75.6	77-126			QM-07
Mercury	0.0294	0.005	mg/L	ND	97.8	70-130			
Selenium	43.5	0.05	mg/L	0.426	86.1	75-125			
Silver	38.8	0.05	mg/L	ND	77.7	70-128			
Uranium	43.7	0.05	mg/L	0.581	86.2	70-131			
EPA 1311 - TCLP Leachate Organics									
Benzo [a] pyrene	0.0532	0.0001	mg/L	ND	106	39-123			
Surrogate: Terphenyl-d14	*0.16*		*%*		*81.5*	*37-156*			
EPA 1311 - TCLP Leachate Volatiles									
Benzene	0.047	0.005	mg/L	ND	118	55-141			
Carbon Tetrachloride	0.034	0.005	mg/L	ND	84.6	49-149			
Chlorobenzene	0.046	0.004	mg/L	ND	116	64-137			
Chloroform	0.043	0.006	mg/L	ND	108	58-138			
1,2-Dichlorobenzene	0.043	0.004	mg/L	ND	108	60-150			
1,4-Dichlorobenzene	0.044	0.004	mg/L	ND	109	63-132			
1,2-Dichloroethane	0.039	0.005	mg/L	ND	96.3	50-140			
1,1-Dichloroethylene	0.047	0.006	mg/L	ND	119	43-153			
Methyl Ethyl Ketone (2-Butanone)	0.099	0.30	mg/L	ND	98.9	26-153			
Methylene Chloride	0.048	0.04	mg/L	ND	121	58-149			
Tetrachloroethylene	0.051	0.005	mg/L	ND	127	51-145			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Trichloroethylene	0.036	0.004	mg/L	ND	90.5	52-135			
Vinyl chloride	0.034	0.005	mg/L	ND	85.4	31-159			
Surrogate: 4-Bromofluorobenzene	*0.0847*		*%*		*106*	*83-134*			
Surrogate: Dibromofluoromethane	*0.0700*		*%*		*87.5*	*78-124*			
Surrogate: Toluene-d8	*0.0837*		*%*		*105*	*76-118*			

Qualifier Notes:

Sample Qualifiers :

QC Qualifiers:

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

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

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

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

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

PARACEL LABORATORIES LTD

Paracel ID: 2616424

Paracel Order Number (Lab Use Only): 2616424

Chain Of Custody (Lab Use Only)

Page 1 of 1

Client Name: GEMTEC	Project Ref: 101260.004
Contact Name: Dan Elliot	Quote #:
Address: 32 Steacie Drive, Kanata, ON K2K 2A9	PO #:
Telephone: 6138574936	E-mail: dan.elliot@gemtec.ca, jeffrey.gauthier@gemtec.ca

Turnaround Time

☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular

Date Required:

☐ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☐ Med/Fine

☐ Table 2 ☐ Res/Park ☐ Coarse

☐ Table 3 ☐ Ind/Comm

☐ Table___

For RSC: ☐ Yes ☒ No

Other Regulation

☒ REG 558 ☐ PWQO

☐ CCME ☐ MISA

☐ SU - Sani ☐ SU - Storm

Mun:

☐ Other:

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	TCLP - M&I	TCLP - VOCs	TCLP - FP	TCLP - B[a]P
1	TCLP	S		2		April 13/26		X	X	X	X
2											
3											
4											
5											
6											
7											
8											
9											
10											

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot: CD 1420	Received at Lab: LTJ	Verified By:
Relinquished By (Print): Jeffrey Gauthier	Date/Time: April 16/26	Date/Time: 16/04/26 16:11	Date/Time: Apr 16/26 16:44
Date/Time: April 16/26 2:20	Temperature: 12 °C	Temperature: 9.0°C	pH Verified: ☐ By:

PARACEL LABORATORIES LTD.

TRUSTED.
RESPONSIVE.
RELIABLE.

300 - 2319 St. Laurent Blvd
Ottawa, ON, K1G 4J8
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive
Kanata, ON K2K 2A9
Attn: Dan Elliot

Client PO:
Project: 101260.004
Custody:

Report Date: 23-Apr-2026
Order Date: 13-Apr-2026

Order #: 2617118

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

Paracel ID	Client ID
2617118-01	BH26-01 SA2 (Lab ID: 2616041-02)
2617118-02	BH26-03 SA1B (Lab ID: 2616041-06)
2617118-03	BH26-03 SA2 (Lab ID: 2616041-07)
2617118-04	BH26-04 SA3 (Lab ID: 2616041-10)
2617118-05	BH26-07 SA2 (Lab ID: 2616041-11)
2617118-06	BH26-07 SA4 (Lab ID: 2616041-12)

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
REG 406: Metals, leachate	mSPLP EPA 6020 - Digestion - ICP-MS	Ottawa	22-Apr-26	23-Apr-26
REG 406: VOC, leachate	mSPLP EPA 624 - P&T GC-MS	Ottawa	21-Apr-26	21-Apr-26
Solids, %	CWS Tier 1 - Gravimetric		21-Apr-26	22-Apr-26

	Client ID:	BH26-01 SA2 (Lab ID: 2616041-02)	BH26-03 SA1B (Lab ID: 2616041-06)	BH26-03 SA2 (Lab ID: 2616041-07)	BH26-04 SA3 (Lab ID: 2616041-10)	-	-
	Sample Date:	07-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2617118-01	2617118-02	2617118-03	2617118-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	81.2	87.3	75.5	89.3	-	-
mSPLP Leachate Metals							
Antimony	0.5 ug/L	0.7	0.7	<0.5	<0.5	-	-
Arsenic	1.0 ug/L	1.2	4.2	<1.0	<1.0	-	-
Barium	1.0 ug/L	28.4	53.1	30.5	2.7	-	-
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Boron	10.0 ug/L	18.4	<10.0	29.1	12.4	-	-
Cadmium	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	-	-
Chromium	1.0 ug/L	1.3	2.7	1.0	<1.0	-	-
Cobalt	0.5 ug/L	<0.5	0.8	<0.5	<0.5	-	-
Copper	0.5 ug/L	3.3	8.7	3.6	0.9	-	-
Lead	0.2 ug/L	15.0	43.5	4.6	<0.2	-	-
Molybdenum	0.5 ug/L	4.1	1.3	3.1	1.6	-	-
Nickel	1.0 ug/L	<1.0	2.8	<1.0	<1.0	-	-
Selenium	1.0 ug/L	<1.0	<1.0	<1.0	1.3	-	-
Silver	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	-	-
Thallium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Uranium	0.2 ug/L	0.2	0.3	0.4	<0.2	-	-
Vanadium	0.5 ug/L	6.2	3.4	2.4	<0.5	-	-
Zinc	5.0 ug/L	7.2	39.2	7.8	<5.0	-	-
mSPLP Leachate VOCs							
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	-	-
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Ethylene dibromide (dibromoethane,	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	-	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-

	Client ID:	BH26-01 SA2 (Lab ID: 2616041-02)	BH26-03 SA1B (Lab ID: 2616041-06)	BH26-03 SA2 (Lab ID: 2616041-07)	BH26-04 SA3 (Lab ID: 2616041-10)	-	-
	Sample Date:	07-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2617118-01	2617118-02	2617118-03	2617118-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
mSPLP Leachate VOCs							
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,2-Dichloroethane	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
cis-1,2-Dichloroethylene	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	-	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Tetrachloroethylene	0.5 ug/L	<0.5	<0.5	0.6	0.8	-	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Trichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
4-Bromofluorobenzene	Surrogate	111%	110%	110%	111%	-	-
Dibromofluoromethane	Surrogate	102%	100%	99.7%	101%	-	-
Toluene-d8	Surrogate	99.0%	100%	99.2%	98.5%	-	-

	Client ID:	BH26-07 SA2 (Lab ID: 2616041-11)	BH26-07 SA4 (Lab ID: 2616041-12)			-	-
	Sample Date:	10-Apr-26 09:00	10-Apr-26 09:00				
	Sample ID:	2617118-05	2617118-06				
	Matrix:	Soil	Soil				
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	88.0	74.2	-	-	-	-
mSPLP Leachate Metals							
Antimony	0.5 ug/L	2.6	1.4	-	-	-	-
Arsenic	1.0 ug/L	1.2	1.2	-	-	-	-
Barium	1.0 ug/L	81.2	39.6	-	-	-	-
Beryllium	0.5 ug/L	<0.5	<0.5	-	-	-	-
Boron	10.0 ug/L	13.7	38.8	-	-	-	-
Cadmium	0.2 ug/L	<0.2	<0.2	-	-	-	-
Chromium	1.0 ug/L	2.8	1.3	-	-	-	-
Cobalt	0.5 ug/L	1.0	<0.5	-	-	-	-
Copper	0.5 ug/L	6.4	4.8	-	-	-	-
Lead	0.2 ug/L	21.3	6.5	-	-	-	-
Molybdenum	0.5 ug/L	1.5	4.6	-	-	-	-
Nickel	1.0 ug/L	1.8	<1.0	-	-	-	-
Selenium	1.0 ug/L	<1.0	<1.0	-	-	-	-
Silver	0.2 ug/L	<0.2	<0.2	-	-	-	-
Thallium	0.5 ug/L	<0.5	<0.5	-	-	-	-
Uranium	0.2 ug/L	<0.2	0.3	-	-	-	-
Vanadium	0.5 ug/L	4.7	5.8	-	-	-	-
Zinc	5.0 ug/L	13.8	6.5	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
mSPLP Leachate Metals								
Antimony	ND	0.5	ug/L					
Arsenic	ND	1.0	ug/L					
Barium	ND	1.0	ug/L					
Beryllium	ND	0.5	ug/L					
Boron	ND	10.0	ug/L					
Cadmium	ND	0.2	ug/L					
Chromium	ND	1.0	ug/L					
Cobalt	ND	0.5	ug/L					
Copper	ND	0.5	ug/L					
Lead	ND	0.2	ug/L					
Molybdenum	ND	0.5	ug/L					
Nickel	ND	1.0	ug/L					
Selenium	ND	1.0	ug/L					
Silver	ND	0.2	ug/L					
Thallium	ND	0.5	ug/L					
Uranium	ND	0.2	ug/L					
Vanadium	ND	0.5	ug/L					
Zinc	ND	5.0	ug/L					
mSPLP Leachate VOCs								
Bromomethane	ND	4.3	ug/L					
Carbon Tetrachloride	ND	1.7	ug/L					
Chloroform	ND	4.3	ug/L					
Ethylene dibromide (dibromoethane, 1,2-)	ND	1.7	ug/L					
1,2-Dichlorobenzene	ND	4.3	ug/L					
1,4-Dichlorobenzene	ND	4.3	ug/L					
1,2-Dichloroethane	ND	1.7	ug/L					
1,1-Dichloroethane	ND	4.3	ug/L					
1,1-Dichloroethylene	ND	4.3	ug/L					
cis-1,2-Dichloroethylene	ND	1.7	ug/L					
trans-1,2-Dichloroethylene	ND	4.3	ug/L					
1,2-Dichloropropane	ND	4.3	ug/L					
cis-1,3-Dichloropropylene	ND	4.3	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
trans-1,3-Dichloropropylene	ND	4.3	ug/L					
1,3-Dichloropropene, total	ND	4.3	ug/L					
1,1,1,2-Tetrachloroethane	ND	4.3	ug/L					
1,1,2,2-Tetrachloroethane	ND	4.3	ug/L					
Tetrachloroethylene	ND	4.3	ug/L					
1,1,2-Trichloroethane	ND	4.3	ug/L					
Trichloroethylene	ND	4.3	ug/L					
Surrogate: 4-Bromofluorobenzene	*793*		*%*	*115*	*50-140*			
Surrogate: Dibromofluoromethane	*559*		*%*	*81.3*	*50-140*			
Surrogate: Toluene-d8	*720*		*%*	*105*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
mSPLP Leachate Metals									
Antimony	0.81	0.5	ug/L	0.68			17.1	50	
Arsenic	4.20	1.0	ug/L	4.22			0.5	50	
Barium	52.9	1.0	ug/L	53.1			0.4	50	
Beryllium	ND	0.5	ug/L	ND			NC	50	
Boron	10.3	10.0	ug/L	ND			NC	50	
Cadmium	ND	0.2	ug/L	ND			NC	50	
Chromium	2.69	1.0	ug/L	2.72			1.4	50	
Cobalt	0.84	0.5	ug/L	0.82			2.3	50	
Copper	8.29	0.5	ug/L	8.66			4.3	50	
Lead	42.7	0.2	ug/L	43.5			1.8	50	
Molybdenum	1.27	0.5	ug/L	1.30			2.4	50	
Nickel	2.67	1.0	ug/L	2.75			3.0	50	
Selenium	ND	1.0	ug/L	ND			NC	50	
Silver	ND	0.2	ug/L	ND			NC	50	
Thallium	ND	0.5	ug/L	ND			NC	50	
Uranium	0.28	0.2	ug/L	0.27			2.7	50	
Vanadium	3.35	0.5	ug/L	3.37			0.8	50	
Zinc	39.5	5.0	ug/L	39.2			0.6	50	
mSPLP Leachate VOCs									
Bromomethane	ND	4.3	ug/L	ND			NC	50	
Carbon Tetrachloride	ND	1.7	ug/L	ND			NC	50	
Chloroform	ND	4.3	ug/L	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	1.7	ug/L	ND			NC	50	
1,2-Dichlorobenzene	ND	4.3	ug/L	ND			NC	50	
1,4-Dichlorobenzene	ND	4.3	ug/L	ND			NC	50	
1,2-Dichloroethane	ND	1.7	ug/L	ND			NC	50	
1,1-Dichloroethane	ND	4.3	ug/L	ND			NC	50	
1,1-Dichloroethylene	ND	4.3	ug/L	ND			NC	50	
cis-1,2-Dichloroethylene	ND	1.7	ug/L	ND			NC	50	
trans-1,2-Dichloroethylene	ND	4.3	ug/L	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,2-Dichloropropane	ND	4.3	ug/L	ND			NC	50	
cis-1,3-Dichloropropylene	ND	4.3	ug/L	ND			NC	50	
trans-1,3-Dichloropropylene	ND	4.3	ug/L	ND			NC	50	
1,3-Dichloropropene, total	ND	4.3	ug/L	ND			NC	200	
1,1,1,2-Tetrachloroethane	ND	4.3	ug/L	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	4.3	ug/L	ND			NC	50	
Tetrachloroethylene	ND	4.3	ug/L	ND			NC	50	
1,1,2-Trichloroethane	ND	4.3	ug/L	ND			NC	50	
Trichloroethylene	ND	4.3	ug/L	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	*778*		*%*		*113*	*50-140*			
Surrogate: Dibromofluoromethane	*670*		*%*		*97.4*	*50-140*			
Surrogate: Toluene-d8	*682*		*%*		*99.1*	*50-140*			
Physical Characteristics									
% Solids	84.3	0.1	% by Wt.	85.4			1.3	25	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
mSPLP Leachate Metals									
Antimony	44.0	0.5	ug/L	0.68	86.6	60-130			
Arsenic	52.9	1.0	ug/L	4.22	97.3	70-130			
Barium	97.9	1.0	ug/L	53.1	89.6	70-130			
Beryllium	50.1	0.5	ug/L	ND	100	70-130			
Boron	57.6	10.0	ug/L	ND	95.3	70-130			
Cadmium	47.6	0.2	ug/L	ND	94.9	70-130			
Chromium	51.2	1.0	ug/L	2.72	97.0	70-130			
Cobalt	47.9	0.5	ug/L	0.82	94.1	70-130			
Copper	52.9	0.5	ug/L	8.66	88.5	70-130			
Lead	88.1	0.2	ug/L	43.5	89.1	70-130			
Molybdenum	48.7	0.5	ug/L	1.30	94.8	70-130			
Nickel	48.9	1.0	ug/L	2.75	92.3	70-130			
Selenium	50.6	1.0	ug/L	ND	100	70-130			
Silver	44.2	0.2	ug/L	ND	88.4	70-130			
Thallium	46.4	0.5	ug/L	ND	92.8	70-130			
Uranium	48.7	0.2	ug/L	0.27	96.8	70-130			
Vanadium	53.7	0.5	ug/L	3.37	101	70-130			
Zinc	85.4	5.0	ug/L	39.2	92.3	70-130			
mSPLP Leachate VOCs									
Bromomethane	316	4.3	ug/L	ND	91.8	50-140			
Carbon Tetrachloride	288	1.7	ug/L	ND	83.6	50-140			
Chloroform	402	4.3	ug/L	ND	117	50-140			
Ethylene dibromide (dibromoethane, 1,2-)	383	1.7	ug/L	ND	111	50-140			
1,2-Dichlorobenzene	380	4.3	ug/L	ND	111	50-140			
1,4-Dichlorobenzene	378	4.3	ug/L	ND	110	50-140			
1,2-Dichloroethane	378	1.7	ug/L	ND	110	50-140			
1,1-Dichloroethane	403	4.3	ug/L	ND	117	50-140			
1,1-Dichloroethylene	391	4.3	ug/L	ND	114	50-140			
cis-1,2-Dichloroethylene	394	1.7	ug/L	ND	114	50-140			
trans-1,2-Dichloroethylene	364	4.3	ug/L	ND	106	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,2-Dichloropropane	379	4.3	ug/L	ND	110	50-140			
cis-1,3-Dichloropropylene	319	4.3	ug/L	ND	92.7	50-140			
trans-1,3-Dichloropropylene	318	4.3	ug/L	ND	92.3	50-140			
1,1,1,2-Tetrachloroethane	381	4.3	ug/L	ND	111	50-140			
1,1,2,2-Tetrachloroethane	337	4.3	ug/L	ND	98.0	50-140			
Tetrachloroethylene	401	4.3	ug/L	ND	116	50-140			
1,1,2-Trichloroethane	407	4.3	ug/L	ND	118	50-140			
Trichloroethylene	425	4.3	ug/L	ND	124	50-140			
Surrogate: 4-Bromofluorobenzene	*690*		*%*		*100*	*50-140*			
Surrogate: Dibromofluoromethane	*608*		*%*		*88.4*	*50-140*			
Surrogate: Toluene-d8	*636*		*%*		*92.4*	*50-140*			

Certificate of Analysis

Report Date: 23-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 13-Apr-2026

Client PO:

Project Description: 101260.004

Qualifier Notes:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

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

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

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

PARACEL LABORATORIES LTD

Paracel ID: 2617118

Laurent Blvd.
ario K1G 4J8
-1947
aracellabs.com
labs.com

Paracel Order Number (Lab Use Only)	**Chain Of Custody (Lab Use Only)**
2617118	

Client Name: GEMTEC	Project Ref: 101260.004	Page 1 of 1
Contact Name: Daniel Elliot	Quote #:	**Turnaround Time**
Address: 32 Steacie Drive, Ottawa, ON	PO #:	☐ 1 day ☐ 3 day
	E-mail: dan.elliot@gemtec.ca jeffrey.gauthier@gemtec.ca	☐ 2 day ☒ Regular
Telephone: 613-836-1422		Date Required:

☐ REG 153/04 ☒ REG 406/19

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

Other Regulation

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

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

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	Required Analysis: mSPLP Metals	Required Analysis: mSPLP VOCs
1	BH26-01 SA2 (Lab ID: 2616041-02)	S		1		7-Apr-26		X	X
2	BH26-03 SA1B (Lab ID: 2616041-06)	S		1		10-Apr-26		X	X
3	BH26-03 SA2 (Lab ID: 2616041-07)	S		1		10-Apr-26		X	X
4	BH26-04 SA3 (Lab ID: 2616041-10)	S		1		10-Apr-26		X	X
5	BH26-07 SA2 (Lab ID: 2616041-11)	S		1		10-Apr-26		X	X
6	BH26-05 SA2B (Lab ID: 2616096-02)	S		1		14-Apr-26		X	X
7									
8									
9									
10									

Comments:

Method of Delivery:

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com

Relinquished By (Sign): Daniel Elliot Digitally signed by Daniel Elliot Date: 2026.04.20 13:48:00 -04'00'	**Received at Depot:**	**Received at Lab:**	**Verified By:**
Relinquished By (Print): Daniel Elliot	**Date/Time:**	**Date/Time:**	**Date/Time:** Apr 20 26 16:57
Date/Time: 20-Apr-26 16:07	**Temperature:** °C	**Temperature:**	**pH Verified:** ☐ **By:**

PARAC LABORATORIES

Paracel ID: 2617118

Head Office
300-2319 St. Laurent Blvd.
Ottawa, Ontario K1G 4J8
1-800-749-1947
paracel@paracellabs.com
www.paracellabs.com

Paracel Order Number (Lab Use Only): 2617118

Chain Of Custody (Lab Use Only)

Client Name: GEMTEC	Project Ref: 101260.004	Page 1 of 1
Contact Name: Daniel Elliot	Quote #:	**Turnaround Time**
Address: 32 Steacie Drive, Ottawa, ON	PO #:	☐ 1 day ☐ 3 day
	E-mail: dan.elliot@gemtec.ca jeffrey.gauthier@gemtec.ca	☐ 2 day ☒ Regular
Telephone: 613-836-1422		Date Required:

☐ REG 153/04 ☒ REG 406/19

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

Other Regulation

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

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

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	mSPLP Metals	mSPLP VOCs								
1	BH26-01 SA2 (Lab ID: 2616041-02)	S		1		7-Apr-26		X	X								
2	BH26-03 SA1B (Lab ID: 2616041-06)	S		1		10-Apr-26		X	X								
3	BH26-03 SA2 (Lab ID: 2616041-07)	S		1		10-Apr-26		X	X								
4	BH26-04 SA3 (Lab ID: 2616041-10)	S		1		10-Apr-26		X	X								
5	BH26-07 SA2 (Lab ID: 2616041-11)	S		1		10-Apr-26		X									
6	BH26-07 SA4 (Lab ID: 2616041-12)	S		1		10-Apr-26		X									
7																	
8																	
9																	
10																	

Comments: Revised COC

Method of Delivery:

Unless otherwise negotiated by the parties, by signing Paracel's Chain of Custody form, you are agreeing to Paracel Laboratories Terms and Conditions and are subject to the terms and conditions thereof. Available at www.paracellabs.com

Relinquished By (Sign): Daniel Elliot Digitally signed by Daniel Elliot Date: 2026.04.21 13:51:44 -04'00'	**Received at Depot:**	**Received at Lab:**	**Verified By:**
Relinquished By (Print): Daniel Elliot	**Date/Time:**	**Date/Time:**	**Date/Time:** 21 APR 2026
Date/Time: 21-Apr-26 13:50	**Temperature:** °C	**Temperature:**	**pH Verified:** ☐ **By:**

PARACEL LABORATORIES LTD.
TRUSTED. RESPONSIVE. RELIABLE.

300 - 2319 St. Laurent Blvd
Ottawa, ON, K1G 4J8
1-800-749-1947
www.paracellabs.com

Certificate of Analysis

GEMTEC Consulting Engineers and Scientists Limited
32 Steacie Drive
Kanata, ON K2K 2A9
Attn: Dan Elliot

Client PO:
Project: 101260.004
Custody:

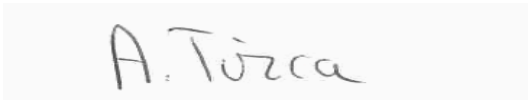
Report Date: 24-Apr-2026
Order Date: 21-Apr-2026

Order #: 2617229

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

Paracel ID	Client ID
2617229-01	BH26-01 SA1
2617229-02	BH26-02 SA1A
2617229-03	BH26-03 SA1A
2617229-05	BH26-04 SA1
2617229-06	BH26-05 SA1
2617229-07	BH26-06 SA1

Approved By:



Adriana Tirca, B.Eng (Chem)
Supervisor

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
PCBs, total	SW846 8082A - GC-ECD	Ottawa	22-Apr-26	22-Apr-26
Solids, %	CWS Tier 1 - Gravimetric		22-Apr-26	23-Apr-26

Certificate of Analysis

Report Date: 24-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 21-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-01 SA1	BH26-02 SA1A	BH26-03 SA1A	BH26-04 SA1	-	-
	Sample Date:	07-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00	10-Apr-26 09:00		
	Sample ID:	2617229-01	2617229-02	2617229-03	2617229-05		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	93.8	95.1	92.5	94.0	-	-
PCBs							
PCBs, total	0.05 ug/g	<0.05	<0.05	<0.05	<0.05	-	-
Decachlorobiphenyl	Surrogate	103%	95.0%	91.2%	95.9%	-	-

Certificate of Analysis

Report Date: 24-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 21-Apr-2026

Client PO:

Project Description: 101260.004

	Client ID:	BH26-05 SA1	BH26-06 SA1			-	-
	Sample Date:	13-Apr-26 09:00	13-Apr-26 09:00				
	Sample ID:	2617229-06	2617229-07				
	Matrix:	Soil	Soil				
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	93.3	91.9	-	-	-	-
PCBs							
PCBs, total	0.05 ug/g	<0.05	<0.05	-	-	-	-
Decachlorobiphenyl	Surrogate	81.5%	91.2%	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs								
PCBs, total	ND	0.05	ug/g					
Surrogate: Decachlorobiphenyl	*0.0430*		*%*	*86.0*	*60-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	ND	0.05	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	*0.0609*		*%*		*103*	*60-140*			
Physical Characteristics									
% Solids	94.2	0.1	% by Wt.	94.0			0.2	25	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	0.393	0.05	ug/g	ND	83.3	60-140			
Surrogate: Decachlorobiphenyl	*0.0642*		*%*		*109*	*60-140*			

Certificate of Analysis

Report Date: 24-Apr-2026

Client: **GEMTEC Consulting Engineers and Scientists Limited**

Order Date: 21-Apr-2026

Client PO:

Project Description: 101260.004

Qualifier Notes:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

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

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

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

PARACEL LABORATORIES LTD

Paracel ID: 2617229

Laurent Blvd.
ario K1G 4J8
-1947
aracellabs.com
llabs.com

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2617229	

Client Name: GEMTEC	Project Ref: 101260.004	Page 1 of 1
Contact Name: Dan Elliot	Quote #:	Turnaround Time
Address: 32 Steacie Drive, Kanata, ON K2K 2A9	PO #:	☐ 1 day ☐ 3 day
	E-mail: dan.elliot@gemtec.ca jeffrey.gauthier@gemtec.ca	☐ 2 day ☒ Regular
Telephone: 613-836-1422		Date Required:

☐ REG 153/04 ☑ REG 406/19

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

Other Regulation

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

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

Required Analysis

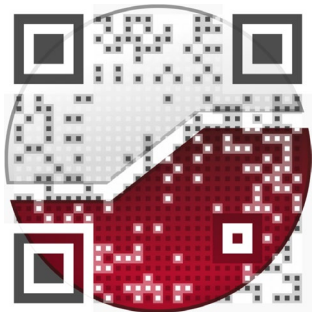
	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PCBs
1	BH26-01 SA1	S				Apr 7/26		X
2	BH26-02 SA1A	S				Apr 10/26		X
3	BH26-03 SA1A	S				Apr 10/26		X
4	BH26-03 SA1B	S				Apr 10/26		X
5	BH26-04 SA1	S				Apr 10/26		X
6	BH26-05 SA1	S				Apr 13/26		X
7	BH26-06 SA1	S				Apr 13/26		X
8								
9								
10								

Comments: Revised COC for additional analysis

Method of Delivery:

Relinquished By (Sign): Jeffrey Gauthier Digitally signed by Jeffrey Gauthier Date: 2026.04.21 15:10:08 -04'00'	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): Jeffrey Gauthier	Date/Time:	Date/Time:	Date/Time: Apr 21/26 15:40
Date/Time: April 21, 2026 15:10	Temperature: °C	Temperature:	pH Verified: ☐ By:

experience • knowledge • integrity



civil	civil
geotechnical	géotechnique
environmental	environnement
structural	structures
field services	surveillance de chantier
materials testing	service de laboratoire des matériaux

expérience • connaissance • intégrité