FINAL

Phase Two Environmental Site Assessment

25 Pickering Place and 1330 Avenue K
Ottawa, Ontario

Prepared for:

25 Pickering Holdings Inc.
16 Concourse Gate, Suite 200
Ottawa, ON K2E 7S8

May 26, 2025

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1.0 EXECUTIVE SUMMARY

Pinchin Ltd. (Pinchin) was retained by 25 Pickering Holdings Inc. (Client), to complete a Phase Two Environmental Site Assessment (Phase Two ESA) of the property located at 25 Pickering Place and 1330 Avenue K in Ottawa, Ontario (hereafter referred to as the Site or Phase Two Property). The Phase Two Property is presently vacant but was formerly developed with six industrial buildings (Site Buildings A to F), which were used for the manufacturing, production, storage, and distribution of cleaning products.

The Phase Two ESA was conducted at the request of the Client in relation to the future redevelopment of the Phase Two Property from industrial to residential land use. A Record of Site Condition (RSC) submittal to the Ontario Ministry of Environment, Conservation and Parks (MECP) is a mandatory requirement when a land use changes to a more sensitive land use and as such, to support the RSC submission, the Phase Two ESA was conducted in accordance with the Province of Ontario's *Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act*, which was last amended by Ontario Regulation 362/23 on November 29, 2023 (O. Reg. 153/04).

The objectives of this Phase Two ESA were to assess the soil and groundwater quality in relation to 13 areas of potential environmental concern (APECs) and related potentially contaminating activities (PCAs) and contaminants of potential concern (COPCs) identified in a Phase One ESA completed by Pinchin in accordance with O. Reg. 153/04. The identified APECs, PCAs and COPCs are summarized in Tables 1 and 2 (all Tables are provided within Section 9.0).The Phase Two ESA was completed by Pinchin between May 14, 2021 and February 27, 2025 and consisted of the following:

- Initial investigation of the APECs.
- Remediation of identified soil impacts.

The initial APECs investigation included the advancement of 16 boreholes at the Phase Two Property, seven of which were completed as groundwater monitoring wells to facilitate the sampling of groundwater and the assessment of groundwater flow. The boreholes were advanced to depths ranging from approximately 1.52 to 3.66 metres below ground surface (mbgs). Select soil samples collected from each of the borehole locations were submitted for laboratory analysis of volatile organic compounds (VOCs), petroleum hydrocarbons (PHCs) fractions 1 through 4 (F1-F4), polycyclic aromatic hydrocarbons (PAHs), acids, bases, and neutrals (ABNs), polychlorinated biphenyls (PCBs), chlorophenols, metals and/or inorganic parameters. In addition, groundwater samples were collected from each of the newly-installed monitoring wells, as well as four previously-installed monitoring wells, and submitted for laboratory analysis of VOCs, PHCs, PAHs, ABNs, chlorophenols, metals and/or inorganic parameters.

Based on Site-specific information, the applicable regulatory standards for the Phase Two Property were determined to be the *"Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground*

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Water Condition", provided in the MECP document entitled, "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*" dated April 15, 2011 *(Table 3 Standards)* for medium and fine-textured soils and residential/parkland/institutional property use.

The laboratory results for the submitted soil samples indicated that all reported concentrations for the parameters analyzed met the corresponding *Table 3 Standards*, except for the following:

- The concentrations of chlorobenzene (6.3 micrograms per gram [µg/g] vs. the *Table 3 Standard* of 2.7 µg/g) and 1,4-dichlorobenzene (81 µg/g vs. the *Table 3 Standard* of 0.097 µg/g) reported for soil sample SS-3, collected at borehole BH209 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of 1,4-dichlorobenzene (0.15 µg/g vs. the *Table 3 Standard* of 0.097 µg/g) and PHCs F3 (1,800 µg/g vs. the *Table 3 Standard* of 1,300 µg/g) reported for soil sample SS-3, collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of 1,4-dichlorobenzene (0.13 µg/g vs. the *Table 3 Standard* of 0.097 µg/g), PHCs F2 (230 µg/g vs. the *Table 3 Standard* of 150 µg/g) and PHCs F3 (1,700 µg/g vs. the *Table 3 Standard* of 1,300 µg/g) reported for soil sample DUP-1 (field duplicate of soil sample SS-3), collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of benzo(a)pyrene (0.51 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (1.1 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) reported for soil sample SS-1, collected at borehole BH201 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of lead (120 µg/g vs. the *Table 3 Standard* of 120 µg/g), anthracene (1.2 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (2.5 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (2.2 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (2.9 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), benzo(k)fluoranthene (1.1 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), dibenzo(a,h)anthracene (0.36 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (6.6 µg/g vs. the *Table 3 Standard* of 0.69 µg/g),and indeno(1,2,3-c,d)pyrene (1.3 µg/g vs. the *Table 3 Standard* of 0.48 µg/g) reported for soil sample SS-1, collected at borehole BH202 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of benzo(a)pyrene (0.42 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (0.82 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) reported for soil sample SS-1, as well as electrical conductivity (EC) (1.8 milliSiemens per centimetre

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[mS/cm] vs. the *Table 3 Standard* of 0.7 mS/cm) and sodium adsorption ratio (SAR) (12 vs. the *Table 3 Standard* of 5) collected at borehole BH203 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;

- The concentrations of benzo(a)pyrene (0.32 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (0.85 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) as well as EC (1.3 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) reported for soil sample SS-1, collected at borehole BH205 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of PHCs F2 (1,300 µg/g vs. the *Table 3 Standard* of 150 µg/g), PHCs F3 (15,000 µg/g vs. the *Table 3 Standard* of 1,300 µg/g), cadmium (2.1 µg/g vs. the *Table 3 Standard* of 1.2 µg/g), lead (180 µg/g vs. the *Table 3 Standard* of 120 µg/g), zinc (500 µg/g vs. the *Table 3 Standard* of 340 µg/g), acenaphthene (60 µg/g vs. the *Table 3 Standard* of 58 µg/g), acenaphthylene (12 µg/g vs. the *Table 3 Standard* of 0.17 µg/g), anthracene (110 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (140 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (99 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (150 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), benzo(ghi)perylene (47 µg/g vs. the *Table 3 Standard* of 7.8 µg/g), benzo(k)fluoranthene (44 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), chrysene (110 µg/g vs. the *Table 3 Standard* of 7.8 µg/g), dibenzo(a,h)anthracene (13 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (410 µg/g vs. the *Table 3 Standard* of 0.69 µg/g), fluorene (93 µg/g vs. the *Table 3 Standard* of 69 µg/g), indeno(1,2,3-c,d)pyrene (53 µg/g vs. the *Table 3 Standard* of 0.48 µg/g), 1- & 2-methylnaphthalene (47 µg/g vs. the *Table 3 Standard* of 0.99 µg/g), naphthalene (48 µg/g vs. the *Table 3 Standard* of 0.75 µg/g), phenanthrene (430 µg/g vs. the *Table 3 Standard* of 7.8 µg/g) and pyrene (300 µg/g vs. the *Table 3 Standard* of 78 µg/g) reported for soil sample SS-1, collected at borehole BH206 from a depth of 0.15 to 0.51 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of anthracene (6 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (8.6 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (7.1 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (8.6 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), benzo(k)fluoranthene (3 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), dibenzo(a,h)anthracene (0.9 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (23 µg/g vs. the *Table 3 Standard* of 0.69 µg/g), indeno(1,2,3-c,d)pyrene (3.9 µg/g vs. the *Table 3 Standard* of 0.48 µg/g) and phenanthrene (430 µg/g vs. the *Table 3 Standard* of 7.8 µg/g) as well as SAR (13 vs. the *Table 3 Standard* of 5) reported for soil sample SS-1, collected at borehole MW214 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;

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- EC (1.1 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (5.6 vs. the *Table 3 Standard* of 5) reported for soil sample SS-1 collected at borehole BH204 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- EC (1.2 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (6.4 vs. the *Table 3 Standard* of 5) reported for soil sample DUP-3 (field duplicated of soil sample SS-1) collected at borehole BH204 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- EC (1.2 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) reported for soil sample SS-1 collected at borehole MW208 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*; and
- The concentrations of cadmium (15 µg/g vs. the *Table 3 Standard* of 1.2 µg/g), copper (400 µg/g vs. the *Table 3 Standard* of 180 µg/g), lead (340 µg/g vs. the *Table 3 Standard* of 120 µg/g), zinc (400 µg/g vs. the *Table 3 Standard* of 340 µg/g), EC (2 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (7.8 vs. the *Table 3 Standard* of 5) reported for soil sample SS-2 collected at borehole BH207 from a depth of 0.51 to 1.22 mbgs, exceeded the *Table 3 Standards*.

Several soil samples reported EC and SAR levels exceeding the *Table 3 Standards* but the elevated EC and SAR levels have been attributed to the application of road salt on roadways adjacent to the Phase Two Property. The road salt contaminant exemption in O. Reg. 153/04 is considered applicable in this situation and EC and SAR are not considered contaminants at the Phase Two Property.

The laboratory results for the submitted groundwater samples indicated that all reported concentrations for the parameters analyzed met the corresponding *Table 3 Standards*.

The soil with concentrations of PHCs, VOCs, PAHs and metals exceeding the *Table 3 Standards* was excavated and a total of 19,371 tonnes of impacted soil was disposed of off-Site at a licensed landfill. The concentrations of PHCs, VOCs, PAHs and metals in verification soil samples collected at the final limits of the remedial excavations were all below the *Table 3 Standards*. No soil was imported to the Phase Two Property to backfill the remedial excavations.

It is the opinion of the Qualified Person (QP) who supervised the Phase Two ESA that the applicable *Table 3 Standards* for soil and groundwater at the Phase Two Property have been met as of the Certification Date of February 27, 2025 and that no further subsurface investigation is required in relation to assessing the environmental quality of soil and groundwater at the Phase Two Property.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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2.0 INTRODUCTION

A Phase Two ESA is defined as an "assessment of property conducted in accordance with the regulations by or under the supervision of a QP to determine the location and concentration of one or more contaminants in the land or water on, in or under the property". Under O. Reg. 153/04, the purpose of a Phase Two ESA is as follows:

- To determine the location and concentration of contaminants in the land or water on, in or under the Phase Two Property;
- To obtain information about environmental conditions in the land or water on, in or under the Phase Two Property necessary to undertake a Risk Assessment, in accordance with O. Reg. 153/04, with respect to one or more contaminants of concern; and
- To determine if applicable Site Condition Standards and standards specified in a Risk Assessment for contaminants on, in or under the Phase Two Property were met as of the certification date by developing an understanding of the geological and hydrogeological conditions at the Phase Two Property and conducting one or more rounds of field sampling for all contaminants associated with any APEC identified in the Phase Two ESA sampling and analysis plan (SAP) and for any such contaminants identified during subsequent Phase Two ESA activities and analyses of environmental conditions at the Phase Two Property.

This Phase Two ESA was conducted at the request of the Client in relation to the future redevelopment of the Phase Two Property from industrial to residential land use. An RSC submittal to the MECP is a mandatory requirement when a land use changes to a more sensitive land use and as such, to support the RSC submission, the Phase Two ESA was conducted in accordance with O. Reg. 153/04.

The overall objectives of this Phase Two ESA were to assess the soil and groundwater quality in relation to APECs and related COPCs identified in a Phase One ESA completed by Pinchin, the findings of which were summarized in the report entitled "*Phase One Environmental Site Assessment*, *25 Pickering Place and 1330 Avenue K, Ottawa Ontario*", completed by Pinchin for the Client and dated April 6, 2021. The property assessed by the Pinchin Phase One ESA is referred to herein as the Phase One Property. The Phase Two ESA was conducted on the whole Phase One Property, and the Phase One Property and Phase Two Property have the same boundaries.

2.1 Site Description

This Phase Two ESA was completed for the property located at the municipal address of 25 Pickering Place and 1330 Avenue K in Ottawa, Ontario. The Phase Two Property is 5.0 acres (2.0 hectares) in size and is bounded by Avenue L to the east, commercial parking space and Tremblay Road to the north,

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Pickering Place to the west and parking spaces and commercial land uses to the south. A Key Map showing the Phase Two Property location is provided on Figure 1 and a detailed plan of the Phase Two Property and surrounding lands is provided on Figure 2 (all Figures are provided within Section 9.0).

The Site is currently vacant but was formerly developed with six industrial buildings (Dustbane) (Site Buildings A to F), which are used for the manufacturing, production, storage, and distribution of cleaning products.

A summary of the pertinent details of the Phase Two Property is provided in the following table:

Detail	Source / Reference	Information
Legal Description	Legal Survey Drawing provided by the Client	Lots 457, 458, 459, 460, 466, 467, and Lots 470 to 482 (inclusive), and Lots 487 to 503 (inclusive), and Lots 506 to 522 (inclusive), and Lots 529 to 552 (inclusive), and Part of Lots 461, 462, 463, 464, 465, and Part of Avenue J (Closed By By-Law 193-50 Inst. OT3267 and By-Law 6-67 Inst. OT74046), And Part of Avenue K (Closed by By-Law 127-50 (Inst. OT2235), Registered Plan 320, City of Ottawa
Municipal Address	Client	25 Pickering Place and 1330 Avenue K Ottawa, ON K1G 5P4
Parcel Identification Number (PIN)	Chain of Title Search Results	04256-0002 (LT)
Current Owner	Client	25 Pickering Holding Inc.
Current Occupant	Site Representative, Site reconnaissance	Vacant
Client	Authorization to Proceed, Limitation of Liability & Terms of Engagement Form	25 Pickering Holding Inc.
Client Contact Information	Authorization to Proceed, Limitation of Liability & Terms of Engagement Form	William Kealey c/o Colonnade Bridgeport 16 Concourse Gate, Suite 200 Ottawa, ON K2E 7S8 Phone: 613.225.8118 wkealey@colonnadebridgeport.ca
Site Area	Site Representative	2.0 hectares (5.0 acres)
Current Zoning	http://maps.ottawa.ca/geoottawa/ City of Ottawa	TD2 and TD3 – Transit Oriented Development Zone

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Detail	Source / Reference	Information
Centroid UTM Co-ordinates	Garmin eTrex LEGEND HCx, NAD 83, Accuracy +- 3 m	449108 Easting
		5029653 Northing
		Zone 18T

A legal survey showing the Phase Two Property is provided in Appendix A (all Appendices are provided in Section 10.0).

2.2 Property Ownership

The entirety of the Phase Two Property is currently owned by 25 Pickering Holdings Inc. located at 16 Concourse Gate, Suite 200, Ottawa, Ontario. Contact information for the Phase Two Property owner is provided in the preceding section.

Pinchin was retained by Mr. William Kealey c/o 25 Pickering Holdings Inc. to conduct the Phase Two ESA of the Phase Two Property. Contact information for Mr. Kealey is provided in the preceding section.

2.3 Current and Proposed Future Uses

The Phase Two Property is was most recently utilized for industrial purposes and it is Pinchin's understanding that the Client intends to redevelop the Phase Two Property for residential land use.

Given that the future land use is changing to a more sensitive land use, there is a mandatory requirement that an RSC be filed as per Section 168.3.1 of the Province of Ontario's *Environmental Protection Act.*

2.4 Applicable Site Condition Standards

The Phase Two Property is currently an industrial property located within the City of Ottawa and the proposed future land use is residential. It is Pinchin's understanding that drinking water for the Phase Two Property and surrounding properties within 250 metres of the Phase Two Property is supplied by the City of Ottawa, and there are no known drinking water supply wells within 250 metres of the Phase Two Property. Source water is obtained by the City of Ottawa from the Ottawa River.

Bedrock was not encountered at any of the boreholes completed at the Phase Two Property during the Phase Two ESA, which were advanced to a maximum depth of approximately 3.66 mbgs and, as such, the Phase Two Property is not a shallow soil property as defined in Section 43.1 of O. Reg. 153/04.

The Phase Two Property does not contain a water body nor is it located within 30 metres of a water body and the use of standards for properties situated within 30 metres of a water body is not required.

Section 41 of O. Reg. 153/04 states that a property is classified as an "environmentally sensitive area" if the pH of the surface soil (less than or equal to 1.5 mbgs) is less than 5 or greater than 9, if the pH of the

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subsurface soil (greater than 1.5 mbgs) is less than 5 or greater than 11, or if the property is an area of natural significance or is adjacent to or contains land within 30 metres of an area of natural significance. A total of four representative soil samples collected from the boreholes advanced at the Phase Two Property were submitted for pH analysis. The pH analytical results are summarized in Table 3. The pH values measured in the submitted soil samples were within the limits for non-sensitive sites. The Phase Two Property is also not an area of natural significance, and it is not adjacent to, nor does it contain land within 30 metres of, an area of natural significance. As such, the Phase Two Property is not an environmentally sensitive area.

As discussed further in Section 6.4, based on the results of grain size analysis completed on representative soil samples collected during the Phase Two ESA and the observed stratigraphy at the borehole locations at the Phase Two Property, it is the QP's opinion that over two-thirds of the overburden at the Phase Two Property is medium and fine-textured as defined by O. Reg. 153/04. Therefore, the soil at the Phase Two Property has been considered medium and fine-textured or the purpose of establishing the applicable MECP Site Condition Standards.

Based on the above, the appropriate Site Condition Standards for the Phase Two Property are the Table 3 Standards for:

- Medium and fine-textured soils; and
- Residential/parkland/institutional property use.

As such, all analytical results have been compared to these *Table 3 Standards*.

3.0 BACKGROUND INFORMATION

3.1 Physical Setting

The Phase Two Property is located in the east/southeast portion of the City of Ottawa at an elevation of approximately 64 metres above mean sea level (mamsl). The topography of the Phase Two Property and surrounding area gradually slopes towards the north. Properties surrounding the Phase Two Property are at an equivalent grade. There are no drainage features (e.g., open ditches or swales) present on-Site. Surface water (e.g., storm runoff) is inferred to run overland and drain into the on-Site municipal storm sewer catch basins.

There are no open water bodies or areas of natural significance located on-Site or within the area assessed by the Pinchin Phase One ESA (the Phase One Study Area). A plan showing the Phase One Study Area is presented on Figure 3. The nearest surface water body to the Phase Two Property is the Ottawa River located approximately 4.1 kilometres northwest of the Phase Two Property at an elevation of approximately 48 mamsl.

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A review of the municipal plan for the City of Ottawa indicated that the Phase One Study Area is not located in whole or in part within a well head protection area or other designation identified by the City of Ottawa for the protection of groundwater.

Based on information provided by the City of Ottawa, the Phase One Property and all other properties within the Phase One Study Area are serviced by a municipal drinking water system.

The records review did not identify the presence of wells within the Phase One Property or within the Phase One Study Area that supply water for human consumption or for agricultural purposes.

3.2 Past Investigations

3.2.1 Summary of Previous Environmental Investigations by Others

Reports summarizing the following environmental investigations completed by others and by Pinchin and pertaining to the Phase Two Property were reviewed as part of the Pinchin Phase One ESA:

- Report entitled "*Phase I/Phase II Environmental Audit and Environmental Site Assessment, 25 Pickering Place, Ottawa, Ontario*", prepared by Adamas Environmental Inc. (Adamas), prepared for Dustbane Enterprises Limited and dated November 1993 (1993 Adamas Phase I/II ESA Report);
- Report entitled *"Supplemental Phase II & Asbestos Removal, 25 Pickering Place, Ottawa, Ontario"*, prepared by Adamas prepared for Dustbane Enterprises Ltd. and dated June 1994 (1994 Adamas Phase II ESA Report);
- Report entitled *"Soil Cleanup-Varsol Tank Removal, Dustbane Products Limited"*, prepared by Adamas prepared for Dustbane Products Limited and dated October 11, 1994 (1994 Adamas Soil Cleanup Report);
- Report entitled *"Phase I Environmental Site Assessment, 25 Pickering Place, Ottawa, Ontario"*, prepared by Paterson Group Inc. (Paterson), prepared for Dustbane Enterprises Limited and dated May 5, 2017 (2017 Paterson Phase I ESA Report);
- Report entitled *"Environmental Peer Review, 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario"*, prepared by Pinchin for Dustbane Enterprises Ltd. and dated July 9, 2018 (2018 Pinchin Environmental Peer Review Report);
- Report entitled "*Phase II Environmental Site Assessment, 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario*", prepared by Pinchin for Dustbane Enterprises Ltd., and dated July 20, 2018 (2018 Pinchin Phase II ESA Report);

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- Report entitled "*Supplemental Phase II Environmental Site Assessment, 25 Pickering Place, Ottawa, Ontario*", prepared by Pinchin for Fiera Real Estate Core Fund LP and 25 Pickering Holdings Inc., and dated February 25, 2020 (2020 Pinchin Phase II ESA Report);
- Report entitled "*Remedial Excavation and Verification Soil Sampling Program, 25 Pickering Place, Ottawa, Ontario*", prepared by Pinchin for Colonnade BridgePort, and dated July 31, 2020 (2020 Pinchin Remedial Excavation Report); and
- Letter report entitled "*Groundwater Monitoring and Sampling Program, 25 Pickering Place, Ottawa, Ontario*", prepared by Pinchin for Colonnade BridgePort, and dated May 7, 2021 (2021 Pinchin Groundwater Monitoring and Sampling Report).

A summary of the salient information identified in the above-referenced reports prepared by others is provided below.

1993 Adamas Phase I/II ESA Report

The Phase I ESA completed by Adamas included a review of historical information for the Phase One Property, documents provided by the Client and interviews, a Site inspection, and a review of surrounding land uses. Based on the results of the Phase I ESA, environmental concerns were identified as current and former ASTs, USTs, manufacturing, and historical fill materials.

The Phase II ESA completed by Adamas included the advancement of 11 boreholes across the Phase One Property in areas where environmental concerns were identified as part of the Phase I ESA. Boreholes were advanced to a maximum depth of 4.85 m below ground surface (mbgs). Ten boreholes were completed as groundwater monitoring wells.

Soil and groundwater samples submitted for laboratory analysis identified groundwater impacts at various locations of the Phase One Property, likely related to former USTs (these PCAs are included in Table 2 and labelled on Figure 4). Adamas recommended additional delineation be completed.

1994 Adamas Phase II ESA Report

The 1994 Adamas Supplemental Phase II ESA Report involved the advancement of four boreholes, all completed as groundwater monitoring wells.

Soil samples submitted for laboratory analysis identified no impacts exceeding the former Ministry of Environmental and Energy (MOEE) Interim Guidelines, but groundwater samples collected from the groundwater monitoring wells identified groundwater impacts exceeding the MOEE Interim Guidelines Interim Guidelines for the Assessment and Management of Petroleum Contaminated Sites in Ontario (*Interim Guidelines)*. In addition, as part of the report, Adamas supervised the removal of one abandoned

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varsol UST (formerly located adjacent to the north elevation of Site Building D). Soil samples collected from the walls and floor of the excavation submitted for laboratory analysis identified exceedances of the referenced MOEE *Interim Guidelines*.

Based on these results, Adamas recommended a groundwater monitoring program be implemented to monitor the subsurface groundwater impacts identified at the Phase One Property.

1994 Adamas Soil Cleanup Report

Based on the soil impacts identified as part of the above-noted varsol UST removal, Adamas was retained to supervise the remediation of additional impacted soil and groundwater. A total of 35 tonnes of soil from the initial and supplemental excavations were excavated and transported to a licenced landfill. Groundwater that had accumulated in the excavation was treated on-Site through a granular activated carbon system and discharged to the City of Ottawa sanitary sewer system. Soil samples collected from the walls and floor of the excavation satisfied the then-applicable MOEE *Interim Guidelines*.

2017 Paterson Phase I ESA Report

The 2017 Paterson Phase I ESA Report included a review of federal, provincial, and municipal information, personnel interviews, a review of previous reports and a Site visit. It should be noted that the 2017 Paterson Phase I ESA Report did not include a request for information from Environmental Risk Information Services (ERIS) or Opta.

Based on the Phase I ESA completed by Paterson, the following environmental concerns were identified:

- Former waste management practices may have resulted in contamination beneath the ‘chemical blending building’ and around the service trenches;
- Residual soil and groundwater impacts beneath and in the vicinity of the ‘Butler Building’ from a 3,790-L UST removed in 1994;
- Undefined petroleum hydrocarbon (PHC) groundwater plume located on the east portion of the Phase One Property;
- Automotive repair/servicing garage, equipped with a fuel pump, located at 1333 Avenue L (adjacent to the east boundary of the Phase One Property); and
- Use of seven USTs (gasoline, diesel, varsol, and naphtha varsol) located on the east and south-central portions of the Phase One Property. Although five USTs had reportedly been removed, no analytical results were available for the removal of five of the USTs, and the status of two of the seven USTs was unknown.

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Based on the above-noted information, a Phase II ESA was recommended.

2018 Pinchin Environmental Peer Review Report

Pinchin conducted an environmental peer review (EPR) of various environmental reports that were prepared by others for the Phase One Property. Based on the results of the EPR completed by Pinchin, the following potential issues of concern were identified:

- The Phase One Property, Dustbane Manufacturing Co. Ltd., was classified as a chemical products industry that included the manufacturing of sweeping compounds, cleaners, cleaning preparations; sweeping compound uses dye, oil, and nitro benzol, and had high phenol levels in wastewater streams. This operation has been on-Site since at least the 1920s. The Phase One Property was also had an apparent oil house, with a 2,000-gallon fuel oil tank, and a 10,000-gallon “nuso” oil tank, which were located on the south-central portion of the Phase One Property. Based on the above-noted information, as well as Pinchin’s review of the available previous environmental reports, it was Pinchin’s opinion that this on-Site operation had the potential to result in subsurface impacts at the Phase One Property.

Based on the findings noted above, Pinchin recommended completing a Phase II ESA at the Phase One Property in order to assess the above-noted concerns and delineate the extent of previously identified environmental impacts.

2018 Pinchin Phase II ESA Report

The Phase II ESA was completed at the Phase One Property by Pinchin between June 20 and 25, 2018, and consisted of the advancement of 11 boreholes, nine of which were completed as groundwater monitoring wells.

Select “worst case” soil samples collected during the borehole drilling program were submitted for laboratory analysis of PHCs (F1-F4), VOCs and PAHs. Groundwater samples collected from the newly installed groundwater monitoring wells were submitted for laboratory analysis of PHCs (F1-F4), VOCs and PAHs.

Based on Site-specific information, the soil and groundwater quality was assessed based on the *Table 3 Standards*.

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The reported concentrations of PHCs (F1-F4), VOCs and PAHs in the soil samples submitted for analysis met the *Table 3 Standard*s, with the following exceptions:

- Soil sample SS-4 collected at borehole BH-3 (east-northeast portion of the Phase One Property), which had concentrations of ethylbenzene, xylenes, PHCs (F1) and PHCs (F2) that exceeded the *Table 3 Standards*; and
- Soil sample SS-1 collected at borehole MW-4 (east-northeast portion of the Phase One Property), which had concentrations of benzene, ethylbenzene, toluene, xylenes, hexane, PHCs (F1) and PHCs (F2) that exceeded the *Table 3 Standards.*

The reported concentrations in the groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, and PAHs satisfied their respective *Table 3 Standards*, with the following exception:

- Groundwater sample collected at monitoring well MW-4 (east-northeast portion of the Phase One Property) which had concentrations of PHCs (F1 and F2), and benzene and xylenes that exceeded the *Table 3 Standards.*

The findings of this Phase II ESA identified PHC-impacted soil and groundwater at the Phase One Property, inferred to be from former fueling operations. It was Pinchin's understanding that future Site redevelopment was being considered. As such, it was Pinchin's recommendation that remedial work (i.e., excavation and groundwater removal) be completed at that time. It was also noted that based on previous investigations completed, soil impacts were not anticipated to extend off-Site.

2020 Pinchin Phase II ESA Report

The Phase II ESA was completed at the Phase One Property by Pinchin between January 8 and 10, 2020, and consisted of the advancement of 20 boreholes, three of which were completed as groundwater monitoring wells.

Select "worst case" soil samples collected during the borehole drilling program were submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs and/or metals. Groundwater samples collected from the newly installed groundwater monitoring wells were submitted for laboratory analysis of PHCs (F1-F4), VOCs and PAHs.

Based on Site-specific information and the potential future re-development of the Phase One Property, the soil and groundwater quality was assessed based on the *Table 3 Standards*.

The reported concentrations of PHCs (F1-F4), VOCs, PAHs and/or metals in the soil samples submitted for analysis met the *Table 3 Standards*.

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The reported concentrations of PHCs (F1-F4), VOCs and PAHs in the groundwater samples submitted for analysis met the *Table 3 Standards*, with the following exceptions:

- The groundwater sample collected from monitoring well MW-14 (east-central portion of the Phase One Property, near the Phase One Property boundary), which had concentrations of PHCs (F2) that exceeded the *Table 3 Standards*; and
- The groundwater sample collected from monitoring well MW-15 (east-central portion of the Phase One Property, near the Phase One Property boundary), which had concentrations of PHCs (F1) and (F2) that exceeded the *Table 3 Standards*.

The findings of this Phase II ESA and the previous 2018 Pinchin Phase II ESA identified petroleum-impacted soil and/or groundwater located within the vicinity of the former private fueling station along the east boundary of the Phase One Property. As such, it was Pinchin's opinion that a remedial excavation and groundwater treatment program be completed in the area of impacts.

2020 Pinchin Remedial Excavation Report

The Remedial Excavation was completed to remove soil and groundwater impacts resulting from a previous release from former on-Site USTs as identified through previous investigation work completed at the Site by Pinchin.

The excavation activities, which consisted of asphalt removal, overburden stockpiling, soil excavation, transportation of excavated material, and backfilling were conducted by Triangle Pump Service Limited at the Site between June 16, 2020 and June 26, 2020.

Following the excavation of soil with known impacts, soil samples were collected from the floor and sidewalls at the final limits of the excavation for field screening. Based on the results of field screening, a total of eight "worst case" soil samples were submitted for laboratory analysis of PHCs (F1-F4) and VOCs to assess soil quality at the excavation limits. In addition, two samples of suspected clean soil segregated during the excavation and three samples of imported granular material were also collected and submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs and metals to assess the environmental suitability of these materials for use as backfill at the Site.

Reported concentrations in the verification soil samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs and metals satisfied the *Table 3 Standards*.

Based on the findings of the VSSP completed in conjunction with the Remedial Excavation, it is Pinchin's opinion that no further remedial work was required in relation to the previously identified impacts at the Site. Pinchin also recommended that post-remedial monitoring wells be installed to evaluate the previously identified groundwater impacts in relation to the source removal.

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2021 Pinchin Groundwater Monitoring and Sampling Report

The purpose of the Groundwater Monitoring and Sampling Program was to further assess groundwater impacts following the completion of a Remedial Excavation and Verification Soil Sampling Program completed by Pinchin at the Site.

The Groundwater Monitoring and Sampling Program was conducted by Pinchin on August 19, 2020 through April 5, 2021. Groundwater monitoring wells were redeveloped in accordance with Pinchin's SOPs by purging them to dryness three times or removing three to five well casing volumes. For each sampling event, groundwater monitoring wells were purged and sampled in accordance with Pinchin's SOPs. The groundwater samples collected from these monitoring wells were submitted for laboratory analysis of PHCs (F1-F4) and BTEX. Purging and sampling for PHCs (F1) and BTEX was conducted using dedicated inertial pumps. Following purging with dedicated inertial pumps, sampling for PHCs (F2-F4) was conducted using a peristaltic pump and dedicated polyethylene tubing.

Reported concentrations in the final groundwater samples collected between August 2020 and April 2021 submitted for analysis of BTEX and PHCs (F1-F4) met the *Table 3 Standards*. Although the samples collected from MW14 exceeded the *Table 3 Standards*, these samples were considered to be biased-high based on sediment within the sample and were not considered to be representative of the true groundwater formation. MW14A was installed adjacent to MW14 as a replacement and two groundwater sampling events on March 11, 2021 and April 6, 2021 satisfied the *Table 3 Standards*.

Based on the findings of the Groundwater Monitoring and Sampling Program, it was Pinchin's opinion that no further residual groundwater impacts remain from the former USTs in this portion of the Site. Pinchin also recommended that MW14 be decommissioned in accordance with O. Reg. 903.

3.2.2 Pinchin Phase One ESA Summary

From July 2, 2020 through April 6, 2021, Pinchin conducted a Phase One ESA in support of the future filing of an RSC for the Phase Two Property. The Phase One ESA consisted of a Site visit, interviews with Site personnel, records review, evaluation of information, and preparation of a written report which was completed under the supervision of a QP. A plan showing the Phase One Study Area is attached as Figure 3.

In March 2024, Pinchin completed a Phase One ESA Update, the purposes of which were to:

- Assess whether any new APECs or PCAs exist at the Phase One Property or Phase One Study Area;
- Provide a revised table and figures summarizing PCAs identified in the Phase One Study Area; and

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- Provide a revised Phase One Conceptual Site Model (Phase One CSM) following further consideration of potential exposure pathways and ecological receptors.

The Phase One ESA Update was completed recently (i.e., within two months of the start of the Phase Two ESA) and in accordance with the requirements of O. Reg. 153/04. Therefore, the information provided within the 2021 Phase One ESA Report and 2024 Phase One ESA Update is considered adequate such that it can be relied upon for the purpose of this Phase Two ESA and future filing of an RSC.

Based on information obtained during the Phase One ESA, a total of 13 APECs and corresponding potentially contaminating activities (PCAs) and COPCs were identified that could potentially affect the environmental condition of the subsurface media on, in or under the Phase Two Property. The COPCs associated with each APEC were determined based on a review of the PCAs and substances associated with the related activities, and on several sources of information, including but not limited to, Pinchin's experience with environmental contamination and hazardous substances, common industry practices for analysis of such contaminants and point sources, literature reviews of COPCs and associated hazardous substances, and evaluations of contaminant mobility and susceptibility for migration in the subsurface.

Table 1 presents the APECs and their associated PCAs and COPCs. Identified on-Site and off-Site PCAs are summarized in Table 2 and their locations are shown on Figure 4 (on-Site PCAs) and Figure 5 (off-Site PCAs). APECs at the Phase Two Property are illustrated on Figure 6.

3.2.3 Use of Previous Analytical Data

The soil and groundwater data from the 2018 Pinchin Phase II ESA Report are considered to be of adequate quality and can be relied upon in assessing soil and groundwater conditions at the Site. The report including these data was reviewed, and no issues related to data quality were identified. Sampling procedures were acceptable and quality assurance/quality control (QA/QC) samples, consisting of trip blanks and field duplicate samples, were collected and analyzed at the frequency specified in O. Reg. 153/04 and no quality issues related to field sampling or laboratory methods were noted. The soil and groundwater analytical data summary tables from the 2018 Pinchin Phase II ESA Report are provided in Appendix B-1.

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4.0 SCOPE OF INVESTIGATION

4.1 Overview of Site Investigation

The scope of work for this Phase Two ESA was prepared to address the APECs identified at the Phase Two Property and consisted of the following:

- Developed a detailed SAP prior to the advancement of the boreholes and the installation of the monitoring wells. The SAP was outlined in the document entitled "*Sampling and Analysis Plan for Phase Two Environmental Site Assessment, 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario*", dated May 10, 2021, which is provided in Appendix B. Based on Pinchin's knowledge of the surrounding properties and known hydrogeological conditions, boreholes were advanced at the Phase Two Property to maximum depths ranging between approximately 1.52 and 3.66 mbgs.
- Retained Strata Drilling Group Inc. (Strata) to advance boreholes and complete monitoring well installations using a Geoprobe 7822D™ or Geoprobe 420M™ drill rig. Strata is licensed by the MECP in accordance with Ontario Regulation 903 (as amended) (O. Reg. 903) to undertake borehole drilling/well installation activities. Strata advanced 16 boreholes at the Phase Two Property to investigate the potential for soil contaminants associated with the APECs identified in the Phase One ESA. Seven of the advanced boreholes were instrumented with a monitoring well in accordance with O. Reg. 903 for the purpose of monitoring hydrogeological conditions and groundwater quality on-Site.
- Collected soil samples at regular intervals within each borehole.
- Field screened soil samples for visual/olfactory evidence of impacts as well as for petroleum-derived vapours in soil headspace using a combustible gas indicator (CGI) calibrated to hexane and VOC-derived vapours in soil headspace using a photoionization detector (PID).
- Submitted a minimum of one "worst case" soil sample from each borehole for chemical analysis of:
    - PHCs F1-F4;
    - VOCs;
    - PAHs;
    - ABNs;
    - PCBs;
    - Chlorophenols;

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  - Metals; and/or
  - Inorganics.
- Developed each of the newly-installed monitoring wells and redeveloped three previously-installed monitoring wells prior to the collection of groundwater samples;
- Submitted one representative groundwater sample from each of the newly-installed monitoring wells and three previously-installed monitoring well for the chemical analysis of the following parameters:
  - PHCs F1-F4;
  - VOCs;
  - PAHs;
  - ABNs;
  - Chlorophenols; and
  - Metals.
- Submitted three duplicate soil samples and three duplicate groundwater samples for chemical analysis of the above-noted parameters for quality assurance/quality control (QA/QC) purposes;
- Submitted one trip blank for the groundwater sampling program for the chemical analysis of VOCs and PHCs F1 for QA/QC purposes;
- Submitted four representative soil samples for the laboratory analysis of pH in order to confirm the appropriate MECP Site Condition Standards. In addition, as part of the 2018 Pinchin Phase II ESA, Pinchin submitted a representative soil sample for the laboratory analysis of grain size and five representative soil samples for the laboratory analysis of pH in order to confirm the appropriate MECP Site Condition Standards;
- Conducted groundwater monitoring at each of the newly-installed groundwater monitoring wells and three previously-installed groundwater monitoring wells by measuring depth to groundwater from both top of casing and ground surface reference points, and assessing the presence/absence of non-aqueous phase liquid (NAPL), using an oil/water interface probe;
- Retained an Ontario Land Surveyor (OLS) to survey the location and geodetic elevations of the newly-installed monitoring wells as well as the previously-installed monitoring wells;

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- Compared the soil and groundwater analytical results to the applicable criteria stipulated in the *Table 3 Standards;* and
- Prepared a report (this report) documenting the findings of the Phase Two ESA which meets the reporting requirements listed in *Schedule E* and *Table 1 – Mandatory Requirements for Phase Two Environmental Site Assessment Reports* of O. Reg. 153/04.

4.2 Media Investigated

The scope of work for this Phase Two ESA was prepared to address the APECs and corresponding media at the Phase Two Property as identified through completion of the Phase One ESA.

The media of concern for the Phase Two ESA were soil and groundwater. Pinchin included the assessment of groundwater as part of the Phase Two ESA to investigate groundwater quality in relation to the current and historical industrial operations and associated ASTs and USTs, a private fuel outlet and potential subsurface contamination migrating from off-Site PCAs. Note that due to the historical industrial land use at the Phase Two Property, the Phase Two Property is an enhanced investigation property requiring mandatory sampling and analysis of groundwater. Pinchin did not conduct sediment sampling as part of this Phase Two ESA as there are no surface water bodies and, therefore no sources of sediment, present on-Site.

For assessing the soil at the Phase Two Property for the presence of COPCs, a total of 16 boreholes were advanced at the Phase Two Property for the purpose of collecting soil samples. Select “worst case” samples collected from each of the boreholes were submitted for laboratory analysis of the COPCs.

For assessing the groundwater at the Phase Two Property for the presence of COPCs, groundwater monitoring wells were installed in seven of 16 boreholes completed at the Phase Two Property to permit the collection of groundwater samples, including one monitoring well installed for vertical delineation of groundwater impacts identified during the initial series of monitoring wells. Groundwater samples, comprising samples collected from each of the newly installed monitoring wells that contained groundwater as well as three previously installed monitoring wells were submitted to the analytical laboratory for analysis of the COPCs.

4.3 Phase One Conceptual Site Model

A conceptual site model (CSM) has been created to provide a summary of the findings of the Phase One ESA. The Phase One CSM is summarized in Figures 1 through 6 which illustrate the following features within the Phase One Study Area, where present:

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

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- Areas of natural significance located in whole or in part within the Phase One Study Area;
- Drinking water wells located at the Phase One Property;
- Land use of adjacent properties;
- Roads within the Phase One Study Area;
- PCAs within the Phase One Study Area, including the locations of tanks; and
- APECs at the Phase One Property.

The following provides a narrative summary of the Phase One CSM:

- The Phase One Property is an irregular-shaped parcel of land approximately 5.00 acres (2.02 hectares) in size, located approximately 30 m south of Tremblay Road, between Pickering Place and Avenue L, in the City of Ottawa. The Phase One Property was historically developed with six industrial buildings (Site Buildings A to F) and was utilized for industrial purposes (i.e., cleaning product manufacturing) since its inferred initial development in approximately 1913. However, the Site Buildings were demolished in late 2023 in preparation for Site redevelopment;
- No water bodies were identified within the Phase One Study Area. The nearest water body is the Rideau River, which is located approximately 900 m west of the Phase One Property;
- No areas of natural significance were identified within the Phase One Study Area;
- No drinking water wells were located on the Phase One Property;
- The adjacent and surrounding properties consist of vacant, residential, commercial, and light industrial land uses. The adjacent properties located north of the Phase One Property consist of a parking lot and Tremblay Road; the adjacent properties located south of the Phase One Property consist of a parking lot, commercial/light industrial buildings and vacant undeveloped land; the adjacent properties located east of the Phase One Property consist of Avenue L and Belfast Road; and the adjacent property located west of the Phase One Property consists of Pickering Place;
- A total of 20 PCAs were identified within the Phase One Study Area, consisting of 11 PCAs at the Phase One Property and nine PCAs within the Phase One Study Area, outside of the Phase One Property. Given the distance from the PCAs to the Phase One Property, their downgradient or transgradient locations relative to the inferred groundwater flow direction in the Phase One Study Area and/or the nature of operations and potential contaminants related to these operations, a total of seven off-Site PCAs are not considered to result in APECs at the Phase One Property. All other PCAs identified

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within the Phase One Study Area represent APECs at the Phase One Property. Figure 6 provides a detailed summary of the APECs and associated PCAs and COPCs;

- Underground utilities at the Phase One Property previously provided potable water, natural gas, electrical, telephone, cable, and sewer services to the Site Buildings. However, following building demolition, no underground utilities were anticipated to remain on-Site. Plans were not available to confirm the depths of these former utilities but they are estimated to be located approximately 2 to 3 mbgs. The known depth to groundwater at the Phase One Property is approximately 1.5 to 2.3 mbgs, which coincides with the approximate depth of the utilities. As such, it is possible that the utility corridors may act as preferential pathways for contaminant distribution and transport in the event that shallow subsurface contaminants exist at the Phase One Property;
- The Phase One Property and the surrounding properties located within the Phase One Study Area are located within alluvial deposits consisting of stratified gravel, sand, silt, and clay. Bedrock is expected to consist of sandstone, shale, dolostone, and siltstone. The topography is considered to be mainly flat to rolling low local relief with dry surface water drainage conditions. During previous on-Site environmental investigations, the soil stratigraphy was observed to consist of fill material comprised of sand and gravel to an approximate depth of 3.0 mbgs. Native subsurface material underlying the fill material was observed to generally consist of silt, clay and silty clay that extended to the maximum borehole completion depth of 7.0 mbgs. Moist to wet soil conditions were generally observed between approximately 1.5 and 2.3 mbgs; and
- The Phase One Property is relatively flat with little relief. The area surrounding the Phase One Property slopes gradually to the north. Local groundwater flow is inferred to be to the west, based on the location of the Rideau River. Regional groundwater flow is inferred to be to the northwest towards the Ottawa River.

4.4 Deviations from Sampling and Analysis Plan

No notable constraints and limitations with respect to the SAP were documented during the field activities, and as such Pinchin has conducted the Phase Two ESA in a manner generally consistent with the SAP provided in Appendix B-2.

4.5 Impediments

Pinchin had full access to the Phase Two Property throughout the completion of the Phase Two ESA.

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5.0 INVESTIGATION METHOD

5.1 General

The Phase Two ESA field work was conducted in accordance with Pinchin's standard operating procedures (SOPs) as provided in the SAP, which have been developed in accordance with the procedures and protocols provided in the MECP document entitled "*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*", dated December 1996, in the Association of Professional Geoscientists of Ontario document entitled *"Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)"*, dated April 2011, and in O. Reg. 153/04.

In addition, Pinchin's SOP for groundwater sampling using low-flow purging and sampling procedures follows the United States Environmental Protection Agency Region I document entitled *"Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells"* dated January 19, 2010 (Low Flow Sampling Protocol).

No deviations from Pinchin's SOPs occurred during the Phase Two ESA.

5.2 Drilling and Excavating

Pinchin retained Strata to advance a total of 16 boreholes (BH201 through MW216) at the Phase Two Property between May 14 and 17, 2021 to investigate the potential presence of COPCs associated with the APECs identified in the Phase One ESA. Seven of the advanced boreholes (MW208, MW210, MW211, MW212, MW214, MW215, and MW216) were completed as monitoring wells in accordance with O. Reg. 903 for the purpose of monitoring hydrogeological conditions and groundwater quality on-Site. The boreholes were drilled to a maximum depth of 3.66 mbgs using a Geoprobe 7822DT™ drill rig. Upon completion of the drilling and monitoring well installations, Strata completed and filed a Water Well Record with the MECP for the well cluster in accordance with O. Reg. 903.

The locations of the boreholes and monitoring wells are provided on Figure 7. Section 6.10.2 includes a table summarizing the boreholes and monitoring wells completed to investigate each of the APECs. A description of the subsurface stratigraphy encountered during the drilling program is documented in the borehole logs included in Appendix C. Well completion details and elevation data are provided in Table 4 and on the borehole logs provided in Appendix C.

Measures taken to minimize the potential for cross-contamination during the borehole drilling program included:

- The use of dedicated, disposable PVC soil sample liners for soil sample collection during direct-push drilling;

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- The use of dedicated, pre-cleaned augers for each borehole location;
- The extraction of soil samples from the interior of the sampling device (where possible), rather than from areas in contact with the sampler walls;
- The cleaning of all non-dedicated drilling and soil sampling equipment (i.e., spatulas used for sample collection) before initial use and between sample and borehole locations; and
- The use of dedicated and disposable nitrile gloves for all soil sample handling.

Soil samples were collected at continuous intervals during direct-push drilling at a general frequency of one soil sample for every 0.75 metres drilled.

No excavating activities (e.g., test pitting) were completed as part of the Phase Two ESA.

5.3 Soil Sampling

Soil samples were collected in the boreholes at continuous intervals using 3.8 or 5.1 centimetre (cm) inner diameter (ID) direct push soil samplers with dedicated single-use sample liners.

Discrete soil samples were collected from the dedicated sample liners using a stainless-steel spatula. Dedicated and disposable nitrile gloves were worn during the collection of each soil sample. A portion of each sample was placed in a resealable plastic bag for field screening and a portion was containerized in laboratory-supplied glass sampling jars. Following sample collection, the sample jars were placed into dedicated coolers with ice for storage pending transport to Bureau Veritas Laboratories (BV Labs) in Mississauga, Ontario. Formal chain of custody records were maintained between Pinchin and the staff at BV Labs.

Subsurface soil conditions were logged on-Site by Pinchin personnel at the time of borehole drilling. Based on the soil samples recovered during the borehole drilling program, the soil stratigraphy at the drilling locations generally consists of fill material comprised of sand and gravel, and trace silt with organic material and occasional brick, glass debris, shingles, plastic, wood or sand, to a maximum depth of approximately 1.22 mbgs, followed by silty clay and clayey silt that extended to the maximum investigation depth of 3.66 mbgs. Moist to wet soil conditions were generally observed at depths greater than 1.52 mbgs.

No odours or staining were observed in the soil samples collected during the borehole drilling program, with the exception of soil sample with the exception of soil sample SS1 collected at borehole BH206 at a depth of 0.15 to 1.22 mbgs which exhibited black staining.

A detailed description of the subsurface stratigraphy encountered during the borehole drilling program is documented in the borehole logs included in Appendix C.

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5.4 Field Screening Measurements

Soil samples were collected at each of the sampling intervals during the drilling activities and analyzed in the field for VOC-derived and petroleum-derived vapour concentrations in soil headspace with an RKI Eagle 2™ equipped with a PID and a CGI operated in methane elimination mode. The soil samples collected for field-screening purposes were placed in resealable plastic bags. The plastic bags were stored in a warm environment for a minimum of five minutes and agitated in order to release organic vapours within the soil pore space prior to analysis with the PID and CGI.

Based on a review of the operator's manual, the RKI Eagle 2™ PID has an accuracy/precision of up to 0.1 parts per million (ppm). The PID was calibrated prior to field use by the equipment supplier, Maxim Environmental & Safety (Maxim) according to Maxim's standard operating procedures. In addition, the PID calibration was tested at the beginning of each day of drilling and test pitting activities (beginning on the second day of drilling) against a Maxim-provided isobutylene gas standard with a concentration of 100 ppm. The gas standard was stored in a gas cylinder and delivered to the PID via a regulator valve. An in-field re-calibration of the PID was conducted (using the gas standard in accordance with the operator's manual instructions) if the calibration check indicated that the PID's calibration had drifted by more than +/- 10%.

Based on a review of the operator's manual, the RKI Eagle 2™ has an accuracy/precision of up to +/- 25 ppm, or +/- 5% of the reading (whichever is greater). The CGI was calibrated prior to field use by Maxim according to Maxim's standard operating procedures. In addition, the CGI calibration was tested at the beginning of each day of drilling activities (beginning on the second day of drilling) against a Maxim-provided hexane gas standard with a concentration of 1,650 ppm. The gas standard was stored in a gas cylinder and delivered to the CGI via a regulator valve. An in-field re-calibration of the CGI was conducted (using the gas standard in accordance with the operator's manual instructions) if the calibration check indicated that the CGI's calibration had drifted by more than +/- 10%.

In general, the soil samples with the highest measured vapour concentrations (i.e., "worst case") from a given borehole were submitted for laboratory analysis. Sample depth and visual and olfactory observations of potential contaminants were also used in conjunction with the vapour concentrations in making the final selection of "worst case" soil samples for laboratory analysis.

5.5 Groundwater Monitoring Well Installation

Following soil sampling, Strata installed a groundwater monitoring well in boreholes MW208, MW210, MW211, MW213, MW214, MW215 and MW216, under the full-time monitoring of a Pinchin field representative.

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The monitoring wells were constructed with 51-millimetre (2-inch) or 32-millimetre (1.25-inch) ID flush-threaded schedule 40 polyvinyl chloride (PVC) risers followed by a 3.1 metre length of No. 10 slot PVC screen. Each well screen was sealed at the bottom using a threaded cap and each riser was sealed at the top with a lockable J-plug cap. Silica sand was placed around and above the screened interval to form a filter pack around the well screen. A layer of bentonite was placed above the silica sand and was extended to just below the ground surface. A 10.2 cm ID Schedule 40 PVC outer casing, approximately 15.2 cm in length, was installed in each well around the top of the riser and into the top of the bentonite seal. A bentonite seal was then placed between the riser and outer casing. A protective flush-mount cover was installed at the ground surface over each riser pipe and outer casing and cemented in place.

All monitoring wells were installed in accordance with O. Reg. 903. The monitoring well construction details are provided in Table 4 and on the borehole logs in Appendix C. Upon completion of the monitoring well installations, Strata completed and filed a Water Well Record with the MECP for the well clusters for both the initial and delineation wells.

No additional soil sampling or groundwater sampling was completed during the well installations.

The monitoring wells were developed on May 26 and 27, 2021 in accordance with Pinchin's SOP for well development by removing a minimum of three to a maximum of seven standing water column volumes using a dedicated inertial pumps comprised of Waterra polyethylene tubing and foot valves. The well development activities were completed a minimum of 24 hours prior to the groundwater sampling activities.

Measures taken to minimize the potential for cross-contamination during well installation and well development included the following:

- The use of dedicated and disposable nitrile gloves for handling well materials during well installation and during well development; and
- The use of dedicated inertial pumps for each well.

5.6 Groundwater Field Measurements of Water Quality Parameters

Water quality parameters were measured during the low-flow purging and sampling procedure completed on June 1 and June 2, 2021 at monitoring wells MW-9, MW-10, MW-11, MW-14A, MW208, MW210, MW211, MW213, MW214, MW215 and MW216.

Measurements of the water quality parameters oxidation-reduction potential, dissolved oxygen, temperature, specific conductance, pH and turbidity were made during purging using a flow-through cell and a Horiba U-52™ water quality meter (Horiba Water Quality Meter). The Horiba Water Quality Meter

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was calibrated prior to use by the equipment supplier (Maxim) in accordance with the manufacturer's specifications and again prior to purging.

Field-measured parameters were recorded from the Horiba Water Quality Meter at regular intervals in order to determine stabilized groundwater geochemical conditions and hence representative groundwater sampling conditions, in general accordance with the criteria stipulated in the Low Flow Sampling Protocol.

It should be noted that representative groundwater sampling conditions were determined by Pinchin personnel utilizing the field parameter stabilization criteria noted within the Low Flow Sampling Protocol as well as additional factors including total purge time and purge volume.

5.7 Groundwater Sampling

All monitoring wells installed by Pinchin as part of the Phase Two ESA and four existing monitoring wells (i.e., MW-9, MW-10, MW-11, MW-14A installed by Pinchin) were sampled. The monitoring wells were sampled a minimum of 24 hours after the completion of well development activities (see Section 5.5). All monitoring wells were sampled in accordance with the Low Flow Sampling Protocol as described below.

Well purging was completed using a Geotech™ submersible bladder pump and Geotech™ controller powered by a 12-Volt battery. Compressed air was delivered to the bladder pump unit via 47-millimetre (3/16-inch) ID polyethylene tubing. Groundwater was returned to the surface from the bladder pump via dedicated 0.64-cm (1/4-inch) ID polyethylene tubing. A Horiba Water Quality Meter connected to a flow-through cell was used to monitor water quality parameters during groundwater purging to assess whether water quality parameter stabilization was achieved prior to sample collection. The flow rate of the bladder pump was adjusted to minimize drawdown of the water table and the introduction of sediment into the samples.

Once field parameter stabilization was achieved, groundwater samples were collected at each well using the bladder pump and dedicated polyethylene tubing by pumping groundwater directly into new laboratory-supplied sample bottles at a pumping rate of less than 0.5 litres per minute.

Groundwater samples for metals analyses were field-filtered prior to preservation using dedicated 0.45 micron in-line filters. As appropriate, laboratory sample bottles were pre-filled by BV Labs with preservatives intended to preserve the collected groundwater samples prior to analysis.

Following sample collection, the sample bottles were placed into dedicated coolers with ice for storage pending transport to BV Labs. Formal chain of custody records were maintained between Pinchin and the staff at BV Labs.

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5.8 Sediment Sampling

Sediment sampling was not completed as part of this Phase Two ESA.

5.9 Analytical Testing

All collected soil and groundwater samples were delivered to BV Labs for analysis. BV Labs is an independent laboratory accredited by the Canadian Association for Laboratory Accreditation. Formal chain of custody records of the sample submissions were maintained between Pinchin and the staff at BV Labs. BV Labs conducted the laboratory analysis in accordance with the MECP document entitled *"Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act"* dated March 9, 2004 and revised on July 1, 2011 (*Analytical Protocol)*.

5.10 Residue Management Procedures

Soil cuttings generated by the borehole drilling program were containerized in two 205-L drums that were stored adjacent to the southeast boundary of the Phase Two Property.

One composite soil sample (representative of the excess soil cuttings generated by the borehole drilling program) collected from the boreholes was submitted for the laboratory analysis of the leachate concentrations of inorganics, VOCs, PCBs and benzo(a)pyrene in accordance with the Toxicity Characteristic Leachate Procedure (TCLP) analysis as per Ontario Regulation 347/90 (O. Reg. 347/90) in order to characterize the soil cuttings for off-Site disposal purposes. The TCLP analytical results are provided in Appendix D, which illustrate that the excess soil cuttings are classified as non-hazardous waste in accordance with O. Reg. 347/90.

Excess water produced during well purging activities and excess fluids produced during equipment cleaning was containerized in one 205-L drum stored adjacent to the southeast boundary of the Phase Two Property.

5.11 Elevation Surveying

On July 20, 2021, Annis, O'Sullivan, Vollebekk (AOV), an OLS, surveyed the horizontal positioning and the vertical elevation of each of the on-Site monitoring wells locations relative to the elevation of a local geodetic benchmark. The geodetic elevations were derived by AOV from GPS observations and are referred to the CGVD28 geodetic datum. This geodetic reference was used to establish a local survey benchmark, which was the brass cap of the vertical control monument located northwest of the Phase Two Property boundary (referenced at 64.53 mamsl).

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A summary of the well elevation survey data is provided in Table 4. A plan of survey of the Phase Two Property showing the locations and elevations of each monitoring well and borehole, as provided by AOV, is attached in Appendix A.

5.12 Quality Assurance and Quality Control Measures

The QA/QC protocols that were followed during borehole drilling and soil and groundwater sampling so that representative samples were obtained are described in the following subsections.

5.12.1 Sample Containers, Preservation, Labelling, Handling and Custody of Samples

Soil and groundwater samples were containerized within laboratory-prepared sample containers in accordance with the *Analytical Protocol*.

The following soil sample containers and preservatives were used:

- VOCs and PHCs F1: 40 millilitre (mL) glass vials with septum-lids, pre-charged with methanol preservative; and
- PHCs F2-F4, PAHs, metals, inorganics, pH and grain size: 120 or 250 mL unpreserved clear glass wide-mouth jars with a Teflon™–lined lid.

The following groundwater sample containers and preservatives were used:

- VOCs and PHCs F1: 40 mL clear glass vials with septum-lids, pre-charged with sodium bisulphate preservative;
- PHCs F2-F4: 250 mL amber glass bottles with Teflon™–lined lids, pre-charged with sodium bisulphate preservative;
- PAHs: 250 mL unpreserved amber glass bottles with Teflon™–lined lids;
- Inorganics: 500 mL unpreserved high density polyethylene (HDPE) bottles;
- Metals (excluding hexavalent chromium and mercury): 125 mL acid-rinsed HDPE bottles, pre-charged with nitric acid preservative;
- Hexavalent chromium: 125 mL acid-rinsed HDPE bottles, pre-charged with ammonium sulphate/ammonium hydroxide preservative; and
- Mercury: 125 mL clear glass bottles with Teflon™–lined lids, pre-charged with hydrochloric acid preservative.

Groundwater samples submitted for metals analyses (including hexavalent chromium and mercury) were field-filtered using dedicated 0.45 micron filters.

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Trip blank water samples for VOC parameter analysis were provided by BV Labs in 40 mL clear glass vials filled with VOC-free water.

Each soil, groundwater and QA/QC sample was labelled with a unique sample identifier along with the company name, sampling date, Pinchin project number and analysis required.

Each sample was placed in a cooler on ice immediately upon collection and prior to submission to BV Labs for analysis. Formal chain of custody records of the sample submissions were maintained between Pinchin and the staff at BV Labs.

5.12.2 Equipment Cleaning Procedures

Dedicated, single-use PVC sample liners were used for each soil sample collected, which precluded the need for drilling equipment cleaning during soil sample collection. Equipment utilized in soil sample collection and handling (i.e., spatulas used to remove soil from the sample liners) was cleaned with a solution of Alconox™ detergent and potable water followed by a distilled water rinse prior to initial use and between samples.

During groundwater sampling activities, the Geotech™ bladder pump used for purging and sampling was cleaned before initial use and between well locations by flushing with a solution of Alconox™ detergent and potable water followed by flushing with distilled water. New bladders were also installed in the pump before initial use and between well locations. During groundwater monitoring activities, the oil/water interface probe used to measure water levels and the YSI Water Quality Meter used for groundwater field parameter measurements were cleaned with a solution of Alconox™ detergent and potable water followed by a distilled water rinse prior to initial use and between well locations.

5.12.3 Field Quality Control Measures

A total of three field duplicate soil samples were collected by Pinchin during the Phase Two ESA for analysis of one or more of the COPCs. The frequency of field duplicate soil sample analysis complied with the requirement that one field duplicate soil sample is analyzed for every ten regular soil samples submitted for analysis of the COPCs. The soil sample field duplicate pairings and corresponding analytical schedules are summarized as follows:

- Soil sample “MW210 SS-3” and its corresponding field duplicate “DUP-1” were submitted for laboratory analysis of PHCs, VOCs, PAHs, ABNs and chlorophenols;
- Soil sample “BH206 SS-1” and its corresponding field duplicate “DUP-2” were submitted for laboratory analysis of PCBs; and
- Soil sample “BH204 SS-1” and its corresponding field duplicate “DUP-3” were submitted for laboratory analysis of PHCs, BTEX, PAHs, metals and inorganics.

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A total of three field duplicate groundwater samples were collected by Pinchin during the Phase Two ESA for analysis of the COPCs. The frequency of field duplicate groundwater sample analysis complied with the requirement that one field duplicate groundwater sample is analyzed for every ten regular groundwater samples submitted for analysis of the COPCs. The groundwater sample field duplicate pairings and corresponding analytical schedules are summarized as follows:

- Groundwater sample “MW-14A” and its corresponding field duplicate “DUP-4” were submitted for laboratory analysis of metals;
- Groundwater sample “MW-9” and its corresponding field duplicate “DUP-5” were submitted for laboratory analysis of PHCs, VOCs and PAHs; and
- Groundwater sample “MW208” and its corresponding field duplicate “DUP-6” were submitted for laboratory analysis of ABNs and chlorophenols.

One laboratory-prepared trip blanks was analyzed for VOC parameters to comply with the requirement that one trip blank is analyzed for each submission of groundwater samples for VOC parameter analysis.

The calibrations of the RKI Eagle 2™ PID/CGI used for field screening and the Horiba Water Quality Meter used for water quality parameter measurements were checked by the equipment supplier (Maxim) prior to use in the field by Pinchin.

Maxim completed the calibration checks in accordance with the equipment manufacturers’ specifications and/or Maxim’s SOPs. As described in Section 5.4, calibration checks, and recalibration (if required) were completed daily for the RKI Eagle 2™ PID/CGI during the drilling program.

5.12.4 QA/QC Sampling Program Deviations

There were no deviations from the QA/QC sampling program outlined in the SAP.

6.0 REVIEW AND EVALUATION

6.1 Geology

Based on the stratigraphic information obtained from the soil samples recovered during the drilling activities completed as part of the Phase Two ESA, the asphalt-covered and granular ground surface at the Phase Two Property is underlain by granular fill materials comprised of sand and gravel, and trace silt with organic material and occasional brick, glass debris, shingles, plastic, wood or sand, to a maximum depth of approximately 1.22 mbgs. The native soil underlying the surficial soil fill materials is generally comprised of silty clay and clayey silt that extended to the maximum investigation depth of 3.66 mbgs. The water table is located within this unit at a depth of approximately 1 to 3 mbgs and this uppermost water bearing unit represents an unconfined aquifer.

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The following table provides a summary of the primary geologic units observed during borehole drilling at the Phase Two Property:

Geologic Unit	Estimated Thickness (metres)	Top Elevation (mamsl)	Bottom Elevation (mamsl)	Properties
Sand and Gravel (Granular Fill)	0 – 1.2	62.4 – 65.9 (Ground Surface)	61.2 – 64.7	Unsaturated
Unconfined Aquifer (Silty clay/clayey silt)	1.2 – 3.7	61.2 – 64.7	58.7 – 62.2	Saturated below 1 mbgs (water table)

The overburden/bedrock interface was not encountered during the drilling activities. Based on geological data published by the Ontario Geological Survey, bedrock is expected to consist of sandstone, shale, dolostone, and siltstone. Based on previous subsurface investigations completed at the Phase Two Property, the overburden thickness at the Phase Two Property is expected to be approximately 6 to 7 metres.

The APECs investigated by the Phase Two ESA identified surface soil impacted with PHCs, VOCs, PAHs and metal/inorganic parameters. Impacts on groundwater quality, if any, from these contaminants would be expected in the shallow groundwater zone and, as such, the water table groundwater quality (unconfined aquifer within the silty clay clayey silt) was assessed during the Phase Two ESA.

No groundwater impacts were identified in the unconfined aquifer and, as such, assessment of groundwater quality at deeper depths was not required.

6.2 Groundwater Elevations and Flow Direction

The wells screens in each monitoring well installed by Pinchin were of an inconsistent length (i.e., between 1.8 and 2.7 metres). All monitoring wells were installed at depth intervals intended to investigate groundwater quality in the shallow groundwater zone within the unconfined aquifer. Given that PHCs were a COPC for groundwater at the Phase Two Property the monitoring wells were installed at the Phase Two Property such that the well screens intersected the water table.

The following summarizes the findings of a groundwater monitoring event completed on June 1 and 2, 2021:

- The depths to groundwater measured within the monitoring wells installed within the unconfined aquifer ranged from 0.67 mbgs at monitoring well MW211 to 2.36 mbgs at monitoring well MW-11;

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- The calculated groundwater elevations within the groundwater monitoring ranged between 61.57 mamsl at MW208 and 64.11 mamsl at MW216; and
- No NAPL thicknesses were measured with the oil/water interface probe in any of the groundwater monitoring wells.

The following summarizes the findings of a groundwater monitoring event completed on July 20, 2021:

- The depths to groundwater measured within the monitoring wells installed within the unconfined aquifer ranged from 0.68 mbgs at monitoring well MW-8 to 2.27 mbgs at monitoring well MW212;
- The calculated groundwater elevations within the groundwater monitoring ranged between 61.09 mamsl at MW-1 and 64.05 mamsl at MW216; and
- No NAPL thicknesses were measured with the oil/water interface probe in any of the groundwater monitoring wells.

The surveyed ground surface elevations adjacent to each well and measured distance between the ground surface elevations and tops of the well riser pipes. The measured depths to groundwater and calculated groundwater elevation measurements, and the results of NAPL monitoring for all monitoring events are summarized in Tables 5 and 6, respectively.

The inferred groundwater flow vectors and calculated groundwater elevation contour intervals at the Phase Two Property based on depth to groundwater measurements on July 20, 2021, are shown on Figure 8.

All depth to groundwater measurements in each of the on-Site groundwater monitoring wells were used to calculate the groundwater elevation contours. As shown on Figure 8, the calculated groundwater surface elevation contours indicate that groundwater flow across the Phase Two Property is generally to the west-northwest in both the unconfined and confined aquifer.

The groundwater depth data collected over the course of both monitoring events indicate that the temporal fluctuations in the unconfined water table appear to be minimal.

Interaction of the groundwater at the Phase Two Property with buried utilities is possible given that the water table in some areas of the Phase Two Property is located at approximate depths of between 1 and 2 mbgs and the utilities are known to be located at depths ranging from approximately 2 to 3 mbgs. However, given that no groundwater impacts were identified at the Phase Two Property, preferential migration of contaminants along utilities is not considered to be a concern.

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6.3 Groundwater Hydraulic Gradients

6.3.1 Groundwater Horizontal Hydraulic Gradients

The plotted groundwater surface elevation contours were utilized to estimate horizontal hydraulic gradient values for the unconfined aquifer at the Phase Two Property. The horizontal hydraulic gradient can be estimated by dividing the difference between two groundwater contour values by the distance between the two plotted groundwater contours. The distance between select groundwater contours can be determined by drawing a straight line which transects each contour in a perpendicular fashion on the plotted groundwater contour figure.

By utilizing groundwater contours which are closely spaced, the estimated maximum horizontal hydraulic gradient for the unconfined aquifer at the Phase Two Property is approximately 0.022.

By utilizing groundwater contours which are more distantly spaced, the estimated minimum horizontal gradient for the unconfined aquifer at the Phase Two Property is approximately 0.024.

By utilizing the two most distant (highest and lowest) groundwater elevation contours plotted at the Phase Two Property, a normalized horizontal hydraulic gradient value for the unconfined aquifer at the Phase Two Property using groundwater surface elevations measured on July 20, 2021, was estimated to be approximately 0.024.

6.3.2 Groundwater Vertical Hydraulic Gradients

Nested monitoring wells were not installed at the Phase Two Property as part of the Phase Two ESA. As such, vertical hydraulic gradients were not determined.

6.4 Fine-Medium Soil Texture

Four soil samples collected from the boreholes advanced at the Phase Two Property were submitted for 75 micron single-sieve grain size analysis. The soil samples selected for analysis were considered to be representative of the two primary stratigraphic units observed at the borehole locations, which were a sand and gravel fill unit and a native silty clay till unit. As indicated in Table 3, one soil sample (BH3-S1) that was representative of the sand and gravel fill (subgrade) material present beneath the asphalt at the Site was classified as coarse-textured (98.6% coarse-grained soil) and the three representative samples (BH6-SS4, BH8-S3 and BH2-S5) of the native silty clay till present beneath the surficial fill material at the Phase Two Property were classified as medium and fine-textured (25.0%, 46.5% and 10.6% coarse-grained soil, respectively).

Based on these grain size analysis results and the observed stratigraphy at the borehole locations at the Phase Two Property, it is the QP's opinion that over two-thirds of the overburden at the Phase Two Property is medium and fine-textured as defined by O. Reg. 153/04. Therefore, the soil at the Phase Two

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Property was interpreted to be medium and fine-textured for the purpose of determining the MECP Site Condition Standards applicable to the Phase Two Property.

6.5 Soil Field Screening

Soil vapour headspace concentrations measured in the soil samples collected as part of this Phase Two ESA are presented in the borehole logs. Soil vapour headspace values measured with the CGI in methane elimination mode ranged from 0 ppm by volume (ppm_v) in several of the collected soil samples to a maximum of 60 ppm_v in soil sample SS-3 collected from borehole BH209 at a depth of approximately 1.22 to 1.83 mbgs. Soil vapour headspace values measured with the PID ranged from 0.0 ppm_v in several of the collected soil samples to a maximum of 1.0 ppm_v in several of the collected soil samples at various depths.

One most apparent “worst case” soil sample, based on vapour concentrations as well as visual and/or olfactory considerations recovered from each borehole was submitted for laboratory analysis of VOCs, PHCs (F1-F4), PAHs, ABNs, PCBs, chlorophenols and/or metals/inorganics.

6.6 Soil Quality

A total of 16 boreholes were advanced at the Phase Two Property at the locations shown on Figure 7 in order to assess for the presence of subsurface impacts resulting from the APECs identified in the Pinchin Phase One ESA. Select soil samples were collected from each of the advanced boreholes and submitted for laboratory analysis of the COPCs. The soil sample locations, depths and laboratory analyses are summarized in Table 3 and in the borehole logs.

The soil sample analytical results were compared to the *Table 3 Standards* and the following subsections provide a discussion of the findings.

6.6.1 VOCs

The soil sample analytical results for VOCs, along with the corresponding *Table 3 Standards*, are presented in Table 3. As indicated in Table 3, all reported concentrations of VOCs in the soil samples submitted for analysis were below the *Table 3 Standards*, except for the following:

- The concentrations of chlorobenzene (6.3 micrograms per gram [µg/g] vs. the *Table 3 Standard* of 2.7 µg/g) and 1,4-Dichlorobenzene (81 µg/g vs. the *Table 3 Standard* of 0.097 µg/g) reported for soil sample SS-3, collected at borehole BH209 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*;

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- The concentration of 1,4-Dichlorobenzene (0.15 µg/g vs. the *Table 3 Standard* of 0.097 µg/g) reported for soil sample SS-3, collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*; and
- The concentration of 1,4-Dichlorobenzene (0.13 µg/g vs. the *Table 3 Standard* of 0.097 µg/g) reported for soil sample DUP-1 (field duplicate of soil sample SS-3), collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*.

6.6.2 PHCs F1-F4

The soil sample analytical results for PHCs F1-F4, along with the corresponding *Table 3 Standards*, are presented in Table 3. As indicated in Table 3, all reported concentrations of PHCs F1- F4 in the soil samples submitted for analysis were below the *Table 3 Standards*, except for the following:

- The concentrations of PHCs F2 (1,300 µg/g vs. the *Table 3 Standard* of 150 µg/g) and PHCs F3 (15,000 µg/g vs. the *Table 3 Standard* of 1,300 µg/g) reported for soil sample SS-1, collected at borehole BH206 from a depth of 0 to 0.51 mbgs, exceeded the *Table 3 Standards*;
- The concentration of PHCs F3 (1,800 µg/g vs. the *Table 3 Standard* of 1,300 µg/g) reported for soil sample SS-3, collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*; and
- The concentrations of PHCs F2 (230 µg/g vs. the *Table 3 Standard* of 150 µg/g) and PHCs F3 (1,700 µg/g vs. the *Table 3 Standard* of 1,300 µg/g) reported for soil sample DUP-1 (field duplicate of soil sample SS-3), collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*.

6.6.3 PAHs

The soil sample analytical results for PAHs, along with the corresponding *Table 3 Standards*, are presented in Table 3. As indicated in Table 3, all reported concentrations of PAHs in the soil samples submitted for analysis were below the *Table 3 Standards*, except for the following:

- The concentrations of benzo(a)pyrene (0.51 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (1.1 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) reported for soil sample SS-1, collected at borehole BH201 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of anthracene (1.2 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (2.5 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (2.2 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (2.9 µg/g vs. the

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Table 3 Standard of 0.78 µg/g), benzo(k)fluoranthene (1.1 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), dibenzo(a,h)anthracene (0.36 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (6.6 µg/g vs. the *Table 3 Standard* of 0.69 µg/g),and indeno(1,2,3-c,d)pyrene (1.3 µg/g vs. the *Table 3 Standard* of 0.48 µg/g) reported for soil sample SS-1, collected at borehole BH202 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;

- The concentrations of benzo(a)pyrene (0.42 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (0.82 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) reported for soil sample SS-1, collected at borehole BH203 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of benzo(a)pyrene (0.32 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (0.85 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) reported for soil sample SS-1, collected at borehole BH205 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of acenaphthene (60 µg/g vs. the *Table 3 Standard* of 58 µg/g), acenaphthylene (12 µg/g vs. the *Table 3 Standard* of 0.17 µg/g), anthracene (110 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (140 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (99 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (150 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), benzo(ghi)perylene(47 µg/g vs. the *Table 3 Standard* of 7.8 µg/g), benzo(k)fluoranthene (44 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), chrysene (110 µg/g vs. the *Table 3 Standard* of 7.8 µg/g), dibenzo(a,h)anthracene (13 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (410 µg/g vs. the *Table 3 Standard* of 0.69 µg/g), fluorene (93 µg/g vs. the *Table 3 Standard* of 69 µg/g), indeno(1,2,3-c,d)pyrene (53 µg/g vs. the *Table 3 Standard* of 0.48 µg/g), 1- & 2-methylnaphthalene (47 µg/g vs. the *Table 3 Standard* of 0.99 µg/g), naphthalene (48 µg/g vs. the *Table 3 Standard* of 0.75 µg/g), phenanthrene (430 µg/g vs. the *Table 3 Standard* of 7.8 µg/g) and pyrene (300 µg/g vs. the *Table 3 Standard* of 78 µg/g) reported for soil sample SS-1, collected at borehole BH206 from a depth of 0.15 to 0.51 mbgs, exceeded the *Table 3 Standards*; and
- The concentrations of anthracene (6 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (8.6 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (7.1 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (8.6 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), benzo(k)fluoranthene (3 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), dibenzo(a,h)anthracene (0.9 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (23 µg/g vs. the *Table 3 Standard* of 0.69 µg/g), indeno(1,2,3-c,d)pyrene

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(3.9 µg/g vs. the *Table 3 Standard* of 0.48 µg/g) and phenanthrene (430 µg/g vs. the *Table 3 Standard* of 7.8 µg/g) reported for soil sample SS-1, collected at borehole MW214 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*.

6.6.4 Metals and Inorganics

The soil sample analytical results for metals and inorganics parameters, along with the corresponding *Table 3 Standards*, are presented in Table 3. As indicated in Table 3, all reported concentrations of metals and inorganics in the soil samples submitted for analysis were below the *Table 3 Standards*, except for the following:

- The concentration of lead (120 µg/g vs. the *Table 3 Standard* of 120 µg/g) reported for soil sample SS-1 collected at borehole BH202 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- EC (1.8 milliSiemens per centimetre [mS/cm] vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (12 vs. the *Table 3 Standard* of 5) reported for soil sample SS-1 collected at borehole BH203 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- EC (1.1 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (5.6 vs. the *Table 3 Standard* of 5) reported for soil sample SS-1 collected at borehole BH204 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- EC (1.2 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (6.4 vs. the *Table 3 Standard* of 5) reported for soil sample DUP-3 (field duplicated of soil sample SS-1) collected at borehole BH204 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- EC (1.3 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) reported for soil sample SS-1 collected at borehole BH205 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of cadmium (2.1 µg/g vs. the *Table 3 Standard* of 1.2 µg/g), lead (180 µg/g vs. the *Table 3 Standard* of 120 µg/g) and zinc (500 µg/g vs. the *Table 3 Standard* of 340 µg/g) reported for soil sample SS-1 collected at borehole BH206 from a depth of 0.15 to 0.51 mbgs, exceeded the *Table 3 Standards*;
- EC (1.2 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) reported for soil sample SS-1 collected at borehole MW208 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;

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- SAR (13 vs. the *Table 3 Standard* of 5) reported for soil sample SS-1 collected at borehole MW214 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*; and
- The concentrations of cadmium (15 µg/g vs. the *Table 3 Standard* of 1.2 µg/g), copper (400 µg/g vs. the *Table 3 Standard* of 180 µg/g), lead (340 µg/g vs. the *Table 3 Standard* of 120 µg/g), zinc (400 µg/g vs. the *Table 3 Standard* of 340 µg/g), EC (2 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (7.8 vs. the *Table 3 Standard* of 5) reported for soil sample SS-2 collected at borehole BH207 from a depth of 0.51 to 1.22 mbgs, exceeded the *Table 3 Standards*.

It is the opinion of the QP that the elevated EC and SAR values in the soil samples are related to the historical application of road salt on the adjacent roadways (i.e., Avenue K, Avenue L, Pickering Place, Tremblay Road, etc.) during winter conditions. These are municipally-owned streets, which is defined as a "highway" under the Province of Ontario's *Highway Traffic Act*.

Section 48(3) of O. Reg. 153/04 states that if "an applicable site condition standard is exceeded at the property solely because a substance has been used on a highway for the purpose of keeping the highway safe for traffic under conditions of snow or ice or both, as provided for under section 2 of Regulation 339 of the Revised Regulations of Ontario, 1990 (Classes of Contaminants — Exemptions), the applicable site condition standard is deemed not to be exceeded". Therefore, the soil at the Site is considered to meet the *Table 3 Standards* given that the elevated EC and SAR levels in the soil have been attributed to the historical road salt application on the adjacent roadways.

6.6.5 Acids/Bases/Neutral Compounds

The soil analytical results for ABNs, along with the corresponding *Table 3 Standards*, are presented in Table 3. As indicated in Table 3, all reported concentrations of ABNs in the soil samples submitted for analysis were below the *Table 3 Standards.*

6.6.6 Chlorophenols

The soil analytical results for chlorophenols, along with the corresponding *Table 3 Standards*, are presented in Table 3. As indicated in Table 3, all reported concentrations of chlorophenols in the soil samples submitted for analysis were below the *Table 3 Standards.*

6.6.7 General Comments on Soil Quality

The soil sample results show no evidence of chemical or biological transformations of chemical parameters in the subsurface.

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Given that groundwater sampling at the Phase Two Property has not identified any impacts related to VOCs, PHCs F1-F4, PAHs, ABNs, chlorophenols and metals and inorganics parameters (see Section 6.7), there is no evidence that the soil at the Phase Two Property is acting as a contaminant source for the groundwater.

The soil sample analytical results show no evidence of NAPL in the subsurface at the Site. All reported soil sample concentrations either meet the *Table 3 Standards* or are above the *Table 3 Standards* but well below their corresponding free-product thresholds, where applicable. In addition, no evidence of NAPL was observed during borehole drilling.

6.7 Groundwater Quality

Groundwater samples were collected from monitoring wells MW-9, MW-10, MW-11, MW-14A, MW208, MW210, MW211, MW213, MW214, MW215 and MW216 and submitted for analysis of the COPCs to assess for the presence of subsurface impacts within the APECs identified in the Pinchin Phase One ESA and for the delineation of identified impacts. The locations of the monitoring wells are shown on Figure 7. The groundwater sample collection depths and laboratory analysis are summarized in Table 7. All groundwater samples collected for metals analysis were filtered in the field using dedicated, disposable 0.45 micron in-line filters prior to preservation in accordance with the *Analytical Protocol.*

The groundwater sample analytical results were compared to the *Table 3 Standards* and the following subsections provide a discussion of the findings.

6.7.1 VOCs

The groundwater analytical results for VOCs, along with the corresponding *Table 3 Standards*, are presented in Table 7. As indicated in Table 7, all reported concentrations of VOCs in the final groundwater samples submitted for analysis were below the *Table 3 Standards.*

6.7.2 PHCs F1-F4

The groundwater analytical results for PHCs F1-F4, along with the corresponding *Table 3 Standards*, are presented in Table 7. As indicated in Table 7, all reported concentrations of PHCs F1-F4 in the final groundwater samples submitted for analysis met the *Table 3 Standards.*

6.7.3 PAHs

The groundwater analytical results for PAHs, along with the corresponding *Table 3 Standards*, are presented in Table 7. As indicated in Table 7, all reported concentrations of PAHs in the groundwater samples submitted for analysis met the *Table 3 Standards*.

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6.7.4 Metals and Inorganics

The groundwater analytical results for metals and inorganic parameters, along with the corresponding *Table 3 Standards*, are presented in Table 7. As indicated in Table 7, all reported concentrations of metals and inorganics parameters in the groundwater samples submitted for analysis met the *Table 3 Standards*.

6.7.5 Acids/Bases/Neutral Compounds

The groundwater analytical results for ABNs, along with the corresponding *Table 3 Standards*, are presented in Table 7. As indicated in Table 7, all reported concentrations of ABNs in the groundwater samples submitted for analysis were below the *Table 3 Standards.*

6.7.6 Chlorophenols

The groundwater analytical results for chlorophenols, along with the corresponding *Table 3 Standards*, are presented in Table 7. As indicated in Table 7, all reported concentrations of chlorophenols in the groundwater samples submitted for analysis were below the *Table 3 Standards.*

6.7.7 General Comments on Groundwater Quality

The groundwater sample results show no evidence of chemical or biological transformations of chemical parameters in the subsurface.

During the groundwater monitoring activities, no NAPL thicknesses were measured in any of the on-Site monitoring wells.

6.8 Sediment Quality

Sediment sampling was not completed as part of this Phase Two ESA.

6.9 Quality Assurance and Quality Control Results

QA/QC comprises technical activities that are used to measure or assess the effect of errors or variability in sampling and analysis. It may also include specification of acceptance criteria for the data and corrective actions to be taken when they are exceeded. QA/QC also includes checks performed to evaluate laboratory analytical quality, checks designed to assess the combined influence of field sampling and laboratory analysis and checks to specifically evaluate the potential for cross contamination during sampling and sample handling.

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The QA/QC samples collected and submitted for analysis by Pinchin during the Phase Two ESA consisted of the following:

- Field duplicate soil and groundwater samples to assess the suitability of field sampling methods and laboratory performance; and
- A trip blank water sample to assess whether ambient conditions during transport of groundwater sample containers from the analytical laboratory to the Phase Two Property and back to the analytical laboratory may have biased the groundwater sample results with respect to volatile constituents.

In addition to the above, laboratory quality control activities and sample checks employed by BV Labs included:

- Method blanks - where a clean sample is processed simultaneously with and under the same conditions (i.e., using the same reagents and solvents) as the samples being analyzed. These are used to confirm whether the instrument, reagents and solvents used are contaminant free;
- Laboratory duplicates - where two samples obtained from the sample container are analyzed. These are used to evaluate laboratory precision;
- Surrogate spike samples - where a known mass of compound not found in nature (e.g., deuterated compounds such as toluene-d8) but that has similar characteristics to the analyzed compounds is added to a sample at a known concentration. These are used to assess the recovery efficiency;
- Matrix spike samples - where a known mass of target analyte is added to a matrix sample with known concentrations. These are used to evaluate the influence of the matrix on a method's recovery efficiency; and
- Use of standard or certified reference materials - a reference material where the content or concentration has been established to a very high level of certainty (usually by a national regulatory agency). These are used to assess accuracy.

The results of the QA/QC samples are discussed in the following subsections.

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6.9.1 Soil Duplicate Results

During borehole soil sampling activities, a total of three separate soil duplicate sample pairs were submitted for laboratory analysis. The field duplicate samples were collected by vertically splitting the soil cores into two equal halves, with one half collected as the regular sample and the other half collected as the field duplicate sample. The sample pairings and corresponding laboratory analyses are as follows:

- Soil sample “MW210 SS-3” and its corresponding field duplicate “DUP-1” were submitted for laboratory analysis of PHCs, VOCs, PAHs, ABNs and chlorophenols;
- Soil sample “BH206 SS-1” and its corresponding field duplicate “DUP-2” were submitted for laboratory analysis of PCBs; and
- Soil sample “BH204 SS-1” and its corresponding field duplicate “DUP-3” were submitted for laboratory analysis of PHCs, benzene, toluene, ethylbenzene and xylenes (BTEX), PAHs, metals and inorganics.

The quality of the analytical results was evaluated by calculating relative percent differences (RPDs) for the parameters analyzed for the original and field duplicate samples. The RPD for each parameter was calculated using the following equation:

$$\text{RPD} = \frac{(\text{Original Concentration} - \text{Duplicate Concentration}) \text{ X } 100}{(\text{Original Concentration} + \text{Duplicate Concentration})/2}$$

An RPD was not calculated unless the parameter concentration in both the original and duplicate sample had detectable concentrations above the corresponding practical quantitation limit for the parameter, which is equal to five times the lowest laboratory reportable detection limit (RDL).

The calculated RPDs for the original and field duplicate soil samples have been compared to performance standards provided in the *Analytical Protocol.* Pinchin notes that although these performance standards only strictly apply to laboratory duplicate samples, they have been considered suitable for comparison to the field duplicate soil sample results as well.

The calculated RPDs values met the performance standards with the exception of the following:

- The RPD values for soil sample pairing MW210 SS-3/DUP-1, collected from borehole MW210 at a depth of 1.22 to 1.83 mbgs, exceeded the corresponding performance standard of 30% for the analytical results reported for PHCs F2 (RPD of 63%).

The primary cause of the elevated RPD values and discrepancies observed in the analytical results for soil sample pairings BH101 SS1/DUP-1 is inferred to be heterogeneity in the matrix of the fill materials from which the samples were collected. Pinchin notes that fill materials are generally more variable in terms of parameter concentrations in comparison to native, undisturbed soil deposits. As such, the

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observed variances in RPDs for these sample pairings are not expected to reflect deficiencies in sampling or analytical methods. Based on Pinchin's review of the calculated RPD values for the remainder of the collected soil duplicate sample pairings, the level of observed variance in the reported analytical results is considered acceptable for the purpose of meeting the data quality objectives of this Phase Two ESA.

6.9.2 Groundwater Sample Duplicate Results

During groundwater sampling activities, a total of three separate groundwater duplicate sample pairs were submitted for laboratory analysis. The sample pairings and corresponding laboratory analyses are as follows:

- Groundwater sample "MW-14A" and its corresponding field duplicate "DUP-4" were submitted for laboratory analysis of metals;
- Groundwater sample "MW-9" and its corresponding field duplicate "DUP-5" were submitted for laboratory analysis of PHCs, VOCs and PAHs; and
- Groundwater sample "MW208" and its corresponding field duplicate "DUP-6" were submitted for laboratory analysis of ABNs and chlorophenols.

The calculated RPDs for the original and field duplicate groundwater samples have been compared to performance standards provided in the *Analytical Protocol.* Pinchin notes that although these performance standards only strictly apply to laboratory duplicate samples, they have been considered suitable for comparison to the field duplicate groundwater sample results as well.

Each of the calculated RPDs met the corresponding performance standard.

Based on Pinchin's review of the calculated RPD values for the submitted groundwater sample duplicate pairings, the level of observed variance in the reported analytical results is considered acceptable for the purpose of meeting the data quality objectives of this Phase Two ESA.

6.9.3 Groundwater Trip Blank Results

A trip blank sample, consisting of VOC-free water contained within a set of VOC sample vials, was prepared by BV Labs and accompanied the VOC groundwater sample containers during transportation to the Phase Two Property and was stored in the cooler with the VOC groundwater samples in the field and during transportation back to BV Labs. The trip blank sample was submitted to BV Labs for chemical analysis for VOCs during the groundwater sampling activities completed as part of this Phase Two ESA.

As indicated in Table 7, the concentrations of the VOC parameters analyzed in the trip blank sample were below the laboratory RDLs. These findings indicate that ambient conditions during the transportation of the sample containers to and from the Phase Two Property, and during groundwater sampling, did not positively bias the VOCs parameter analytical results for the groundwater samples.

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6.9.4 Deviations from Analytical Protocol

There were no deviations from the holding times, preservation methods, storage requirements and container types specified in the *Analytical Protocol* during the completion of the Phase Two ESA.

6.9.5 Laboratory Certificates of Analysis

Pinchin has reviewed the laboratory Certificates of Analysis provided by BV Labs for the samples submitted during the Phase Two ESA and confirms the following:

- All laboratory Certificates of Analysis contain a complete record of the sample submission and analysis and meet the requirements of Section 47(3) of O. Reg. 153/04;
- A laboratory Certificate of Analysis has been received for each sample submitted for analysis during the Phase Two ESA;
- All laboratory Certificates of Analysis have been included in full in Appendix H; and
- All of the analytical data reported in the Certificates of Analysis have been summarized, in full, in Tables 3 and 7.

6.9.6 Laboratory Comments Regarding Sample Analysis

BV Labs routinely conducts internal QA/QC analyses in order to satisfy regulatory QA/QC requirements. The results of the BV Labs QA/QC analyses for the submitted soil samples are summarized in the laboratory Certificates of Analyses provided in Appendix H. Also included in Appendix H are all correspondences between the laboratory and staff at Pinchin.

The following summarizes comments noted by BV Labs on the laboratory Certificates of Analysis for the submitted soil samples:

- Laboratory Certificates C1D6669 and C1D6657 – Soil weight exceeded the protocol specification of approximately 5 g in the field persevered vial for soil samples BH202 SS-1, BH203 SS-1, BH205 SS-1, MW208 SS-1 and MW214 SS-1. Additional methanol was added to the vial to ensure extraction efficiency. Given that detectable concentrations of F1/BTEX analysis above the RDLs were reported for these samples or the RDLs reported for these soil samples were below the *Table 3 Standards*, there is no impact on the overall interpretation of the analytical data; and
- Laboratory Certificates C1D6669 and C1D6657 – The RDLs for PHCs F2 – F4, PAHs and ABNs in several soil samples were raised as a result of a required sample dilution due to the sample matrices and/or high moisture content. Given that detectable concentrations above the RDLs were reported for these samples or the RDLs reported

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for these soil samples were below the *Table 3 Standards*, there is no impact on the overall interpretation of the analytical data.

The following summarizes comments noted by BV Labs on the laboratory Certificates of Analysis for the submitted groundwater samples:

- Laboratory Certificate C1F2589 – BV Labs indicated that all groundwater sample vials submitted for laboratory analysis of VOCs and PHCs F1 contained visible sediment. Based on Pinchin's field observations, the volume of sediment in the submitted groundwater sample containers was a trace to minor amount. Given that these parameters are volatile constituents and are not expected to sorb to soil particles, the presence of trace to minor amounts sediment in the sample vials is not anticipated to result in significant sample bias. Furthermore, Pinchin notes that all reported concentrations of PHCs F1 for the submitted groundwater samples were below the corresponding *Table 3 Standard*. As such, the presence of sediment does not alter the conclusion that the concentrations of PHCs F1 in the submitted groundwater samples are below the *Table 3 Standards*; and
- Laboratory Certificate C1F2589 – BV Labs indicated that all groundwater sample containers submitted for laboratory analysis of PHCs F2-F4, PAHs and ABNs contained visible sediment that was included in the laboratory extraction. Based on Pinchin's field observations, the volume of sediment in the submitted groundwater sample containers was a trace to minor amount. These parameters have a tendency to sorb to soil particles. As such, the reported concentrations of PHCs F2-F4, PAHs and ABNs in the submitted groundwater samples may be positively biased. However, Pinchin notes that all reported concentrations of PHCs F2-F4 and PAHs for the submitted groundwater samples were below the corresponding *Table 3 Standards*. As such, the presence of sediment does not alter the conclusion that the concentrations of PHCs F2-F4, PAHs and ABNs in the submitted groundwater samples are below the *Table 3 Standards*.

The results of the QA/QC analyses were reviewed by the project staff at BV Labs and observed to be within the laboratory's internal requirements. Pinchin has also reviewed the laboratory Certificates of Analysis and has confirmed that the results of the analyses are acceptable for the purpose of meeting the data quality objectives of this Phase Two ESA.

The following general comments apply to the laboratory Certificates of Analysis received from BV Labs as part of this Phase Two ESA:

- The custody seal was present and intact on all submissions; and

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- The temperatures of the submitted soil and groundwater samples upon receipt ranged from approximately 2 to 8 ºC, with the exception of the sample submission for groundwater samples collected on June 1 and 2, 2021. These samples were collected during June 2020 when high ambient air and ground temperatures were present. The groundwater samples were placed in coolers with ice immediately after sample collection and were delivered to BV Labs within hours of sampling. As such, it is possible that there was insufficient time between sample collection and delivery to the laboratory for the groundwater samples to be cooled to temperatures below 8 ºC. Furthermore, the groundwater temperatures measured were marginally over 8 ºC at 8.7 ºC and 9 ºC, respectively. Given these factors, it is the QP's opinion that the elevated sample temperatures reported by BV Labs for these samples did not bias the analytical results.

6.9.7 QA/QC Sample Summary

The overall evaluation of the QA/QC sample results indicates no issues with respect to field collection methods and laboratory performance, and no apparent bias due to ambient conditions at the Phase Two Property and during transportation of the sample containers/samples to and from the analytical laboratory.

As such, it is the QP's opinion that the soil and groundwater analytical data obtained during the Phase Two ESA are representative of actual Site conditions and are appropriate for meeting the objective of assessing whether the soil and groundwater at the Phase Two Property meets the applicable MECP Site Condition Standards.

6.10 Phase Two Conceptual Site Model

The Phase Two Property consists of the municipal addresses of 25 Pickering Place and 1330 Avenue K in Ottawa, Ontario. The Phase Two Property is 5.00 acres (2.02 hectares) in size and is bounded by Avenue L to the east, commercial parking space and Tremblay Road to the north, Pickering Place to the west and parking spaces and commercial land uses to the south. A key map showing the Phase Two Property location is provided as Figure 1.

A Phase One CSM was created during the Pinchin Phase One ESA in order to provide a detailed visualization of the APECs which could occur on, in, under, or affecting the Phase Two Property. The Phase One CSM is summarized in Figures 1 through 6, which illustrate the following features within the Phase One Study Area, where present:

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

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- Areas of natural significance located in whole or in part within the Phase One Study Area;
- Drinking water wells located at the Phase One Property;
- Land use of adjacent properties;
- Roads within the Phase One Study Area;
- PCAs within the Phase One Study Area, including the locations of tanks; and
- APECs at the Phase One Property.

The following subsections expand on the Phase One CSM with the information collected during the completion of the Phase Two ESA.

6.10.1 Potentially Contaminating Activities

The Phase One ESA identified a total of 20 PCAs within the Phase One Study Area. These PCAs consisted of 11 PCAs at the Phase Two Property and nine PCAs within the Phase One Study Area, outside of the Phase Two Property. Each of the on-Site PCAs and two of the off-Site PCAs were interpreted as potentially affecting the environmental condition of the subsurface media on, in or under the Phase Two Property and were considered to result in APECs. Identified on-Site and off-Site PCAs are summarized in Table 2 and their locations are shown on Figure 4.

6.10.2 Areas of Potential Environmental Concern

Table 1 summarizes the APECs identified at the Phase Two Property, as well as their respective PCAs, COPCs and the media that could potentially be impacted. APECs at the Phase Two Property are illustrated on Figure 6. The Phase Two ESA included an assessment of soil and groundwater quality within each of the APECs.

The following table summarizes the boreholes and monitoring wells completed to investigate each of the APECs:

APEC	Investigation Location
APEC-1	MW-1, MW-8, MW-11, BH203, BH204, MW208, BH209, MW210, MW211, MW212
APEC-2	MW-10, MW210, MW211
APEC-3	BH206*
APEC-4	BH-7*, MW-9
APEC-5	BH-7*, MW-9
APEC-6	MW-5, BH-6*
APEC-7	MW214, MW215

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APEC	Investigation Location
APEC-8	MW208, BH209*
APEC-9	MW-7, BH-8
APEC-10	MW-2, MW-14, MW-15, MW-16, MW101, MW102, MW103
APEC-11	BH201*, BH202*, BH203*, BH204*, BH205*, BH207*, MW208*, BH209*, MW212*, MW214*
APEC-12	MW-11
APEC-13	Not applicable – see below
APEC-14	MW101**, MW102**, MW103**
APEC-15	MW101**, MW102**, MW103**

* Soil sampling only

** Groundwater sampling only

In addition, the Phase Two ESA relied on soil and groundwater data obtained during previous subsurface investigations completed by Pinchin in 2018 and 2020.

A summary of the findings for each of the APECs is provided below.

APEC-1

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including fire insurance plans (FIPs) and city directories identified Dustbane Products Ltd., a manufacturer of various cleaning products, occupying the Phase One Property since the 1920s. The manufacturing activities stopped in 2023, and the Site Buildings were subsequently demolished in preparation for redevelopment. In addition, approximately 278,440 kg of various hazardous wastes were generated by this on-Site operation from 1988 to 2018, of which the majority were detergents/soaps and various oil-related wastes (i.e., waste oils and lubricants, emulsified oils, light fuels, etc.) and approximately 5,818 kg were halogenated solvents. The subsurface investigation of APEC-1 completed by Pinchin as part of the Phase Two ESA included new boreholes/monitoring wells MW-1, MW-8, MW-11, BH203, BH204, MW208, BH209, MW210, MW211, MW212, and confirmed the presence of the following impacts in soil:

- Chlorobenzene and 1,4-dichlorobenzene collected at borehole BH209 from a depth of 1.22 to 1.83 mbgs, exceeding the *Table 3 Standards*; and
- 1,4-dichlorobenzene and PHCs F3 collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeding the *Table 3 Standards*.

These soil impacts were interpreted to be related to the former on-Site chemical storage and processing (APEC-1), the associated wastewater drainage trench and pits (APEC-2), and/or the former ASTs (sizes

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and contents unknown) adjacent to the north and west elevations of former Site Building A (APEC-8) since these boreholes were advanced within or adjacent to the former chemical blending building on-Site. The groundwater samples submitted from the monitoring wells completed within APEC-1 met the *Table 3 Standards*, and as such, no groundwater impacts attributed to the chemical manufacturing were identified during the Phase Two ESA. The remedial excavation conducted on-Site in 2024 and 2025 addressed the PHC and VOC impacts in soil, as described below.

APEC-2

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including FIPs and city directories identified Dustbane Products Ltd., a manufacturer of various cleaning products, occupying the Phase One Property since the 1920s. As part of the cleaning chemical manufacturing process described above, a drainage trench and two associated concrete pits designed to collect wastewater were located in the northern portion of the former chemical blending building.

The subsurface investigation of APEC-2 completed by Pinchin as part of the Phase Two ESA included boreholes/monitoring wells MW-10, BH209, MW210 and MW211 and confirmed the presence of the following impacts in soil:

- Chlorobenzene and 1,4-dichlorobenzene collected at borehole BH209 from a depth of 1.22 to 1.83 mbgs, exceeding the *Table 3 Standards*; and
- 1,4-dichlorobenzene and PHCs F3 collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeding the *Table 3 Standards*.

These soil impacts were interpreted to be related to the former on-Site chemical storage and processing since these boreholes were advanced within or adjacent to the former chemical blending building on-Site (APEC-1), the associated wastewater drainage trench and pits (APEC-2) and/or the former ASTs (sizes and contents unknown) adjacent to the north and west elevations of former Site Building A (APEC-8). The groundwater samples submitted from the monitoring wells completed within APEC-1 met the *Table 3 Standards*. The remedial excavation conducted on-Site in 2024 and 2025 addressed the PHC and VOC impacts in soil, as described below.

APEC-3

During the Phase One Site reconnaissance, a pad-mounted transformer was identified on the central portion of the Phase Two Property, near the foot of Avenue K. The subsurface investigation of APEC-3 completed by Pinchin as part of the Phase Two ESA included new borehole BH206. Concentrations of PHCs F2 and F3, various metals and PAH parameters reported for soil sample SS-1, collected at borehole BH206 from a depth of 0.15 to 0.51 mbgs, exceeded the *Table 3 Standards*. Although the PHC impacts may be attributed to the transformer on-Site, no PCBs were detected in the collected soil sample,

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and as such, the various PAH and metal exceedances were attributed to poor quality fill material in the adjacent parking lot area (APEC-5). The remedial excavation conducted on-Site in 2024 and 2025 addressed the PHC, PAH and metal impacts in soil, as described below.

APEC-4

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including FIPs and previous environmental reports identified the presence of a former 2,000 gallon oil tank associated with a former “oil house” on the south-central portion of the Phase Two Property. The subsurface investigation of APEC-4 completed by Pinchin as part of the Phase Two ESA included boreholes/monitoring wells BH-7 and MW-9. Soil and groundwater samples collected from these boreholes/monitoring wells met the *Table 3 Standards*.

APEC-5

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including FIPs and previous environmental reports identified the presence of a former 10,000 gallon “nuso” oil tank associated with a former “oil house” on the south-central portion of the Phase Two Property. The subsurface investigation of APEC-5 completed by Pinchin as part of the Phase Two ESA included boreholes/monitoring wells BH-7 and MW-9. Soil and groundwater samples collected from these boreholes/monitoring wells met the *Table 3 Standards*.

APEC-6

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including FIPs and previous environmental reports identified the presence of a former 3,790 litre varsol UST adjacent to the east elevation of former Site Building D, on the east portion of the Phase Two Property. The subsurface investigation of APEC-6 completed by Pinchin as part of the Phase Two ESA included boreholes/monitoring wells MW-5 and BH-6. Soil and groundwater samples collected from these boreholes/monitoring wells met the *Table 3 Standards*.

APEC-7

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including FIPs and previous environmental reports identified the presence of a former varsol UST (size unknown) adjacent to the north elevation of former Site Building D, on the east portion of the Phase Two Property. The subsurface investigation of APEC-7 completed by Pinchin as part of the Phase Two ESA included borehole/monitoring well MW215. Soil and groundwater samples collected from this borehole/monitoring well met the *Table 3 Standards*.

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APEC-8

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including FIPs and previous environmental reports identified the presence of a former ASTs (sizes and contents unknown) adjacent to the north and west elevations of former Site Building A, on the central portion of the Phase Two Property. The subsurface investigation of APEC-8 completed by Pinchin as part of the Phase Two ESA included boreholes/monitoring wells MW208 and BH209, and confirmed the presence of the following impacts in soil:

- Concentrations of chlorobenzene and 1,4-dichlorobenzene reported for soil sample SS-3, collected at borehole BH209 from a depth of 1.22 to 1.83 mbgs, exceeding the *Table 3 Standards*; and
- EC reported for soil sample SS-1 collected at borehole MW208 from a depth of 0.15 to 0.75 mbgs, exceeding the *Table 3 Standards*.

The soil impacts at borehole BH209 were interpreted to be related to the former on-Site chemical storage and processing since these boreholes were advanced within or adjacent to the former chemical blending building on-Site (APEC-1), the associated wastewater drainage trench and pits (APEC-2) and/or the former ASTs (sizes and contents unknown) adjacent to the north and west elevations of former Site Building A (APEC-8). The EC exceedance identified at borehole MW208 was attributed to the application of road salt on-Site (APEC-13). The groundwater samples submitted from the monitoring wells completed within APEC-8 met the *Table 3 Standards*. The remedial excavation conducted on-Site in 2024 and 2025 addressed the VOC impacts in soil, as described below.

APEC-9

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including FIPs and previous environmental reports identified the presence of a former varsol UST (size unknown) between former Site Buildings A and E, on the south portion of the Phase Two Property. The subsurface investigation of APEC-9 completed by Pinchin as part of the Phase Two ESA included boreholes/monitoring wells MW-7 and BH-8. Soil and groundwater samples collected from these boreholes/monitoring wells met the *Table 3 Standards*.

APEC-10

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including FIPs and previous environmental reports identified the presence of various gasoline and diesel USTs associated with a former private retail fuel outlet (PFO) near the east property boundary of the Phase Two Property. The former PFO was historically investigated by Pinchin between 2018 and 2020, as summarized below.

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An initial Phase II ESA was completed at the Phase Two Property by Pinchin between June 20 and 25, 2018, and consisted of the advancement of 11 boreholes, nine of which were completed as groundwater monitoring wells. Select “worst case” soil samples collected during the borehole drilling program were submitted for laboratory analysis of PHCs (F1-F4), VOCs and PAHs. Groundwater samples collected from the newly installed groundwater monitoring wells were submitted for laboratory analysis of PHCs (F1-F4), VOCs and PAHs.

The reported concentrations of PHCs (F1-F4), VOCs and PAHs in the soil samples submitted for analysis met the *Table 3 Standard*s, with the following exceptions:

- Soil sample SS-4 collected at borehole BH-3 (east-northeast portion of the Phase Two Property), which had concentrations of ethylbenzene, xylenes, PHCs (F1) and PHCs (F2) that exceeded the *Table 3 Standards*; and
- Soil sample SS-1 collected at borehole MW-4 (east-northeast portion of the Phase One Property), which had concentrations of benzene, ethylbenzene, toluene, xylenes, hexane, PHCs (F1) and PHCs (F2) that exceeded the *Table 3 Standards.*

The reported concentrations in the groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, and PAHs satisfied their respective *Table 3 Standards*, with the following exception:

- Groundwater sample collected at monitoring well MW-4 (east-northeast portion of the Phase One Property) which had concentrations of PHCs (F1 and F2), and benzene and xylenes that exceeded the *Table 3 Standards.*

The findings of the initial Phase II ESA identified PHC-impacted soil and groundwater at the Phase One Property, inferred to be from the former PFO fueling operations.

A supplemental Phase II ESA was completed at the Phase Two Property by Pinchin between January 8 and 10, 2020, and consisted of the advancement of 20 additional boreholes, three of which were completed as groundwater monitoring wells. Select “worst case” soil samples collected during the borehole drilling program were submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs and/or metals. Groundwater samples collected from the newly installed groundwater monitoring wells were submitted for laboratory analysis of PHCs (F1-F4), VOCs and PAHs. The reported concentrations of PHCs (F1-F4), VOCs, PAHs and/or metals in the soil samples submitted for analysis met the *Table 3 Standards*.

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The reported concentrations of PHCs (F1-F4), VOCs and PAHs in the groundwater samples submitted for analysis met the *Table 3 Standards*, with the following exceptions:

- The groundwater sample collected from monitoring well MW-14 (east-central portion of the Phase One Property, near the Phase One Property boundary), which had concentrations of PHCs (F2) that exceeded the *Table 3 Standards*; and
- The groundwater sample collected from monitoring well MW-15 (east-central portion of the Phase One Property, near the Phase One Property boundary), which had concentrations of PHCs (F1) and (F2) that exceeded the *Table 3 Standards*.

The findings of this Phase II ESA and the previous 2018 Pinchin Phase II ESA identified petroleum-impacted soil and/or groundwater located within the vicinity of the former private fueling station along the east boundary of the Phase Two Property. As such, Pinchin recommended that a remedial excavation and groundwater treatment program be completed in the area of impacts.

The excavation activities, which consisted of asphalt removal, overburden stockpiling, soil excavation, transportation of excavated material, and backfilling were conducted by Triangle Pump Service Limited at the Site between June 16, 2020 and June 26, 2020.

Following the excavation of soil with known impacts, soil samples were collected from the floor and sidewalls at the final limits of the excavation for field screening. Based on the results of field screening, a total of eight “worst case” soil samples were submitted for laboratory analysis of PHCs (F1-F4) and VOCs to assess soil quality at the excavation limits. In addition, two samples of suspected clean soil segregated during the excavation and three samples of imported granular material were also collected and submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs and metals to assess the environmental suitability of these materials for use as backfill at the Site.

Reported concentrations in the verification soil samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs and metals satisfied the *Table 3 Standards*.

Based on the findings of the VSSP completed in conjunction with the Remedial Excavation, it is Pinchin’s opinion that no further remedial work was required in relation to the previously identified soil impacts at the Site. Pinchin recommended that post-remedial monitoring wells be installed to evaluate the previously identified groundwater impacts in relation to the source removal.

Pinchin completed a Groundwater Monitoring and Sampling Program to further assess groundwater impacts following the completion of the Remedial Excavation and VSSP completed by Pinchin at the Site. The Groundwater Monitoring and Sampling Program was conducted by Pinchin on August 19, 2020 through April 5, 2021. The groundwater samples collected from these monitoring wells were submitted for laboratory analysis of PHCs (F1-F4) and BTEX. Reported concentrations in the final groundwater

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samples submitted for analysis of BTEX and PHCs (F1-F4) met the *Table 3 Standards*. Although the samples collected from MW14 exceeded the *Table 3 Standards*, these samples were considered to be biased-high based on sediment within the sample and were not considered to be representative of the true groundwater formation. MW14A was installed adjacent to MW14 as a replacement and two groundwater sampling events on March 11, 2021 and April 6, 2021 satisfied the *Table 3 Standards*.

Based on the findings of the Groundwater Monitoring and Sampling Program, it was Pinchin's opinion that no further residual groundwater impacts remain from the former USTs and PFO operations on this portion of the Site.

APEC-11

Previous environmental investigations identified the presence of fill material across the Phase Two Property outside of the former Site Buildings. The presence of fill material represented a PCA that required further investigation as part of the Phase Two ESA. Soil samples collected from boreholes BH201, BH202, BH203, BH204, BH205, BH207, MW208, BH209, MW212 and MW214 assessed potential impacts from the fill material, which confirmed the presence of the following impacts in soil exceeding the *Table 3 Standards*:

- Chlorobenzene and 1,4-dichlorobenzene collected at borehole BH209 from a depth of 1.22 to 1.83 mbgs;
- Benzo(a)pyrene and fluoranthene reported for soil sample SS-1, collected at borehole BH201 from a depth of 0.15 to 0.75 mbgs;
- Lead and various PAH parameters reported for soil sample SS-1, collected at borehole BH202 from a depth of 0.15 to 0.75 mbgs;
- Various PAH parameters as well as EC and SAR reported for soil sample SS-1 collected at borehole BH203 from a depth of 0.15 to 0.75 mbgs;
- Various PAH parameters as well as EC and SAR reported for soil sample SS-1, collected at borehole BH205 from a depth of 0.15 to 0.75 mbgs;
- PHCs F2 and F3, as well as various metal and PAH reported for soil sample SS-1, collected at borehole BH206 from a depth of 0.15 to 0.51 mbgs;
- Various PAH parameters as well as SAR reported for soil sample SS-1, collected at borehole MW214 from a depth of 0.15 to 0.75 mbgs;
- EC and SAR reported for soil sample SS-1 collected at borehole BH204 from a depth of 0.15 to 0.75 mbgs;

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- EC reported for soil sample SS-1 collected at borehole MW208 from a depth of 0.15 to 0.75 mbgs; and
- Various metal parameters as well as EC and SAR reported for soil sample SS-2 collected at borehole BH207 from a depth of 0.51 to 1.22 mbgs.

The various PAH and metal impacts identified in shallow soil samples collected across the Phase Two Property were attributed to the poor quality fill underlying the former parking areas on-Site (APEC-11). The various EC and SAR exceedances were attributed to the application of road salt on-Site (APEC-13).

APEC-12

Historical records reviewed as part of the 2020 Pinchin Phase One ESA including previous environmental reports identified the presence of a former diesel AST (size unknown) in the northeast portion of the Site Building E, on the east portion of the Phase Two Property. The subsurface investigation of APEC-12 completed by Pinchin as part of the Phase Two ESA included borehole/monitoring well MW-11. Soil and groundwater samples collected from this borehole/monitoring well met the *Table 3 Standards*.

APEC-13

The Phase Two Property previously had asphalt-paved parking lots and access routes across the Site. It is suspected that salt had historically been applied to the parking lot for safety reasons during winter conditions to remove snow and ice, which represents a PCA at the Phase Two Property. However, it is the opinion of the QP_{ESA} supervising the Phase One and Two ESAs that, although salt-related parameters such as SAR and EC in soil, and sodium and chloride in groundwater may be present at concentrations exceeding the applicable site condition standards (i.e., *Table 3 Standards*) on-Site, the exemption provided in Section 49.1 of O. Reg. 153/04 can been applied. As such, the above-noted parameters in soil and groundwater would be deemed to meet the *Table 3 Standards* and were not further assessed as part of this Phase Two ESA. Specifically, no soil samples were submitted for laboratory analysis of EC/SAR, and no groundwater samples were submitted for laboratory analysis of sodium or chloride.

APEC-14 and APEC-15

The Phase One ESA identified the following off-Site PCAs that were considered to represent APECs along the southern boundary of the Phase Two Property:

- An automotive repair/servicing facility located at 1333 Avenue L, approximately 10 metres east and upgradient of the Phase Two Property; and
- An RFO located at 1333 Avenue L, approximately 10 metres east and upgradient of the Phase Two Property.

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Groundwater samples collected from monitoring wells MW101, MW102 and MW103 installed during the Phase Two ESA were used to assess APEC-14 and APEC-15 during the Phase Two ESA. Groundwater samples collected from these monitoring wells were below the *Table 3 Standards*.

6.10.3 Subsurface Structures and Utilities

Underground utilities were likely decommissioned and are no longer anticipated on the Phase Two Property due to the recent building demolition on-Site in preparation for Site redevelopment.

Interaction of the groundwater at the Phase Two Property with former buried utilities is possible given that the water table in some areas of the Phase Two Property is located at approximate depths of between 1 and 3 mbgs and the utilities are known to be located at depths ranging from approximately 2 to 3 mbgs. However, given that no groundwater impacts were identified at the Phase Two Property, preferential migration of contaminants along utilities is not considered to be a concern.

6.10.4 Physical Setting

Based on the work completed as part of this Phase Two ESA, the following subsections provide a summary of the physical setting of the Phase Two Property.

Stratigraphy

The observed stratigraphy at the borehole locations completed for the Phase Two ESA generally consisted of granular fill (sand and gravel with some silty sand) to a maximum depth of approximately 1.2 mbgs. The native soil stratigraphy underlying the surficial fill materials was generally comprised of silty clay/clayey silt extending to the maximum investigation depth of 3.7 mbgs, which is interpreted to represent an unconfined aquifer. The borehole locations are shown on Figure 7. Cross-sections summarizing the subsurface geological conditions at the time of the Phase Two ESA have been provided as Figures 8A to 8C.

Hydrogeological Characteristics

The groundwater flow direction in the unconfined aquifer at the Phase Two Property is inferred to be towards the west/northwest (see Figure 9A).

Using the grain size distribution plots from two representative soil samples (BH8 from 1.5 to 2.1 mbgs and BH2 from 3.1 to 3.7 mbgs), the Kozeny-Carmen Formula was used to estimate the hydraulic conductivity of the shallow silty clay aquifer on-Site, as described below:

$$K_{KC} = C_{KC}\frac{g}{\nu}\frac{n^3}{(1-n)^2}D_{10}^2$$

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where KKC is hydraulic conductivity (m/s), CKC is an empirical coefficient equal to 1/180 (dimensionless), g is gravitational acceleration (m/s²), v is kinematic viscosity of water (m²/s) and n is total porosity (dimensionless). D10 is measured in m, and is the grain diameter for which 10% of the sample is finer (90% is coarser).

The hydraulic conductivity of the unconfined silty clay aquifer at the Phase Two Property was estimated to be between 2.3 x 10^{-8} m/s and 1.4 x 10^{-7} m/s, which is within the expected range between 10^{-7} to 10^{-10} m/s, based on published values for silt and clay (Freeze and Cherry, 1979). The groundwater flow velocity is estimated to be approximately 0.04 to 0.23 metres/year.

The horizontal hydraulic gradient within the unconfined aquifer at the Phase Two Property was estimated to be 0.024.

Depth to Bedrock

Bedrock was not encountered at any of the borehole locations up to the maximum depth drilled of approximately 3.7 mbgs and based on the available water well records, bedrock depth at the Phase Two Property is approximately 6 to 7 mbgs.

Depth to Water Table

The water table at the Phase Two Property is located primarily within the shallow silty clay/clayey silt unit that has been interpreted to be an unconfined aquifer. The depth to the water table across the Phase Two Property ranges from approximately 1 to 3 mbgs.

Applicability of Section 35 of O. Reg 153/04 – Non-Potable Site Condition Standards

Site Condition Standards for non-potable groundwater use have been applied to the Phase Two Property given that the following conditions specified in Section 35 of O. Reg. 153/04 have been met:

- The Phase Two Property and all properties within 250 metres of the Phase Two Property are supplied by a municipal drinking water system.
- The Phase Two Property is not located within a well head protection area or other designation identified by the City of Ottawa for the protection of groundwater.
- There are no wells located at the Phase Two Property or within the Phase One Study Area that are used or intended for use as a water source for human consumption or agriculture.
- The City of Ottawa has been advised in writing of the intention to use non-potable Site Condition Standards at the Phase Two Property and a response was not received within 30 days of submitting the notification.

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Applicability of Section 41 of O. Reg 153/04 – Environmentally Sensitive Area

Section 41 of O. Reg. 153/04 states that a property is classified as an “environmentally sensitive area” if the property is within an area of natural significance, the property includes or is adjacent to an area of natural significance or part of such an area, the property includes land that is within 30 m of an area of natural significance or part of such an area, the soil at the property has a pH value for surface soil less than 5 or greater than 9 or the soil at the property has a pH value for subsurface soil less than 5 or greater than 11.

The Phase Two Property is not located in or adjacent to, nor does it contain land within 30 m of, an area of natural significance. Furthermore, the pH values measured in the submitted soil samples were within the limits for non-sensitive sites. As such, the Phase Two Property is not an environmentally sensitive area as defined by Section 41 of O. Reg. 153/04.

Applicability of Section 43.1 of O. Reg 153/04 – Shallow Soil Property and Proximity to a Water Body

Section 43.1 of O. Reg. 153/04 states that a property is classified as a “shallow soil property” if one-third or more of the area consists of soil less than 2 m in depth.

Based on a review of the depths to bedrock and the spatial distribution of the borehole locations, the depth to bedrock is interpreted to be greater than 2.0 mbgs over more than one-third of the Phase Two Property. As such, the Phase Two Property is not a shallow soil property as defined by Section 43.1 of O. Reg. 153/04.

As per Section 43.1 of O. Reg. 153/04, the proximity of the Phase Two Property to a water body must be considered when selecting the appropriate Site Condition Standards.

The Phase Two Property does not include all or part of a water body, it is not adjacent to a water body and it does not include land within 30 m of a water body. As such, Site Condition Standards for use within 30 m of a water body were not applied.

Soil Imported to Phase Two Property

No soil was imported to the Phase Two Property during completion of the Phase Two ESA.

Proposed Buildings and Other Structures

Pinchin understands that the future use of the Phase Two Property will be for a residential development that is still in the planning stages and the configuration of the Phase Two Property, including proposed building locations, has yet to be confirmed.

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6.10.5 Applicable Site Condition Standards

Based on the grain size analysis of representative soil samples collected during the Phase Two ESA and the observed stratigraphy at the borehole locations, Pinchin concluded that over two-thirds of the overburden at the Phase Two Property is medium and fine-textured as defined by O. Reg. 153/04 and Site Condition Standards for coarse-textured soil were not applied.

Based on the information obtained from the Phase One and Two ESAs, the appropriate Site Condition Standards for the Phase Two Property are:

- "Table 3: Full Depth Generic Site Condition Standards for Use in a Non-Potable Ground Water Condition", provided in the Ontario Ministry of the Environment, Conservation and Parks (MECP) document entitled, "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*" dated April 15, 2011 (*Table 3 Standards*) for:
  - Medium/fine-textured soils; and
  - Residential/parkland/institutional property use.

6.10.6 Contaminants Exceeding Applicable Site Condition Standards in Soil

VOCs

Soil with concentrations of VOCs exceeding the *Table 3 Standards* were identified at the following boreholes:

- Chlorobenzene and 1,4-dichlorobenzene collected at borehole BH209 from a depth of 1.22 to 1.83 mbgs;
- 1,4-dichlorobenzene reported for soil sample SS-3, collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs; and
- 1,4-dichlorobenzene reported for soil sample DUP-1 (field duplicate of soil sample SS-3), collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs.

Borehole MW210 was located adjacent to a former pit of the chemical blending building, and as such the VOC-impacted soil in this area may be related to this former manufacturing activity (APEC-1). Borehole BH209 was located in the parking lot area immediately north of the former chemical blending building, and as such the VOC-impacted soil could be related to the operations conducted in these areas (APEC-1). The results of the remediation excavation indicated that the VOC-impacted soils extended across the majority of the former chemical blending building and south to the southern property boundary, extending to maximum depths of approximately 2.1 mbgs.

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The lateral and vertical distribution of VOC concentrations in soil at the Phase Two Property prior to remedial activities is shown in Figure 10A, and Figures 10B and 10C, respectively.

A number of factors can govern the transport and fate of contaminants in subsurface environments, including dilution, adsorption, advection and dispersion, volatilization, geochemical dynamics, and chemical or biological transformation (microbial attenuation). The soil with concentrations of VOCs exceeding the *Table 3 Standards* is located at depths of between approximately 1.2 to 2.1 mbgs (within the groundwater bearing zone). However, these soils were remediated and no longer serve as a future source of groundwater contaminants.

PHCs

Soil with concentrations of PHCs exceeding the *Table 3 Standards* were identified at the following boreholes:

- PHCs F2 and F3 reported for soil sample SS-1, collected at borehole BH206 from a depth of 0 to 0.51 mbgs;
- PHCs F3 reported for soil sample SS-3, collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs; and
- PHCs F2 and PHCs F3 reported for soil sample DUP-1 (field duplicate of soil sample SS-3), collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs.

Borehole MW210 was located adjacent to a former pit of the chemical blending building, and as such the PHC-impacted soil in this area may be related to this former manufacturing activity (APEC-1). Borehole BH206 was located in the parking lot area between the former equipment assembly building and the former chemical blending building, and as such the PHC-impacted soil could be related to the operations conducted in these areas (APEC-1). The results of the remediation excavation indicated that the PHC-impacted soils extended across the majority of the parking lot area where borehole BH206 was located and south to the southern property boundary, extending to maximum depths of approximately 2.1 mbgs.

The lateral and vertical distribution of PHC concentrations in soil at the Phase Two Property prior to remedial activities is shown in Figure 11A, and Figures 11B and 11C, respectively.

A number of factors can govern the transport and fate of contaminants in subsurface environments, including dilution, adsorption, advection and dispersion, volatilization, geochemical dynamics, and chemical or biological transformation (microbial attenuation). The soil with concentrations of PHCs F2/F3 exceeding the *Table 3 Standards* is located at depths of between approximately 1.2 to 2.1 mbgs (within the groundwater bearing zone). However, these soils were remediated and no longer serve as a future source of groundwater contaminants.

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PAHs

Soil with concentrations of various PAHs exceeding the *Table 3 Standards* were identified at the following boreholes:

- Soil sample SS-1, collected at borehole BH201 from a depth of 0.15 to 0.75 mbgs;
- Soil sample SS-1, collected at borehole BH202 from a depth of 0.15 to 0.75 mbgs;
- Soil sample SS-1, collected at borehole BH203 from a depth of 0.15 to 0.75 mbgs;
- Soil sample SS-1, collected at borehole BH205 from a depth of 0.15 to 0.75 mbgs;
- Soil sample SS-1, collected at borehole BH206 from a depth of 0.15 to 0.51 mbgs; and
- Soil sample SS-1, collected at borehole MW214 from a depth of 0.15 to 0.75 mbgs.

These boreholes (BH201, BH202, BH203, BH205, BH206 and MW214) were situated in parking lot areas across the Phase Two Property. The PAH-impacted soil in this area may be related to poor quality fill materials in the parking lot areas (APEC-2). The analytical results for deeper soil samples collected at the Phase Two Property during remediation indicated that the maximum depth of the PAH-impacted soil was no deeper than approximately 1.0 mbgs. The lateral and vertical distribution of PAH concentrations in soil at the Phase Two Property prior to remedial activities is shown in Figure 12A, and Figures 12B and 12C, respectively.

Due to their semi-volatile and organic nature, a number of factors can govern the transport and fate of contaminants in subsurface environments, including dilution, adsorption, advection and dispersion, volatilization, geochemical dynamics, and chemical or biological transformation (microbial attenuation). The soil with concentrations of PAHs exceeding the *Table 3 Standards* is located at depths of between approximately 0.15 to 0.75 mbgs (above the groundwater bearing zone) and as such were not anticipated to serve as a source of groundwater contaminants.

Metals

Various metal concentrations reported in shallow soil samples collected at boreholes BH202 (lead), BH206 (cadmium, lead and zinc) and BH207 (cadmium, copper, lead and zinc) during the Phase Two ESA at a depths ranging between 0.15 and 1.22 mbgs exceeded the corresponding *Table 3 Standards*. These boreholes (BH202, BH206 and BH207) were situated in parking lot areas across the Phase Two Property. The metal-impacted soil in this area may be related to poor quality fill materials in the parking lot areas (APEC-2). The analytical results for deeper soil samples collected at the Phase Two Property during remediation indicated that the maximum depth of the metal-impacted soil was no deeper than approximately 1.5 mbgs. The lateral and vertical distribution of lead concentrations in soil at the Phase Two Property prior to remedial activities is shown in Figure 11A, and Figures 11B and 11C, respectively.

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The metal concentrations reported in the each of the groundwater samples submitted during the Phase Two ESA were below the *Table 3 Standards*, indicating that the metal-impacted soil at the Phase Two Property did not adversely impact groundwater quality in the unconfined aquifer. This conclusion is supported by the fact that, in neutral pH subsurface environments, these heavy metals (lead, cadmium, zinc) are generally resistant to leaching from soil to groundwater. As described below in the Remedial Activities section, the metal-impacted soil was removed during site redevelopment and no longer represents a potential source of groundwater impacts.

EC and SAR

Elevated EC and SAR levels were observed in the soil samples collected from parking lot areas adjacent to roadways across the Phase Two Property. It is the opinion of the QP that the elevated levels of EC and SAR in soil at these borehole locations is related to the application of road salt. As such, it is QP's opinion that the road salt contaminant exemption in O. Reg. 153/04 is applicable in this situation and EC and SAR was not considered contaminants at the Phase Two Property.

6.10.7 Contaminants Exceeding Applicable Site Condition Standards in Groundwater

All groundwater samples collected during the Phase Two ESA met the applicable *Table 3 Standards* for the parameters analyzed.

6.10.8 Meteorological and Climatic Conditions

The groundwater table was observed to fluctuate slightly in elevation (i.e., a maximum difference of 25 centimetres) over two rounds of groundwater monitoring completed on June 1, 2021 and July 20, 2021. The minor temporal groundwater table fluctuations are expected to have had a minimal effect on contaminant distribution throughout the Phase Two Property. Also, prior to redevelopment, the Phase Two Property was either covered by pavement or by the former Site Buildings, which is expected to have limited the influence of meteorological and climatic conditions on contaminant distribution and migration in the subsurface. As such, it is the QP's opinion that meteorological or climatic conditions have not influenced the distribution or migration of the contaminants at the Phase Two Property.

6.10.9 Soil Vapour Intrusion

Following soil remediation, no volatile parameters were identified at concentrations exceeding the *Table 3 Standards*. In addition, the Phase Two Property is currently vacant. As such, soil vapour intrusion into buildings at the Phase Two Property is not considered a concern.

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6.10.10 Remedial Activities

The identified impacted soil material identified during the Phase Two ESA was excavated in its entirety and removed from the Phase Two Property. Verification soil samples collected from the base and sidewalls of the excavations had parameter concentrations below the *Table 3 Standards*.

A full description of the remedial activities is provided in Appendix E.

6.10.11 Contaminant Exposure Assessment

Potential exposure pathways and receptors were evaluated for the Phase Two Property. The exposure pathways and receptors which are considered are as follows:

- GW1 – The protection of drinking water for humans;
- GW2 – The protection of indoor air sourced from vapours originating from groundwater for humans in an overlying building;
- GW3 – The protection of the aquatic environment in the nearest surface water body;
- S1 – High-frequency, high-intensity, human health direct contact exposure scenario equivalent to that of surface soil at a residential/parkland/institutional or agricultural/other site (children and pregnant women are present);
- S2 – Lower-frequency and lower-intensity, human health direct contact exposure scenario without children present and used at commercial/industrial/community sites or at depth at residential/parkland/institutional or agricultural/other sites;
- S3 – Low-frequency, high-intensity, human health direct contact exposure scenario without children present that is protective of a worker digging in the soil. It is used for subsurface soils at commercial/industrial/community sites;
- S-IA – The protection of indoor air sourced from vapours originating from soil for humans in an overlying building;
- S-OA – The protection of outdoor air sourced from vapours originating from soil, using a volatilization model combined with atmospheric mixing for humans;
- S-Odour – Soil concentrations that will not result in unacceptable odours from direct sniffing of the soil;
- S-GW1 – The protection of drinking water for humans via leaching of soil;
- S-GW3 – The protection of the aquatic environment in the nearest surface water body via leaching of soil;

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- Plants and Soil Organisms (P&O) – Soil values protective of direct contact exposure scenario for plants and soil-dwelling organisms; and
- Mammals and Birds (M&B) – Soil values protective of direct contact exposure scenario for some representative mammalian and avian species.

In considering the current and proposed land use scenarios and future redevelopment activities (i.e., digging, construction, etc.), all exposure pathway/receptor scenarios are considered applicable, with the exception of:

- S-GW1 and GW1 pathways, as the Phase Two Property is in a non-potable water scenario, rendering the potable groundwater pathways as incomplete; and
- S-IA, S-OA and GW2 pathways, as there are no volatile contaminants of concern remaining on-Site, rendering the vapour inhalation pathways as incomplete.

The human health CSM is presented on Figure 18, and the ecological CSM is presented on Figure 19.

6.10.12 Applicability of Section 49.1 Exemptions

The Phase One Property has a paved parking area located east of the Site Building. According to the Site Representative, salt has historically been applied to the parking area for safety reasons during winter conditions to remove snow and ice. It is the opinion of the QP_{ESA} supervising the Phase One ESA that, although salt-related parameters such as SAR and EC in soil and sodium and chloride in groundwater may be present at concentrations exceeding the applicable Site Condition Standards (i.e., Table 3), the exemption provided in Section 49.1 of O. Reg. 153/04 can be applied. As such, these parameters would be deemed to meet the Site Condition Standards and were not assessed as part of this Phase Two ESA.

7.0 CONCLUSIONS

Pinchin completed a Phase Two ESA at the Phase Two Property in accordance with the requirements stipulated in O. Reg. 153/04 for the purpose of filing an RSC. The RSC is required by the Client in relation to the future redevelopment of the Phase Two Property from industrial to residential land use.

The Phase Two ESA completed by Pinchin included the advancement of 16 boreholes at the Phase Two Property, seven of which were completed as groundwater monitoring wells to facilitate the sampling of groundwater, and the resampling of three existing groundwater monitoring well installed by Pinchin previously in 2018 and 2020.

Based on Site-specific information, the applicable regulatory standards for the Phase Two Property were determined to be the *Table 3 Standards* for residential land use and medium and fine-textured soils. Soil samples were collected from each of the borehole locations and submitted for laboratory analysis of VOCs, PHCs, PAHs, ABNs, PCBs, chlorophenols, metals and/or inorganic parameters. In addition,

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groundwater samples were collected from the seven newly-installed monitoring wells, as well as three previously-installed monitoring wells, and submitted for laboratory analysis of VOCs, PHCs, PAHs, ABNs, PCBs, chlorophenols, metals and/or inorganic parameters.

The laboratory results for the soil samples submitted during the Phase Two ESA indicated that all reported concentrations for the parameters analyzed met the corresponding *Table 3 Standards*, with the exception of the following:

- The concentrations of chlorobenzene (6.3 µg/g vs. the *Table 3 Standard* of 2.7 µg/g) and 1,4-dichlorobenzene (81 µg/g vs. the *Table 3 Standard* of 0.097 µg/g) reported for soil sample SS-3, collected at borehole BH209 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of 1,4-dichlorobenzene (0.15 µg/g vs. the *Table 3 Standard* of 0.097 µg/g) and PHCs F3 (1,800 µg/g vs. the *Table 3 Standard* of 1,300 µg/g) reported for soil sample SS-3, collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of 1,4-dichlorobenzene (0.13 µg/g vs. the *Table 3 Standard* of 0.097 µg/g), PHCs F2 (230 µg/g vs. the *Table 3 Standard* of 150 µg/g) and PHCs F3 (1,700 µg/g vs. the *Table 3 Standard* of 1,300 µg/g) reported for soil sample DUP-1 (field duplicate of soil sample SS-3), collected at borehole MW210 from a depth of 1.22 to 1.83 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of benzo(a)pyrene (0.51 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (1.1 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) reported for soil sample SS-1, collected at borehole BH201 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of lead (120 µg/g vs. the *Table 3 Standard* of 120 µg/g), anthracene (1.2 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (2.5 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (2.2 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (2.9 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), benzo(k)fluoranthene (1.1 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), dibenzo(a,h)anthracene (0.36 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (6.6 µg/g vs. the *Table 3 Standard* of 0.69 µg/g),and indeno(1,2,3-c,d)pyrene (1.3 µg/g vs. the *Table 3 Standard* of 0.48 µg/g) reported for soil sample SS-1, collected at borehole BH202 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of benzo(a)pyrene (0.42 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (0.82 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) reported for soil

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sample SS-1, as well as EC (1.8 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (12 vs. the *Table 3 Standard* of 5) collected at borehole BH203 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;

- The concentrations of benzo(a)pyrene (0.32 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), and fluoranthene (0.85 µg/g vs. the *Table 3 Standard* of 0.69 µg/g) as well as EC (1.3 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) reported for soil sample SS-1, collected at borehole BH205 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of PHCs F2 (1,300 µg/g vs. the *Table 3 Standard* of 150 µg/g), PHCs F3 (15,000 µg/g vs. the *Table 3 Standard* of 1,300 µg/g), cadmium (2.1 µg/g vs. the *Table 3 Standard* of 1.2 µg/g), lead (180 µg/g vs. the *Table 3 Standard* of 120 µg/g), zinc (500 µg/g vs. the *Table 3 Standard* of 340 µg/g), acenaphthene (60 µg/g vs. the *Table 3 Standard* of 58 µg/g), acenaphthylene (12 µg/g vs. the *Table 3 Standard* of 0.17 µg/g), anthracene (110 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (140 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (99 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (150 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), benzo(ghi)perylene (47 µg/g vs. the *Table 3 Standard* of 7.8 µg/g), benzo(k)fluoranthene (44 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), chrysene (110 µg/g vs. the *Table 3 Standard* of 7.8 µg/g), dibenzo(a,h)anthracene (13 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (410 µg/g vs. the *Table 3 Standard* of 0.69 µg/g), fluorene (93 µg/g vs. the *Table 3 Standard* of 69 µg/g), indeno(1,2,3-c,d)pyrene (53 µg/g vs. the *Table 3 Standard* of 0.48 µg/g), 1- & 2-methylnaphthalene (47 µg/g vs. the *Table 3 Standard* of 0.99 µg/g), naphthalene (48 µg/g vs. the *Table 3 Standard* of 0.75 µg/g), phenanthrene (430 µg/g vs. the *Table 3 Standard* of 7.8 µg/g) and pyrene (300 µg/g vs. the *Table 3 Standard* of 78 µg/g) reported for soil sample SS-1, collected at borehole BH206 from a depth of 0.15 to 0.51 mbgs, exceeded the *Table 3 Standards*;
- The concentrations of anthracene (6 µg/g vs. the *Table 3 Standard* of 0.74 µg/g), benzo(a)anthracene (8.6 µg/g vs. the *Table 3 Standard* of 0.63 µg/g), benzo(a)pyrene (7.1 µg/g vs. the *Table 3 Standard* of 0.3 µg/g), benzo(b)fluoranthene (8.6 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), benzo(k)fluoranthene (3 µg/g vs. the *Table 3 Standard* of 0.78 µg/g), dibenzo(a,h)anthracene (0.9 µg/g vs. the *Table 3 Standard* of 0.1 µg/g), fluoranthene (23 µg/g vs. the *Table 3 Standard* of 0.69 µg/g), indeno(1,2,3-c,d)pyrene (3.9 µg/g vs. the *Table 3 Standard* of 0.48 µg/g) and phenanthrene (430 µg/g vs. the *Table 3 Standard* of 7.8 µg/g) as well as SAR (13 vs. the *Table 3 Standard* of 5) reported for soil sample SS-1, collected at borehole MW214 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;

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- EC (1.1 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (5.6 vs. the *Table 3 Standard* of 5) reported for soil sample SS-1 collected at borehole BH204 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*;
- EC (1.2 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) reported for soil sample SS-1 collected at borehole MW208 from a depth of 0.15 to 0.75 mbgs, exceeded the *Table 3 Standards*; and
- The concentrations of cadmium (15 µg/g vs. the *Table 3 Standard* of 1.2 µg/g), copper (400 µg/g vs. the *Table 3 Standard* of 180 µg/g), lead (340 µg/g vs. the *Table 3 Standard* of 120 µg/g), zinc (400 µg/g vs. the *Table 3 Standard* of 340 µg/g), EC (2 mS/cm vs. the *Table 3 Standard* of 0.7 mS/cm) and SAR (7.8 vs. the *Table 3 Standard* of 5) reported for soil sample SS-2 collected at borehole BH207 from a depth of 0.51 to 1.22 mbgs, exceeded the *Table 3 Standards*.

Several soil samples reported EC and SAR levels exceeding the *Table 3 Standards* but the elevated EC and SAR levels have been attributed to the application of road salt on roadways adjacent to the Phase Two Property. The road salt contaminant exemption in O. Reg. 153/04 is considered applicable in this situation and EC and SAR are not considered contaminants at the Phase Two Property.

Soil remediation was subsequently completed at the Phase Two ESA Property to reduce the concentrations of the above-listed parameters to levels below the *Table 3 Standards*. No exceedances of the *Table 3 Standards* were reported in the soil verification samples collected at the conclusion of remedial activities. No soil was imported to the Phase Two Property to backfill the remedial excavations.

The laboratory results for all final groundwater samples submitted during the Phase Two ESA indicated that all reported concentrations for the parameters analyzed met the corresponding *Table 3 Standards*.

The maximum reported soil and groundwater concentrations for the parameters analyzed are summarized in Tables 8 and 9, respectively. Note that the maximum concentrations represent current soil and groundwater conditions. In determining the maximum current concentrations, post-remediation soil verification sample results have been considered but sample results from the initial field work for the Phase Two ESA for soil that has been remediated have been excluded.

It is the opinion of the QP who supervised the Phase Two ESA that the applicable *Table 3 Standards* for soil and groundwater at the Phase Two Property have been met as of the Certification Date of February 28, 2025 and that no further subsurface investigation is required in relation to assessing the environmental quality of soil and groundwater at the Phase Two Property.

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7.1 Signatures

This Phase Two ESA was undertaken under the supervision of Robert MacKenzie, B.Sc., P.Geo., QP_{ESA}, Scott Mather, P.Eng., QP_{ESA}, and Alicia McDonald, P.Eng., QP_{ESA} in accordance with the requirements of O. Reg. 153/04 to support the filing of an RSC for the Phase Two Property.

7.2 Terms and Limitations

This Phase Two ESA was performed for 25 Pickering Holding Ltd. (Client) in order to investigate potential environmental impacts at 25 Pickering Place and 1330 Avenue K in Ottawa, Ontario (Site). The term recognized environmental condition means the presence or likely presence of any hazardous substance on a property under conditions that indicate an existing release, past release, or a material threat of a release of a hazardous substance into structures on the property or into the ground, groundwater, or surface water of the property. This Phase Two ESA does not quantify the extent of the current and/or recognized environmental condition or the cost of any remediation.

Conclusions derived are specific to the immediate area of study and cannot be extrapolated extensively away from sample locations. Samples have been analyzed for a limited number of contaminants that are expected to be present at the Site, and the absence of information relating to a specific contaminant does not indicate that it is not present.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions on a property. Performance of this Phase Two ESA to the standards established by Pinchin is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions on the Site and recognizes reasonable limits on time and cost.

This Phase Two ESA was performed in general compliance with currently acceptable practices for environmental site investigations, and specific Client requests, as applicable to this Site.

This report was prepared for the exclusive use of the Client, subject to the terms, conditions and limitations contained within the duly authorized proposal for this project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

If additional parties require reliance on this report, written authorization from Pinchin will be required. Pinchin disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. No other warranties are implied or expressed. Furthermore, this report should not be construed as legal advice. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law.

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Pinchin makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

8.0 REFERENCES

The following documents provided information used in this report:

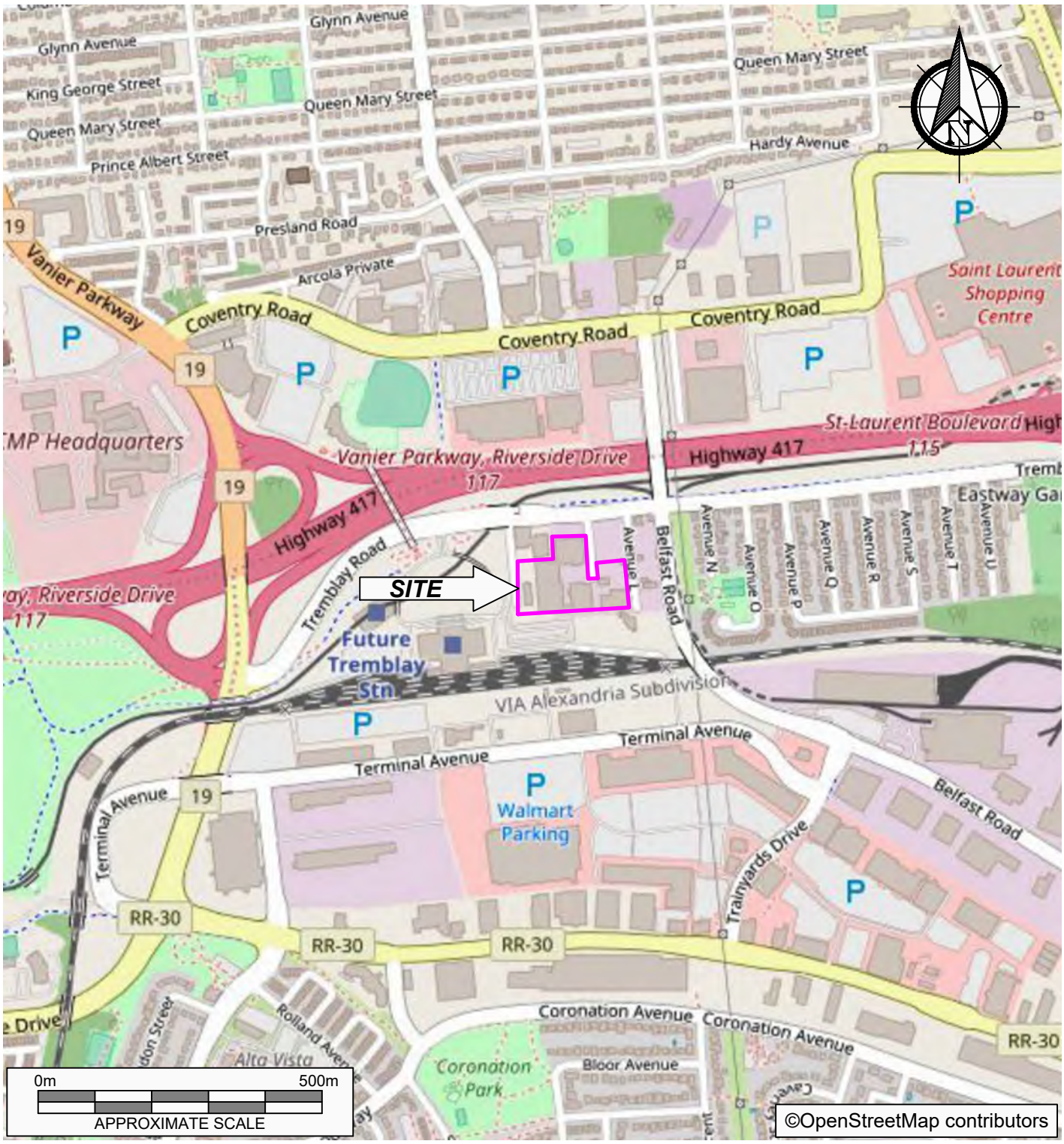
- "*Phase I/Phase II Environmental Audit and Environmental Site Assessment, 25 Pickering Place, Ottawa, Ontario*", prepared by Adamas Environmental Inc. (Adamas), prepared for Dustbane Enterprises Limited and dated November 1993.
- *"Supplemental Phase II & Asbestos Removal, 25 Pickering Place, Ottawa, Ontario"*, prepared by Adamas prepared for Dustbane Enterprises Ltd. and dated June 1994.
- *"Soil Cleanup-Varsol Tank Removal, Dustbane Products Limited"*, prepared by Adamas prepared for Dustbane Products Limited and dated October 11, 1994.
- *"Phase I Environmental Site Assessment, 25 Pickering Place, Ottawa, Ontario"*, prepared by Paterson Group Inc. (Paterson), prepared for Dustbane Enterprises Limited and dated May 5, 2017.
- *"Environmental Peer Review, 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario"*, prepared by Pinchin for Dustbane Enterprises Ltd. and dated July 9, 2018.
- "*Phase II Environmental Site Assessment, 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario*", prepared by Pinchin for Dustbane Enterprises Ltd., and dated July 20, 2018.
- "*Supplemental Phase II Environmental Site Assessment, 25 Pickering Place, Ottawa, Ontario*", prepared by Pinchin for Fiera Real Estate Core Fund LP and 25 Pickering Holdings Inc., and dated February 25, 2020.
- "*Remedial Excavation and Verification Soil Sampling Program, 25 Pickering Place, Ottawa, Ontario*", prepared by Pinchin for Colonnade BridgePort, and dated July 31, 2020.
- "*Groundwater Monitoring and Sampling Program, 25 Pickering Place, Ottawa, Ontario*", prepared by Pinchin for Colonnade BridgePort, and dated May 7, 2021.
- Association of Professional Geoscientists of Ontario. Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended). April 2011.

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- Ontario Ministry of the Environment. Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario. December 1996.
- Ontario Ministry of the Environment. Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. March 9, 2004 amended July 1, 2011.
- Ontario Ministry of the Environment. Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. April 15, 2011.
- Pinchin Ltd. Phase One Environmental Site Assessment, 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario. Prepared for Client., April 6, 2021.
- Province of Ontario. Environmental Protection Act, R.S.O 1990, Chapter E.19.
- Province of Ontario. R.R.O. 1990, Regulation 347, General – Waste Management, as amended by Ontario Regulation 234/11.
- Province of Ontario. Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act. Last amended by Ontario Regulation 274/20 on July 1, 2020.
- U.S. Environmental Protection Agency - Region 1. Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells. Revised January 19, 2010.

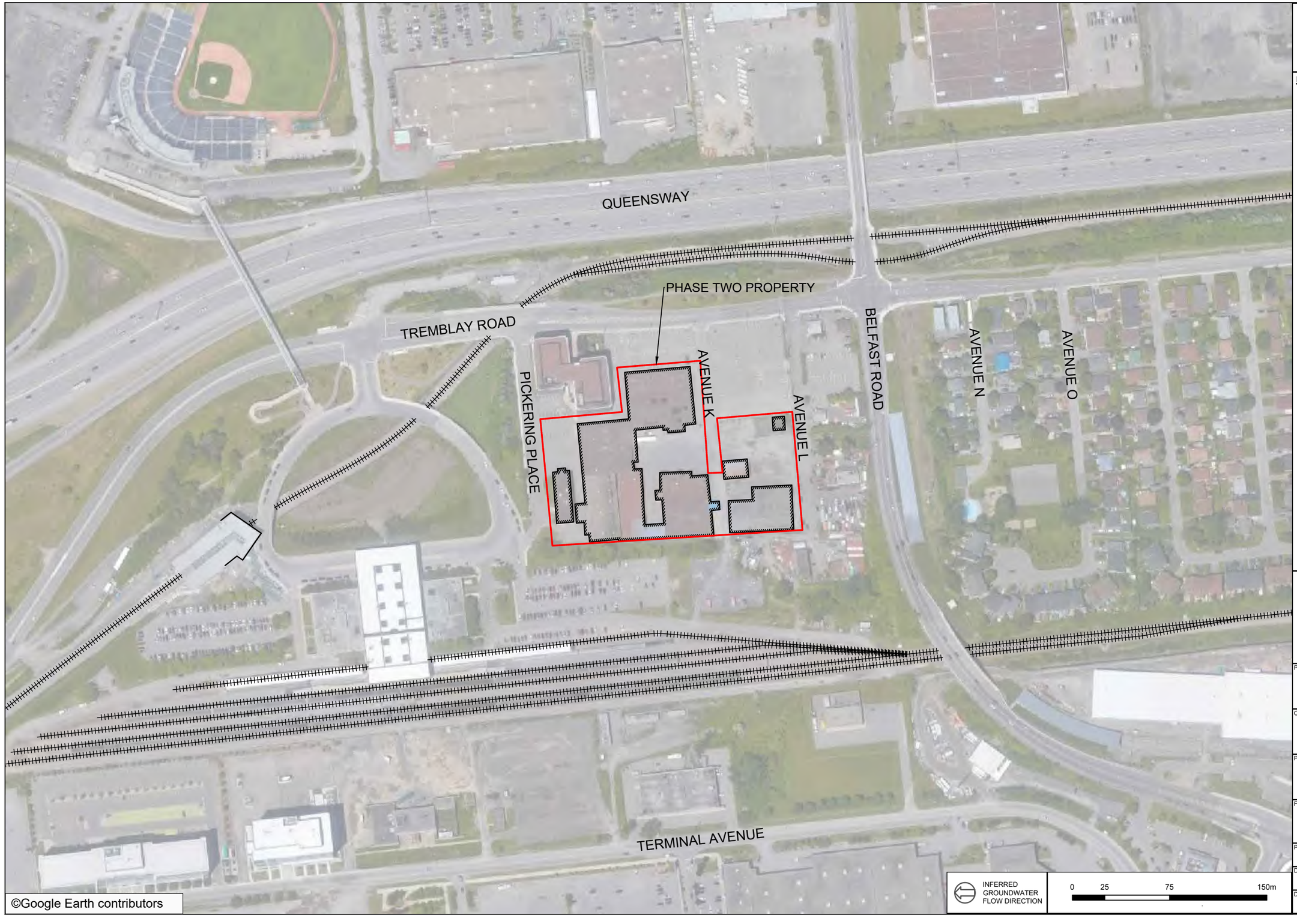
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9.0 FIGURES AND TABLES



PINCHIN

PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT		
CLIENT NAME: 25 PICKERING HOLDINGS INC.		
PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO		
FIGURE NAME: KEY MAP		FIGURE NO.: 1
APPROXIMATE SCALE: AS SHOWN	PROJECT NO.: 267991.007	DATE: MAY 2025



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDINGS
- RAILWAY LINE

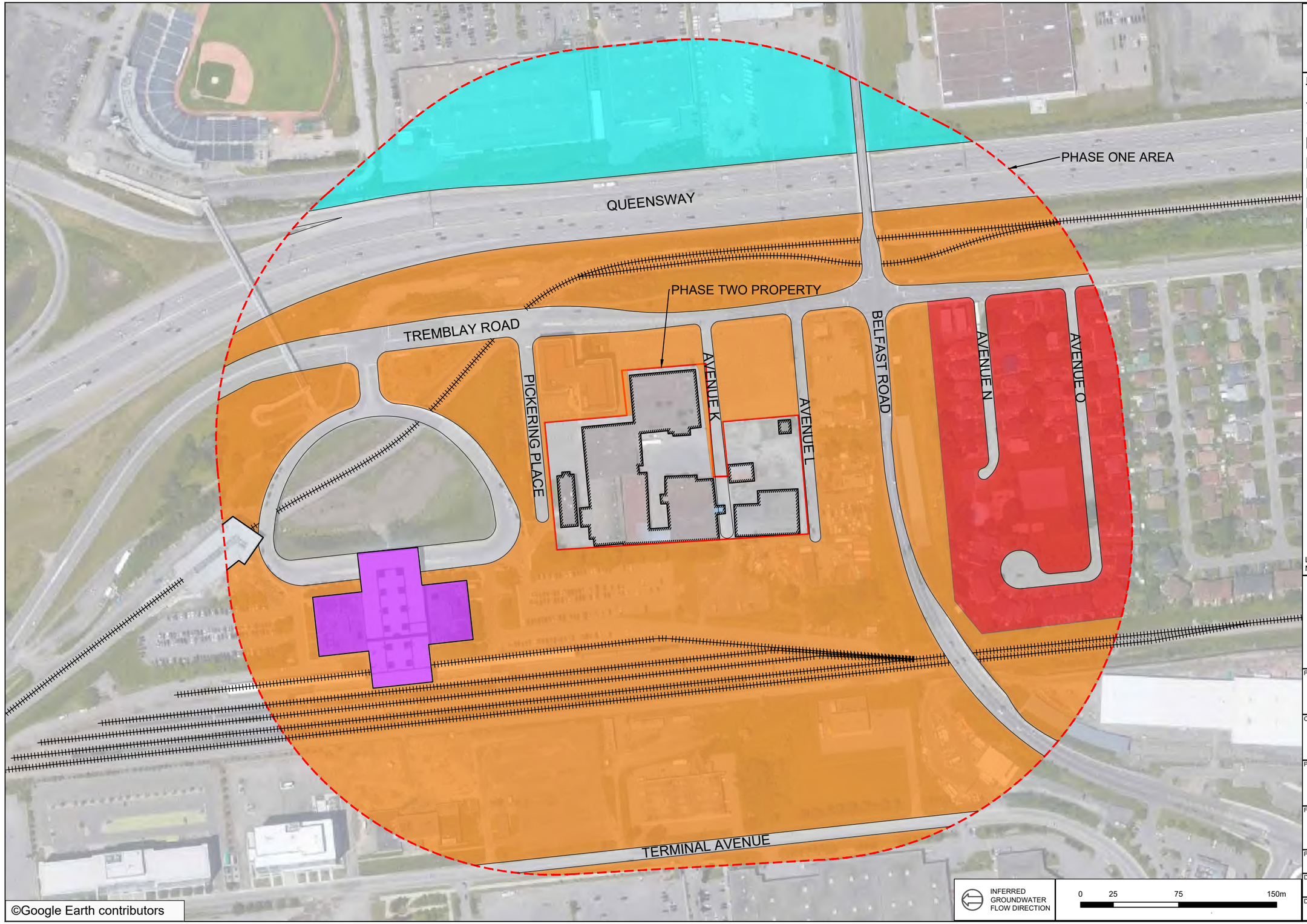
INFERRED GROUNDWATER FLOW DIRECTION

0 25 75 150m

PINCHIN

PROJECT NAME:	PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT NAME:	25 PICKERING HOLDINGS INC.
PROJECT LOCATION:	25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO
FIGURE NAME:	PHASE TWO PROPERTY

PROJECT NUMBER: 267991.007	SCALE: AS SHOWN
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 2



N

LEGEND

- PHASE TWO PROPERTY
- PHASE ONE BOUNDARY
- FORMER SITE BUILDINGS
- RESIDENTIAL
- COMMERCIAL
- COMMERCIAL/INDUSTRIAL
- INSTITUTIONAL
- RAILWAY LINE

INFERRED GROUNDWATER FLOW DIRECTION

0 25 75 150m

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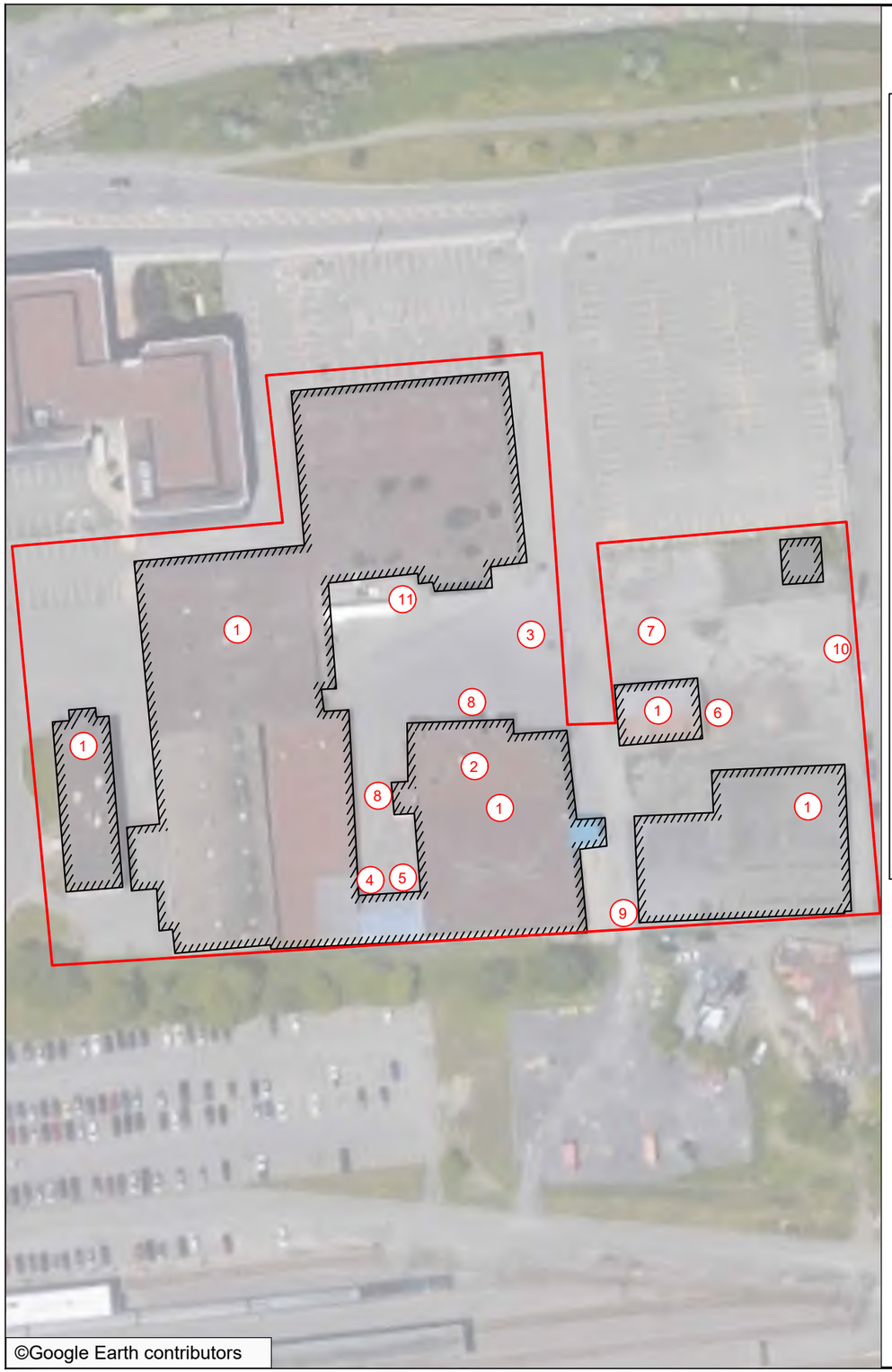
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
PHASE ONE STUDY AREA

PROJECT NUMBER:	SCALE:
267991.007	AS SHOWN
DRAWN BY:	REVIEWED BY:
CM	MK
DATE:	FIGURE NUMBER:
MAY 2025	3



PCA Designation	Location of Potentially Contaminating Activity	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Distance from Phase One Property (metres)	Location Relative to Inferred Groundwater Flow Direction[1]	Contributing to an APEC at the Site (Yes/No)	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
PCA-1	Manufacturing of various cleaning products within Site Building A.	Item 8 - Chemical Manufacturing, Processing and Bulk Storage	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-2	Drainage trench and two associated pits present in Site Building A that collect wastewater.	Other - Wastewater Generation	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-3	A pad-mounted oil-cooled transformer located on the central portion of the Phase One Property.	Item 55 - Transformer Manufacturing, Processing and Use	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil
PCA-4	A former 2,000-gallon fuel oil tank (associated with an 'oil house') located on the south-central portion of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-5	A former 10,000-gallon "nuso" oil tank (associated with an 'oil house') located on the south-central portion of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-6	Former 3,790-L varsol UST located adjacent to the east elevation of Site Building D.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-7	Former varsol UST (size unknown) located adjacent to the north elevation of Site Building D.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-8	Various ASTs (contents unknown) located adjacent to the north and west elevations of Site Building A.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-9	Former varsol UST (size unknown) located near the south boundary of the Phase One Property, between Site Buildings A and E.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-10	Various gasoline and diesel USTs, associated with a former private fuel outlet, located on the east-central portion of the Phase One Property (near the boundary).	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-11	Fill material identified throughout the Phase One Property by previous subsurface investigations.	Item 30 - Importation of Fill Material of Unknown Quality	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil
PCA-12	Diesel AST formerly located in the north-central portion of Site Building E.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil
PCA-13	Application of road salt in parking areas and walkways at the Phase One Property.	Other - Road Salting Activities	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil

INFERRED GROUNDWATER FLOW DIRECTION

0 30 60 Meters

N

LEGEND

PHASE TWO PROPERTY

FORMER SITE BUILDINGS

PCA CONTRIBUTES TO AN APEC

APEC AREA OF POTENTIAL ENVIRONMENTAL CONCERN

PCA POTENTIALLY CONTAMINATING ACTIVITY

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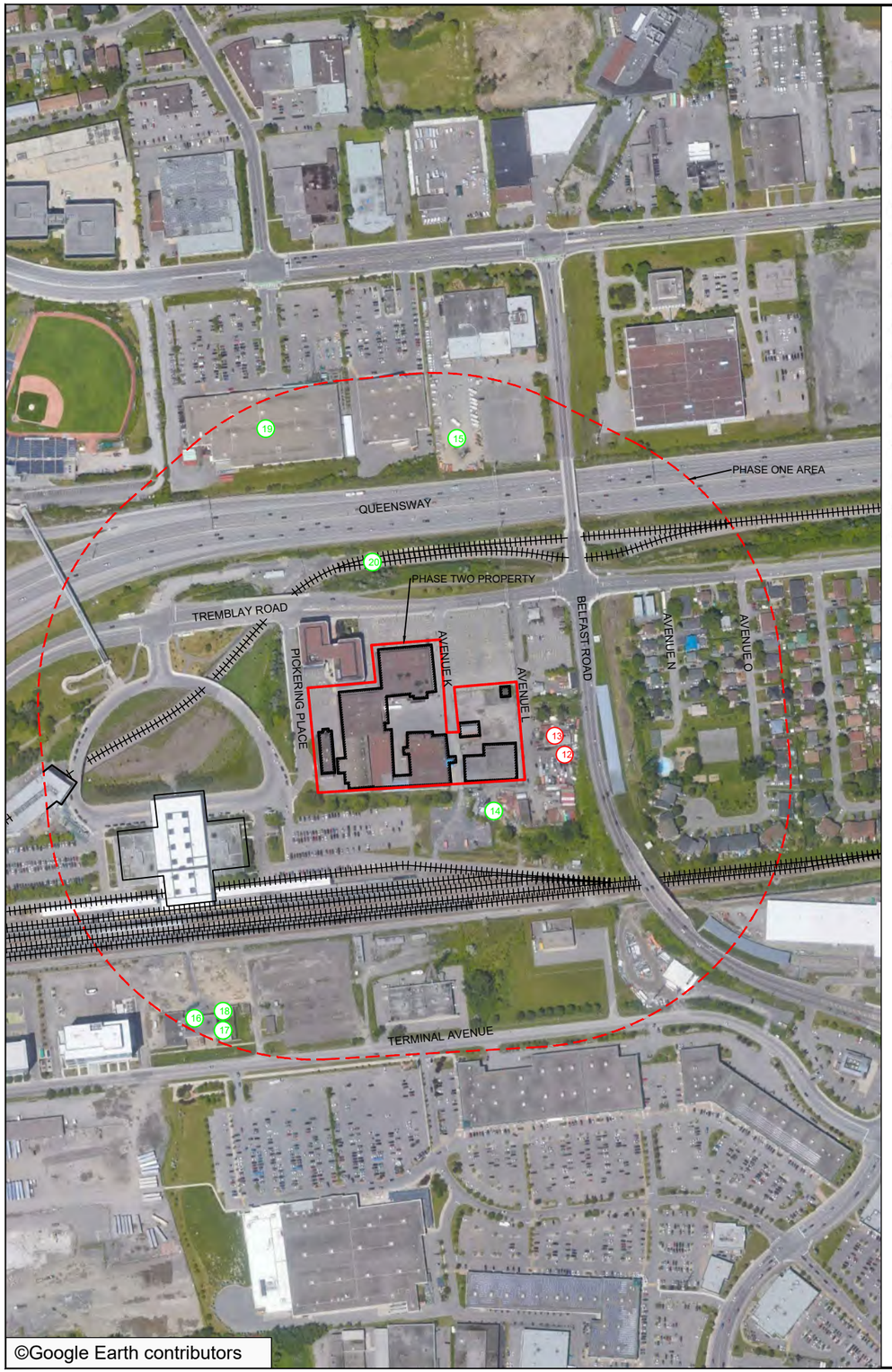
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
POTENTIALLY CONTAMINATING ACTIVITIES- ON-SITE

PROJECT NUMBER:	SCALE:
267991.007	1:1250
DRAWN BY:	REVIEWED BY:
DM	MK
DATE:	FIGURE NUMBER:
MAY 2025	4



PCA Designation	Location of Potentially Contaminating Activity	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Distance from Phase One Property (metres)	Location Relative to Inferred Groundwater Flow Direction[1]	Contributing to an APEC at the Site (Yes/No)	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
PCA-14	Automotive repair/servicing operation located east of the Phase One Property.	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	20	Upgradient	Yes	Groundwater
PCA-15	Retail fuel outlet with associated USTs located east of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	20	Upgradient	Yes	Groundwater
PCA-16	Current and former railway lines located south of the Phase One Property.	Item 46 - Rail Yards, Tracks and Spurs	Off-Site	5 to 115	Transgradient	No	Not Applicable
PCA-17	PFO with associated USTs located northeast of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	185	Transgradient	No	Not Applicable
PCA-18	Registered Federal Contaminated Site at 433 Terminal Avenue (Via Rail Canada Inc.) located southwest of the Phase One Property.	Other – Federal Contaminated Site	Off-Site	20	Downgradient	No	Not Applicable
PCA-19	PFO at 433 Terminal Avenue (Via Rail Canada Inc.) located southwest of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	215	Downgradient	No	Not Applicable
PCA-20	PCB storage (i.e., ballasts and other equipment) at 433 Terminal Avenue (Via Rail Canada Inc.) located southwest of the Phase One Property.	Other - Hazardous Waste Generation	Off-Site	215	Downgradient	No	Not Applicable

N

LEGEND

- PHASE TWO PROPERTY
- PHASE ONE BOUNDARY
- FORMER SITE BUILDINGS
- (#) PCA DOES NOT CONTRIBUTES TO AN APEC
- (#) PCA CONTRIBUTES TO AN APEC
- APEC AREA OF POTENTIAL ENVIRONMENTAL CONCERN
- PCA POTENTIALLY CONTAMINATING ACTIVITY

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INFERRED GROUNDWATER FLOW DIRECTION

0 120 240 Meters

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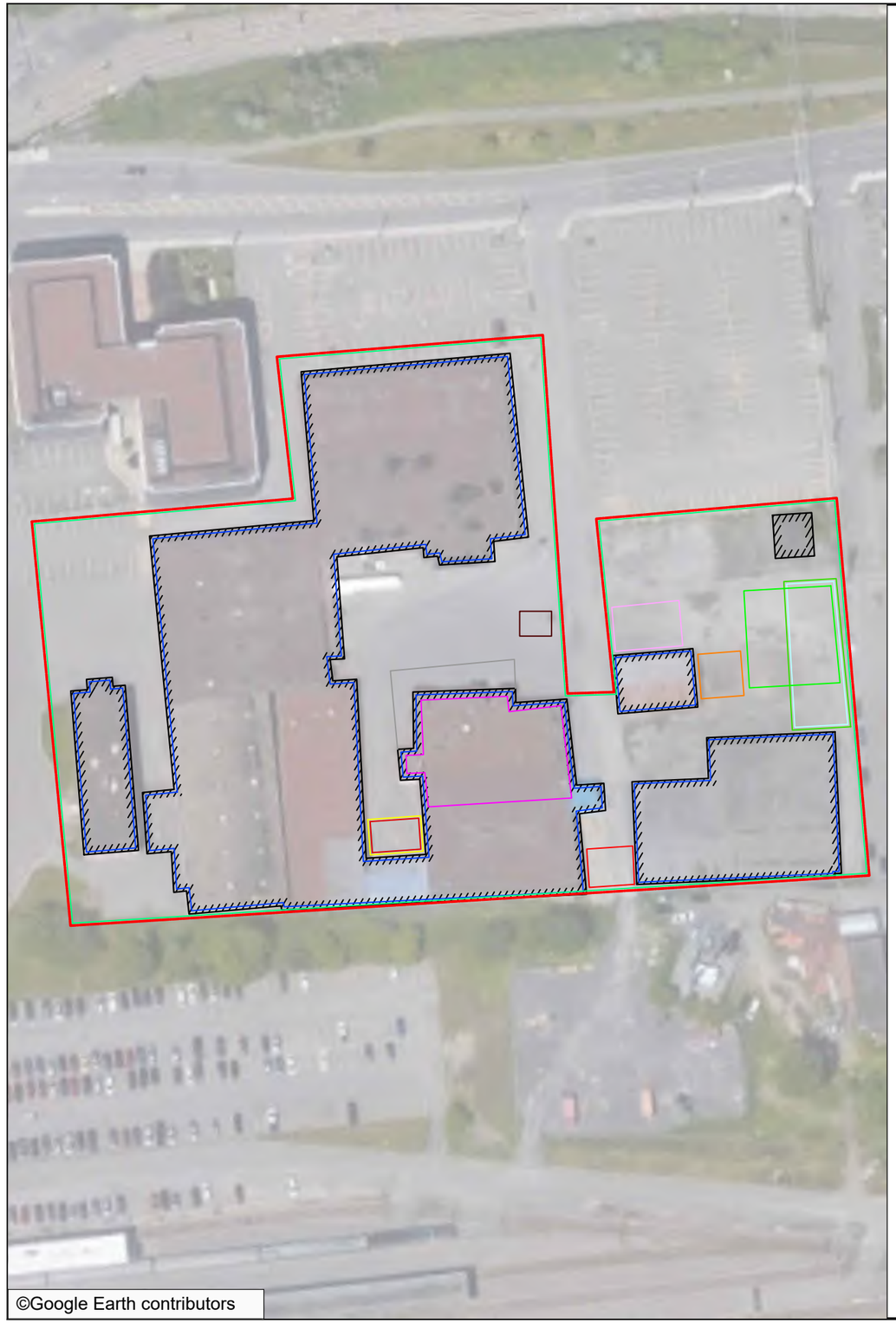
PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: 25 PICKERING HOLDINGS INC.

PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME: POTENTIALLY CONTAMINATING ACTIVITIES- OFF-SITE

PROJECT NUMBER:	SCALE:
267991.007	1:5000
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 5



Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-1 (Manufacturing of various cleaning products within Site Building A)	Throughout the Site Buildings (except Building F) and former on-Site buildings.	Item 8 - Chemical Manufacturing, Processing and Bulk Storage	On-Site	PHCs BTEX PAHs VOCs ABNs CPs	Soil and Groundwater
APEC-2 (Drainage trench and two associated pits present in Site Building A that collect wastewater)	North portion of Site Building A.	Other - Wastewater Generation	On-Site	PHCs BTEX PAHs VOCs ABNs CPs	Soil and Groundwater
APEC-3 (A pad-mounted oil-cooled transformer)	Central portion of the Phase One Property	Item 55 - Transformer Manufacturing, Processing and Use	On-Site	PHCs BTEX PCBs	Soil
APEC-4 (2,000-gallon fuel oil tank (associated with an 'oil house'))	South-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil and Groundwater
APEC-5 (10,000-gallon "nuso" oil tank (associated with an 'oil house'))	South-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil and Groundwater
APEC-6 (Former 3,790-L varsol underground storage tank (UST))	Adjacent to the east elevation of Site Building D	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater
APEC-7 (Former varsol UST (size unknown))	Adjacent to the north elevation of Site Building D	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater
APEC-8 (Various former ASTs (contents unknown))	Adjacent to the north and west elevations of Site Building A	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater
APEC-9 (Former varsol UST (size unknown))	Near the south boundary of the Phase One Property, between Site Buildings A and E	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater
APEC-10 (Various gasoline and diesel USTs, associated with a former private fuel outlet)	East-central portion of the Phase One Property (near the boundary)	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs Metals	Soil and Groundwater
APEC-11 (Fill material identified on-Site by previous subsurface investigations)	Throughout the Phase One Property	Item 30 - Importation of Fill Material of Unknown Quality	On-Site	PAHs PHCs Metals As,Sb,Se B-HWS Cr(VI) Hg CN EC SAR	Soil
APEC-12 (Former diesel AST)	North-central portion of Site Building E.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil
APEC-13 (Application of road salt)	Parking areas and walkways at the Phase One Property.	Other – Road Salting Activities	On-Site	EC SAR	Soil
APEC-14 (Automotive repair/servicing operation located at 1333 Avenue L)	East portion of the Phase One Property	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	PHCs BTEX PAHs VOCs Metals	Groundwater
APEC-15 (Retail fuel outlet with associated USTs located at 1333 Avenue L)	East portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs BTEX PAHs VOCs Metals	Groundwater

INFERRED GROUNDWATER FLOW DIRECTION

0 25 75 150m

N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDINGS
- RAILWAY LINE
- APEC-1
- APEC-2
- APEC-3
- APEC-4
- APEC-5
- APEC-6
- APEC-7
- APEC-8
- APEC-9
- APEC-10
- APEC-11
- APEC-12
- APEC-13
- APEC AREA OF POTENTIAL ENVIRONMENTAL CONCERN

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PINCHIN

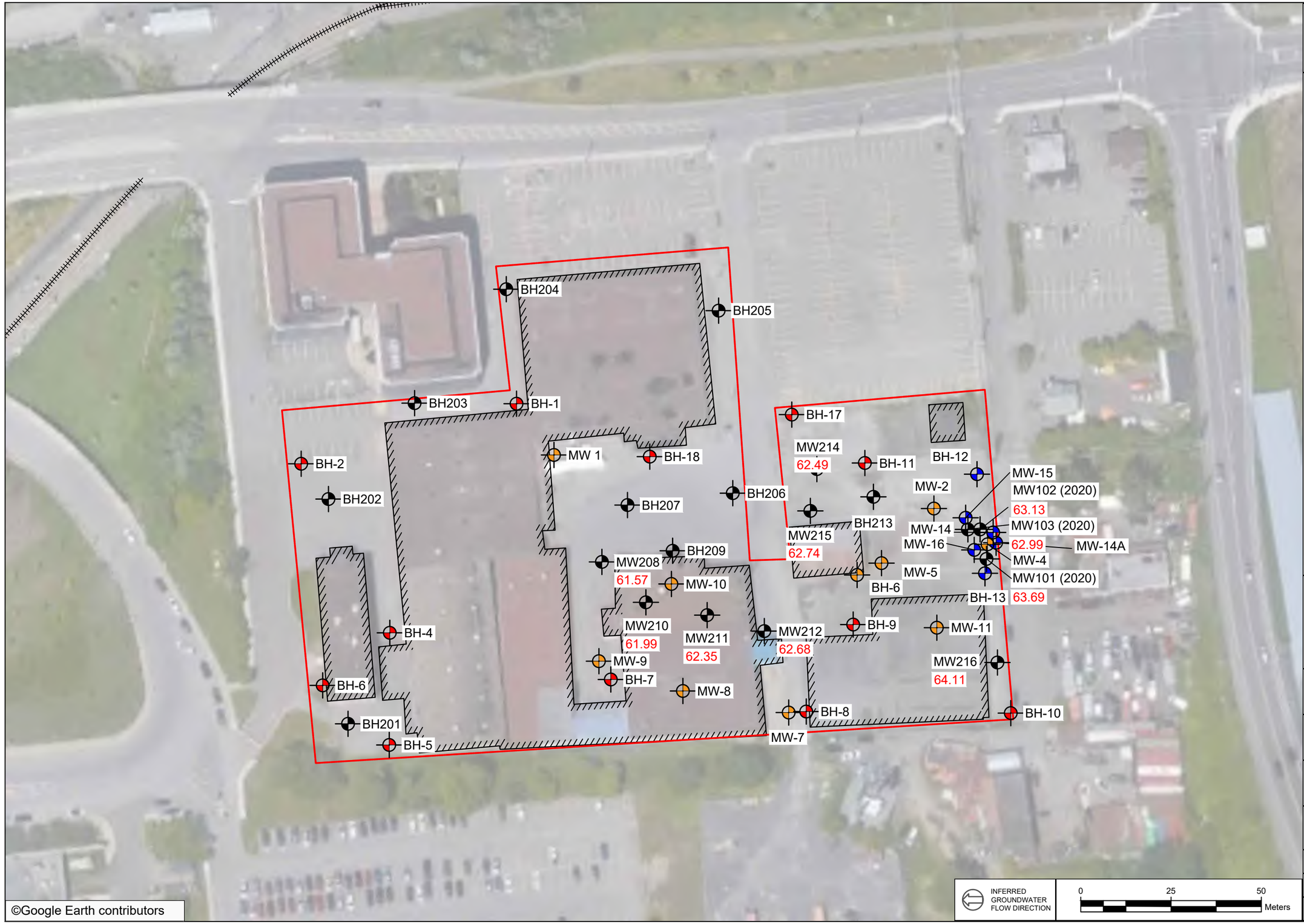
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
POTENTIALLY CONTAMINATING ACTIVITIES

PROJECT NUMBER:	SCALE:
267991.007	AS SHOWN
DRAWN BY:	REVIEWED BY:
CM	MK
DATE:	FIGURE NUMBER:
AUGUST 2021	6



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDINGS
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- PINCHIN 2018 BOREHOLE/MONITORING WELL
- PINCHIN GEOTECHNICAL BOREHOLE
- 100.0 MONITORING WELL ELEVATION (mamsl.)

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER

PINCHIN

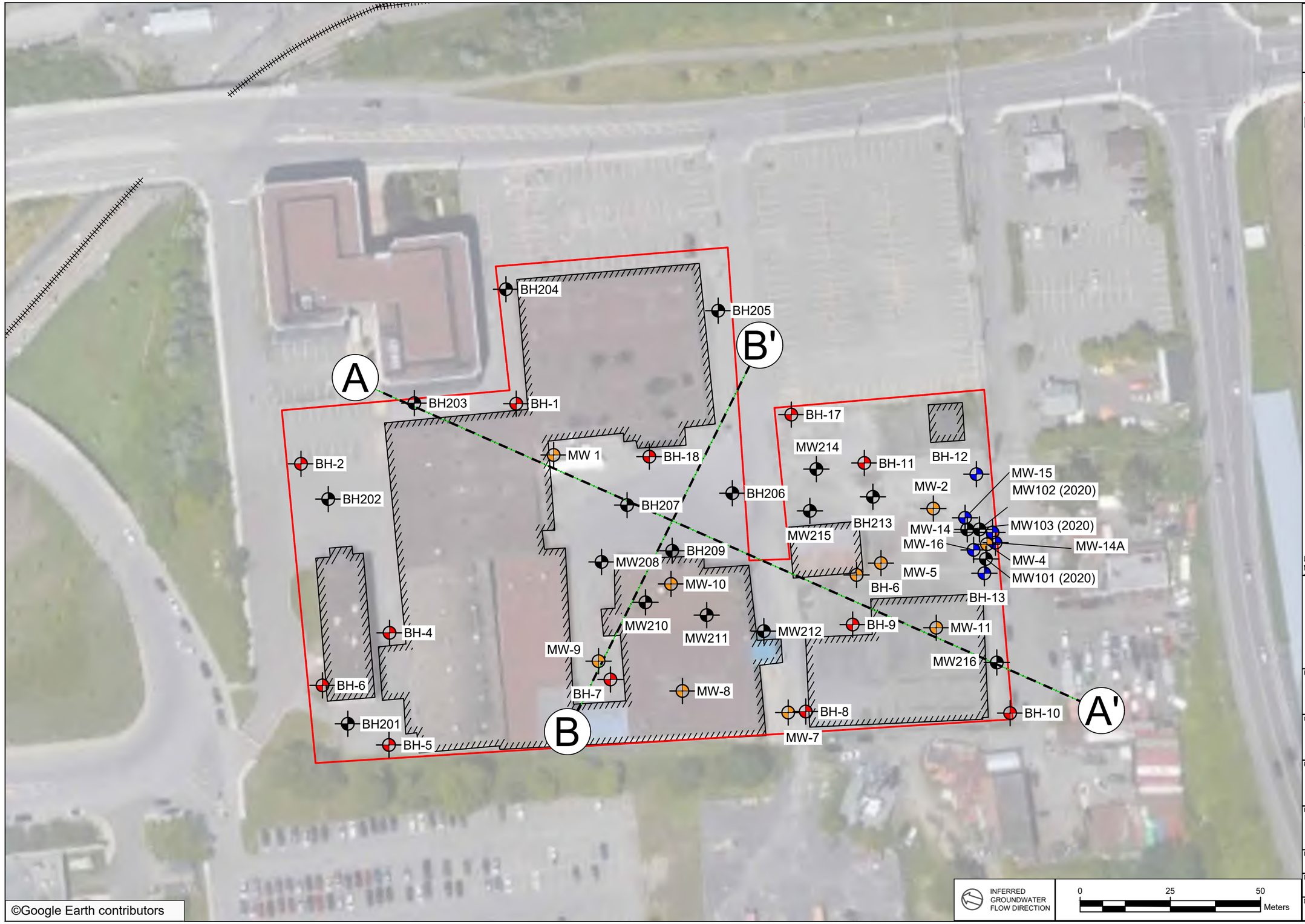
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
BOREHOLE AND MONITORING WELL LOCATION PLAN

PROJECT NUMBER:	SCALE:
267991.007	1:1000
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 7



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDINGS
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- PINCHIN 2018 BOREHOLE/MONITORING WELL
- PINCHIN GEOTECHNICAL BOREHOLE
- CROSS SECTION

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER

PINCHIN

PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

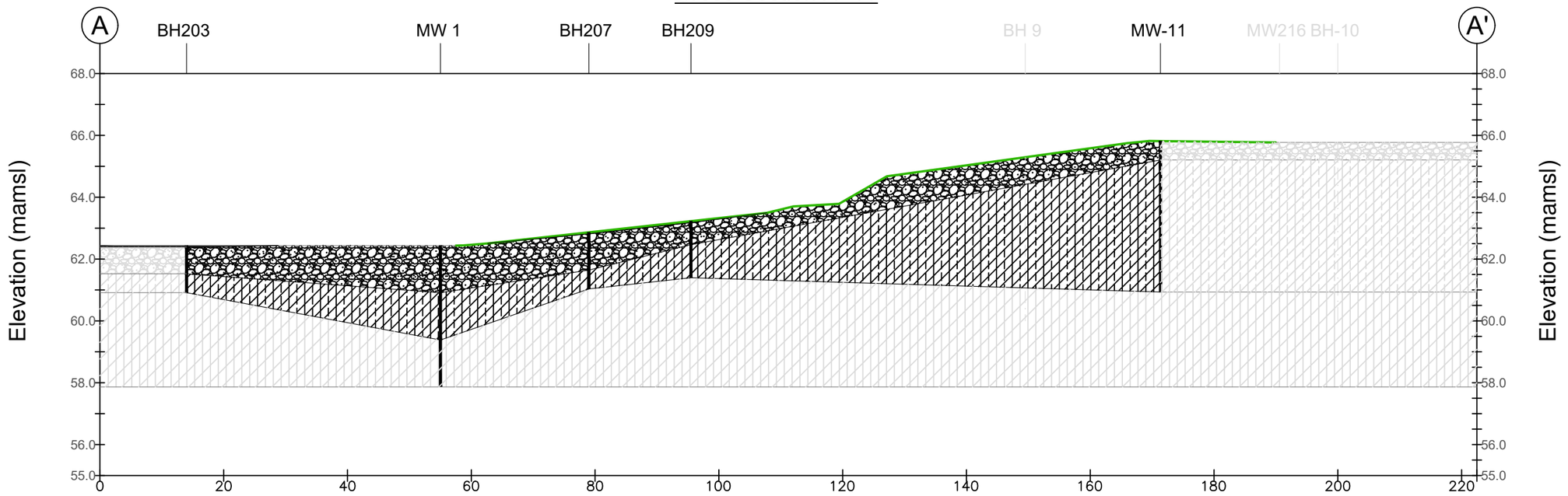
CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

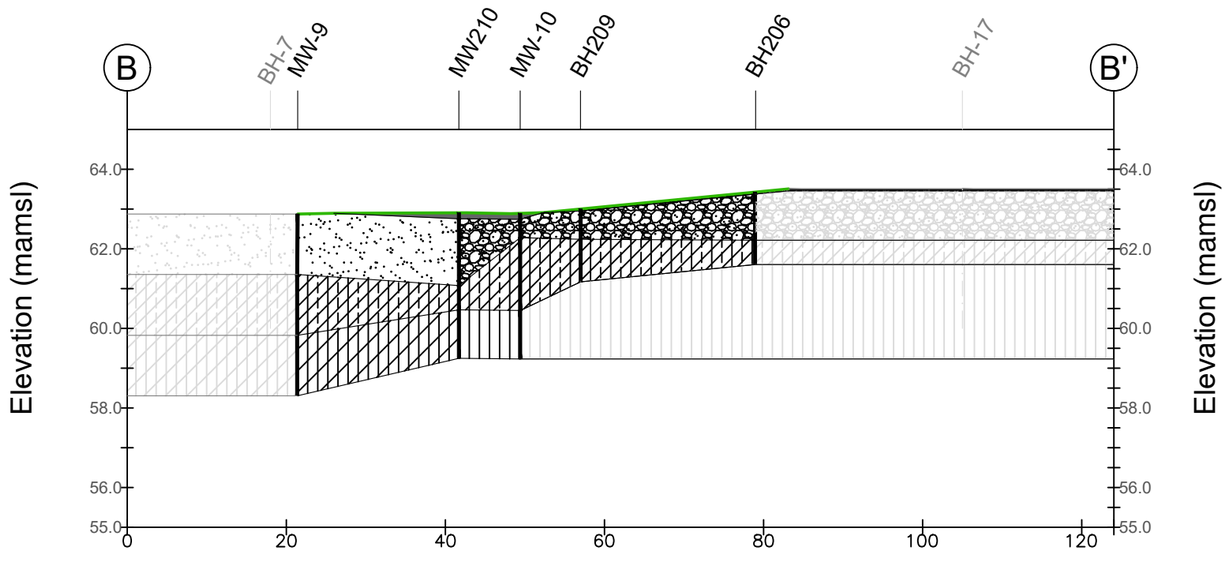
FIGURE NAME:
CROSS SECTION PLAN

PROJECT NUMBER:	SCALE:
267991.007	1:1000
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 8A

Cross Section A - A'



Cross Section B - B'



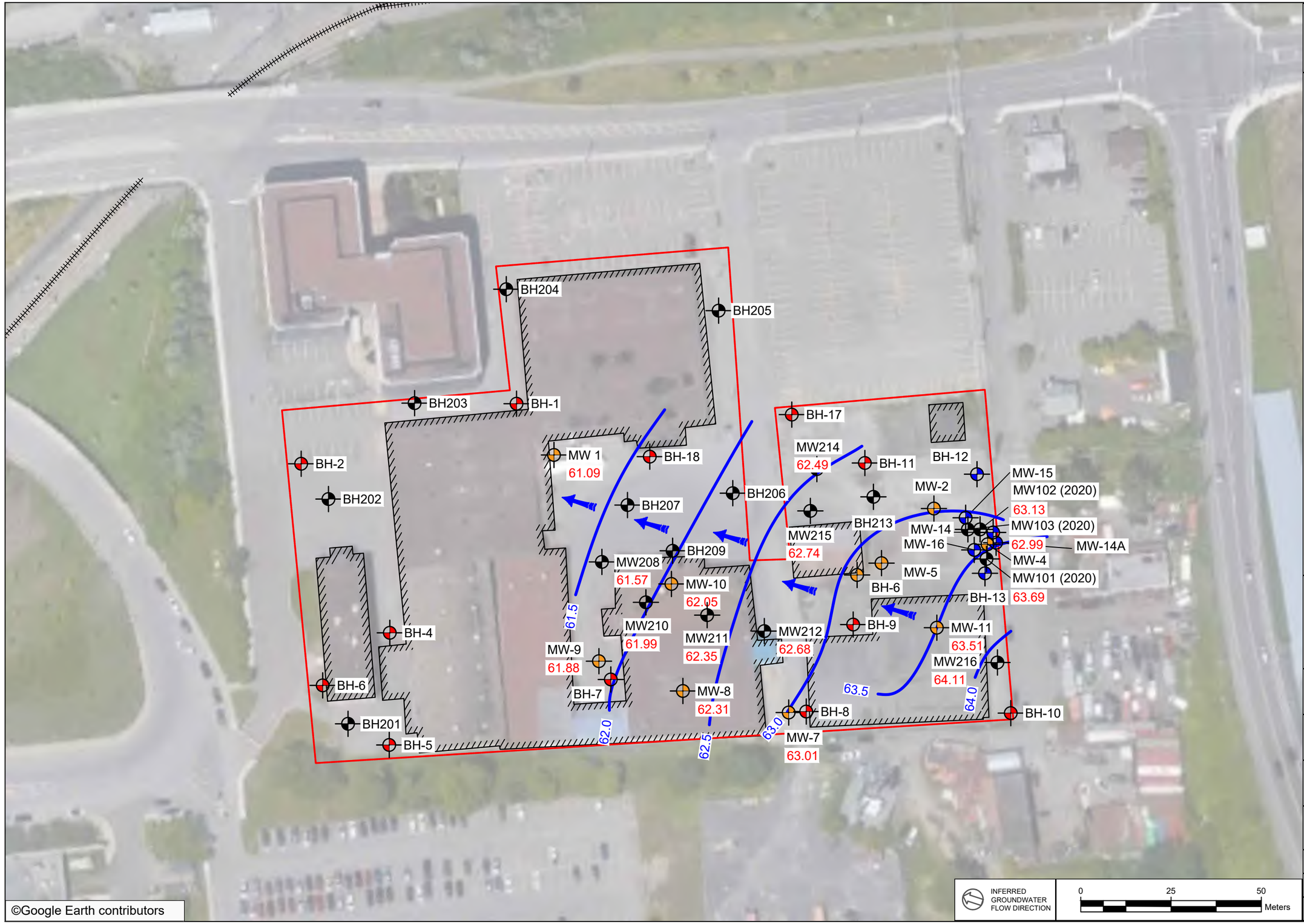
LEGEND

- EXISTING GROUND
- INFERRED GROUND
- GRAVEL
- CLAY
- SAND
- SILT
- INFERRED AREA

PINCHIN

PROJECT NAME:	PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT NAME:	25 PICKERING HOLDINGS INC.
PROJECT LOCATION:	25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO
FIGURE NAME:	CROSS SECTIONS

PROJECT NUMBER: 267991.007	SCALE: AS SHOWN
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 8B



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDINGS
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- PINCHIN 2018 BOREHOLE/MONITORING WELL
- PINCHIN GEOTECHNICAL BOREHOLE
- 100.0 MONITORING WELL ELEVATION (mamsl.)
- 100.0 GROUNDWATER CONTOUR ELEVATION (mamsl.)
- GROUNDWATER CONTOUR LINES
- GROUNDWATER FLOW DIRECTION

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER

PINCHIN

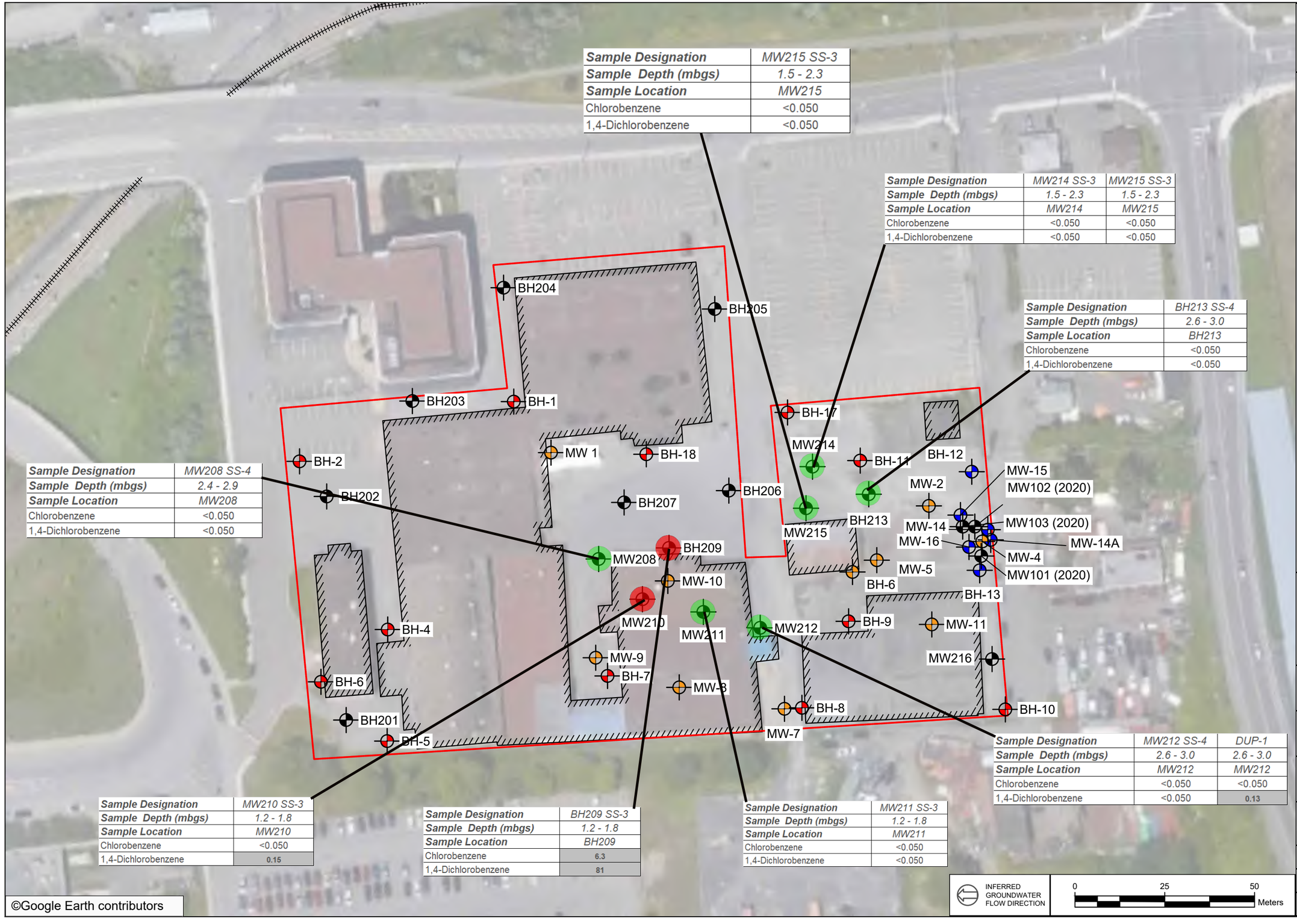
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
GROUNDWATER CONTOUR PLAN JULY 20, 2021

PROJECT NUMBER:	SCALE:
267991.007	1:1000
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 9A



Sample Designation	MW215 SS-3
Sample Depth (mbgs)	1.5 - 2.3
Sample Location	MW215
Chlorobenzene	<0.050
1,4-Dichlorobenzene	<0.050

Sample Designation	MW214 SS-3	MW215 SS-3
Sample Depth (mbgs)	1.5 - 2.3	1.5 - 2.3
Sample Location	MW214	MW215
Chlorobenzene	<0.050	<0.050
1,4-Dichlorobenzene	<0.050	<0.050

Sample Designation	BH213 SS-4
Sample Depth (mbgs)	2.6 - 3.0
Sample Location	BH213
Chlorobenzene	<0.050
1,4-Dichlorobenzene	<0.050

Sample Designation	MW208 SS-4
Sample Depth (mbgs)	2.4 - 2.9
Sample Location	MW208
Chlorobenzene	<0.050
1,4-Dichlorobenzene	<0.050

Sample Designation	MW212 SS-4	DUP-1
Sample Depth (mbgs)	2.6 - 3.0	2.6 - 3.0
Sample Location	MW212	MW212
Chlorobenzene	<0.050	<0.050
1,4-Dichlorobenzene	<0.050	0.13

Sample Designation	MW210 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW210
Chlorobenzene	<0.050
1,4-Dichlorobenzene	0.15

Sample Designation	BH209 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	BH209
Chlorobenzene	6.3
1,4-Dichlorobenzene	81

Sample Designation	MW211 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW211
Chlorobenzene	<0.050
1,4-Dichlorobenzene	<0.050

INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDINGS
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- PINCHIN 2018 BOREHOLE/MONITORING WELL
- PINCHIN GEOTECHNICAL BOREHOLE
- EXCEEDS APPLICABLE STANDARDS/CRITERIA
- MEETS APPLICABLE STANDARDS/CRITERIA

Table 3 Standards	
Chlorobenzene	2.7
1,4-Dichlorobenzene	0.097

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER

PINCHIN

PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

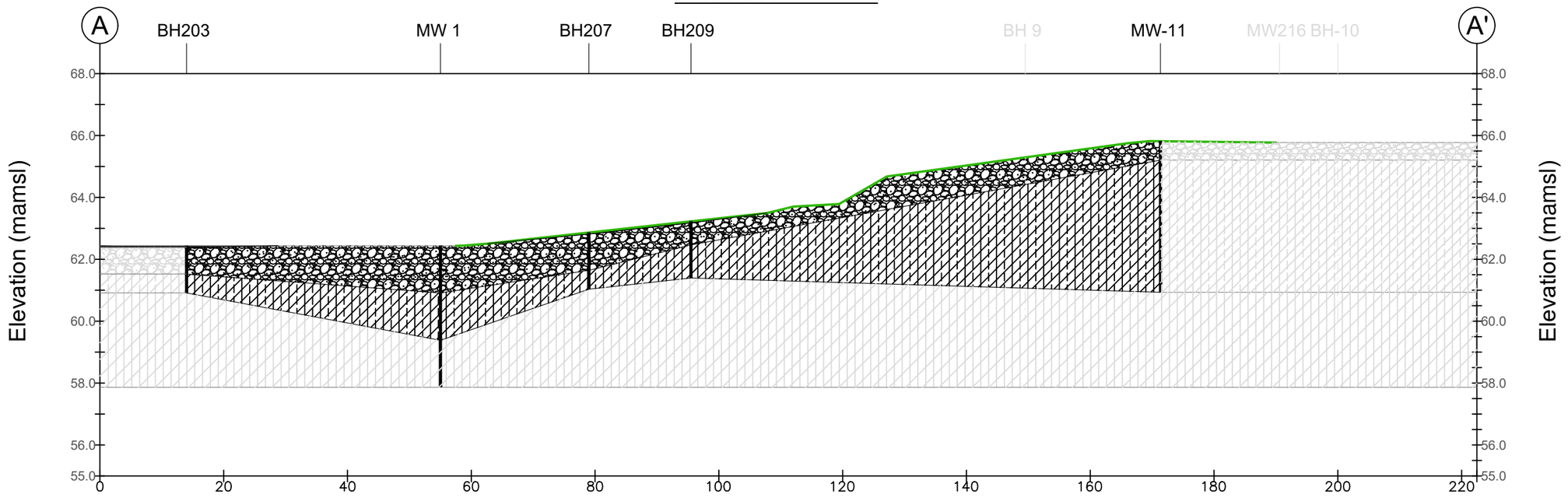
CLIENT NAME: 25 PICKERING HOLDINGS INC.

PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME: PLAN VIEW SHOWING VOC CONCENTRATIONS IN SOIL PRIOR TO REMEDIATION

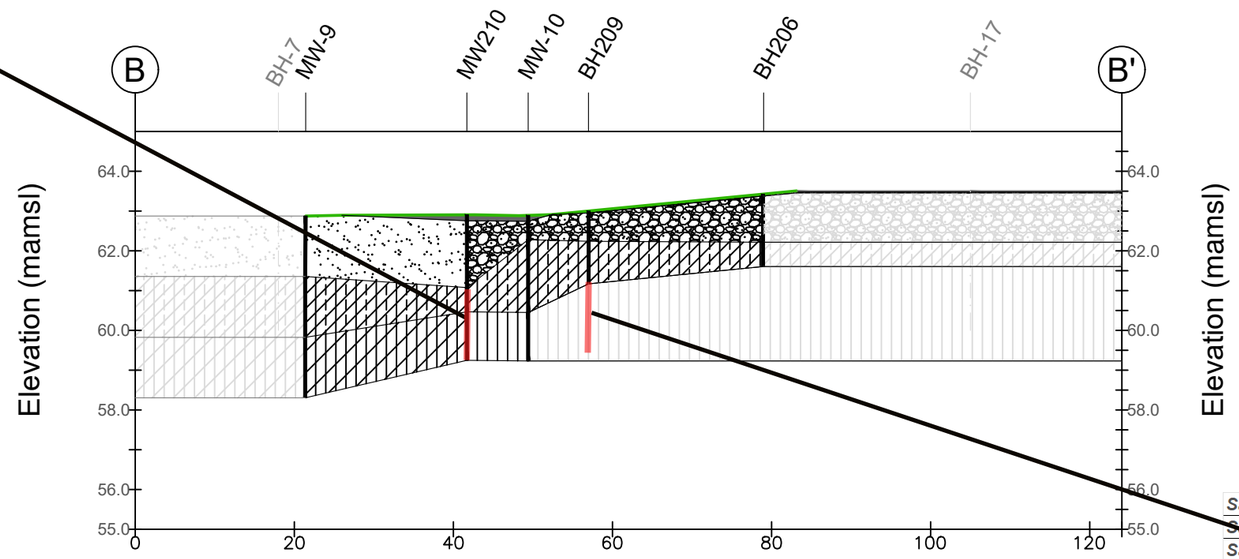
PROJECT NUMBER:	SCALE:
267991.007	1:1000
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 10A

Cross Section A - A'



Cross Section B - B'

Sample Designation	MW210 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW210
Chlorobenzene	<0.050
1,4-Dichlorobenzene	0.15



Sample Designation	BH209 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	BH209
Chlorobenzene	6.3
1,4-Dichlorobenzene	81

LEGEND

- EXISTING GROUND
- INFERRED GROUND
- GRAVEL
- CLAY
- SAND
- SILT
- INFERRED AREA
- EXCEEDS APPLICABLE STANDARDS/CRITERIA
- MEETS APPLICABLE STANDARDS/CRITERIA

Table 3 Standards	
Chlorobenzene	2.7
1,4-Dichlorobenzene	0.097

PINCHIN

PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: 25 PICKERING HOLDINGS INC.

PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME: CROSS SECTIONS SHOWING VOC CONCENTRATIONS PRIOR TO REMEDIATION

PROJECT NUMBER:	SCALE:
267991.007	AS SHOWN
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 10B

Sample Designation	BH204 SS-1	DUP-3
Sample Depth (mbgs)	0.15 - 0.75	0.15 - 0.75
Sample Location	BH204	BH204
PHCs F1 (C_6 - C_{10})	<10	<10
PHCs F2 (>C_{10} - C_{16})	<10	11
PHCs F3 (>C_{16} - C_{34})	320	410
PHCs F4 (>C_{34} - C_{50})	590	780

Sample Designation	BH207 SS-2
Sample Depth (mbgs)	0.51 - 1.22
Sample Location	BH207
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	58
PHCs F3 (>C_{16} - C_{34})	1200
PHCs F4 (>C_{34} - C_{50})	400

Sample Designation	BH205 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH205
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	<10
PHCs F3 (>C_{16} - C_{34})	<50
PHCs F4 (>C_{34} - C_{50})	<50

Sample Designation	MW214 SS-1	MW214 SS-3
Sample Depth (mbgs)	0.15 - 0.75	1.5 - 2.3
Sample Location	MW214	MW214
PHCs F1 (C_6 - C_{10})	<10	<10
PHCs F2 (>C_{10} - C_{16})	17	<10
PHCs F3 (>C_{16} - C_{34})	320	<50
PHCs F4 (>C_{34} - C_{50})	130	<50

Sample Designation	BH206 SS-1
Sample Depth (mbgs)	0.15 - 0.51
Sample Location	BH206
PHCs F1 (C_6 - C_{10})	57
PHCs F2 (>C_{10} - C_{16})	1300
PHCs F3 (>C_{16} - C_{34})	15000
PHCs F4 (>C_{34} - C_{50})	4200

Sample Designation	MW215 SS-3
Sample Depth (mbgs)	1.5 - 2.3
Sample Location	MW215
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	<10
PHCs F3 (>C_{16} - C_{34})	<50
PHCs F4 (>C_{34} - C_{50})	<50

Sample Designation	BH203 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH203
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	<10
PHCs F3 (>C_{16} - C_{34})	280
PHCs F4 (>C_{34} - C_{50})	420

Sample Designation	MW208 SS-1	MW208 SS-4
Sample Depth (mbgs)	0.15 - 0.75	2.4 - 2.9
Sample Location	MW208	MW208
PHCs F1 (C_6 - C_{10})	13	<10
PHCs F2 (>C_{10} - C_{16})	15	<10
PHCs F3 (>C_{16} - C_{34})	330	<50
PHCs F4 (>C_{34} - C_{50})	190	<50

Sample Designation	BH213 SS-4
Sample Depth (mbgs)	2.6 - 3.0
Sample Location	BH213
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	<10
PHCs F3 (>C_{16} - C_{34})	<50
PHCs F4 (>C_{34} - C_{50})	<50

Sample Designation	BH202 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH202
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	15
PHCs F3 (>C_{16} - C_{34})	830
PHCs F4 (>C_{34} - C_{50})	1700

Sample Designation	BH201 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH201
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	19
PHCs F3 (>C_{16} - C_{34})	250
PHCs F4 (>C_{34} - C_{50})	660

Sample Designation	MW212 SS-4	DUP-1
Sample Depth (mbgs)	2.6 - 3.0	2.6 - 3.0
Sample Location	MW212	MW212
PHCs F1 (C_6 - C_{10})	<10	<10
PHCs F2 (>C_{10} - C_{16})	<10	230
PHCs F3 (>C_{16} - C_{34})	<50	1700
PHCs F4 (>C_{34} - C_{50})	<50	190

Sample Designation	MW210 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW210
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	120
PHCs F3 (>C_{16} - C_{34})	1800
PHCs F4 (>C_{34} - C_{50})	180

Sample Designation	BH209 SS-1	BH209 SS-3
Sample Depth (mbgs)	0.15 - 0.75	1.2 - 1.8
Sample Location	BH209	BH209
PHCs F1 (C_6 - C_{10})	29	<10
PHCs F2 (>C_{10} - C_{16})	10	25
PHCs F3 (>C_{16} - C_{34})	210	710
PHCs F4 (>C_{34} - C_{50})	65	170

Sample Designation	MW211 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW211
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	<10
PHCs F3 (>C_{16} - C_{34})	<50
PHCs F4 (>C_{34} - C_{50})	<50

BH204 BH205 BH203 BH-1 BH-2 BH202 BH207 BH206 BH-17 MW214 BH-11 BH-12 MW-15 MW102 (2020) MW-2 MW-14 MW103 (2020) MW-16 MW-14A MW-4 MW101 (2020) MW-5 BH-6 BH-13 BH213 MW215 MW MW-1 BH-18 BH209 MW208 MW-10 MW210 MW211 MW212 BH-9 MW-11 MW216 MW-9 BH-7 MW-8 BH-8 MW-7 BH-10 BH-4 BH-6 BH201 BH-5

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N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDINGS
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- PINCHIN 2018 BOREHOLE/MONITORING WELL
- PINCHIN GEOTECHNICAL BOREHOLE
- EXCEEDS APPLICABLE STANDARDS/CRITERIA
- MEETS APPLICABLE STANDARDS/CRITERIA

Table 3 Standards	
PHCs F1 (C_6 - C_{10})	65
PHCs F2 (>C_{10} - C_{16})	150
PHCs F3 (>C_{16} - C_{34})	1300
PHCs F4 (>C_{34} - C_{50})	5600

INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

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PINCHIN

PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

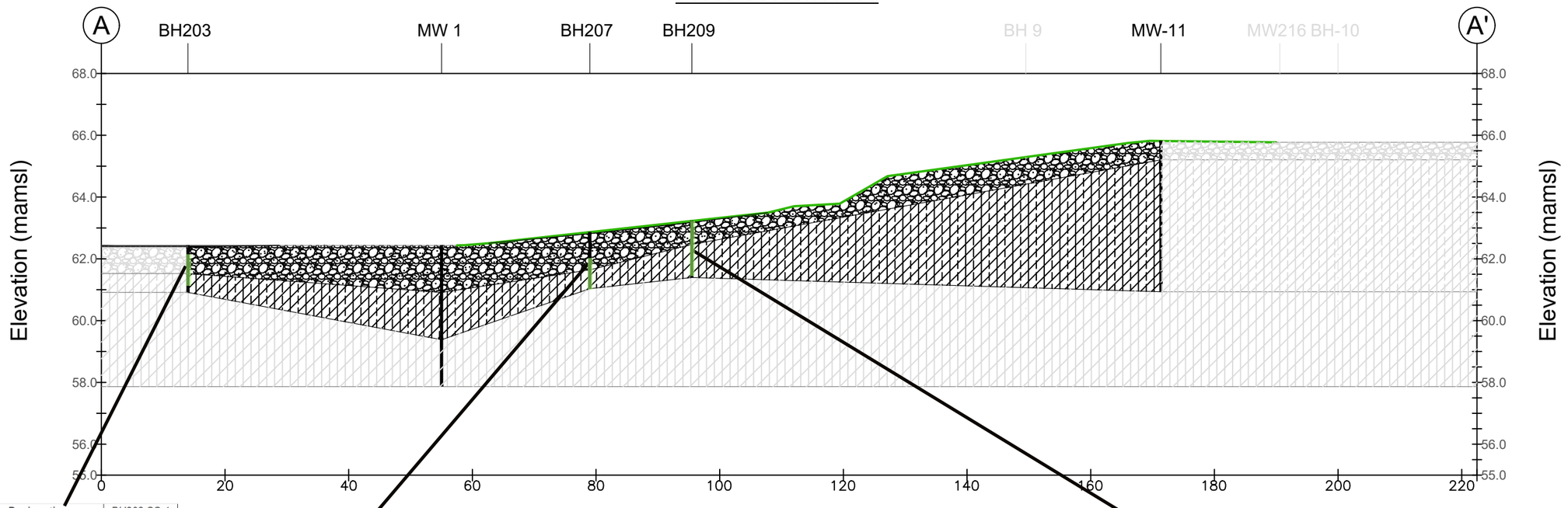
CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
PLAN VIEW SHOWING PHC CONCENTRATIONS IN SOIL PRIOR TO REMEDIATION

PROJECT NUMBER:	SCALE:
267991.007	1:1000
DRAWN BY:	REVIEWED BY:
DM	MK
DATE:	FIGURE NUMBER:
MAY 2025	11A

Cross Section A - A'



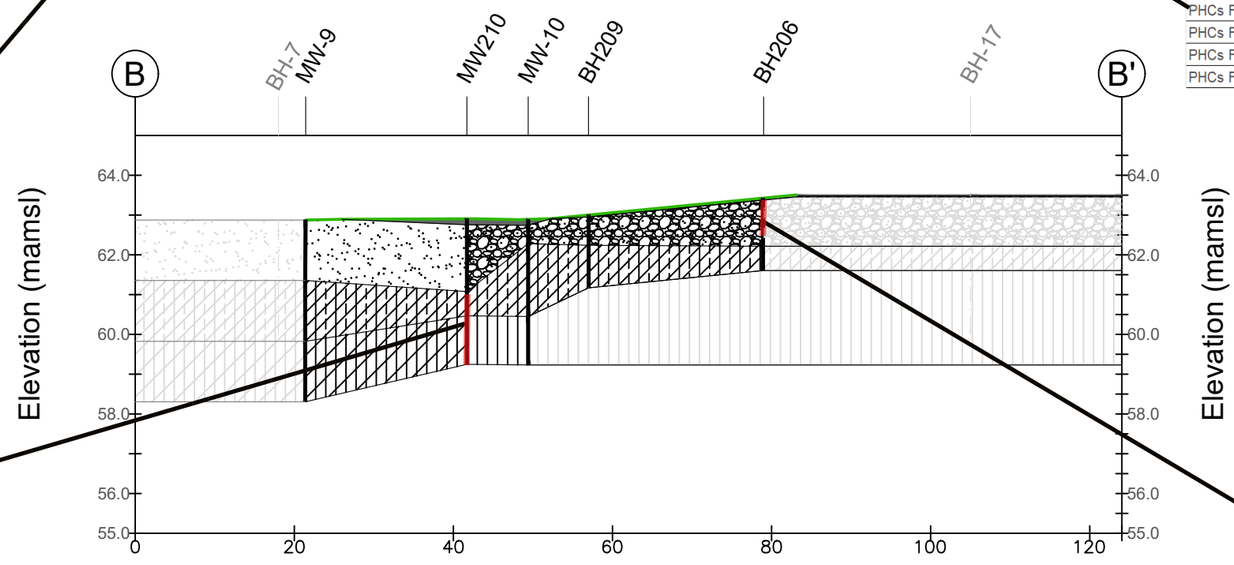
Sample Designation	BH203 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH203
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	<10
PHCs F3 (>C_{16} - C_{34})	280
PHCs F4 (>C_{34} - C_{50})	420

Sample Designation	BH207 SS-2
Sample Depth (mbgs)	0.51 - 1.22
Sample Location	BH207
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	58
PHCs F3 (>C_{16} - C_{34})	1200
PHCs F4 (>C_{34} - C_{50})	400

Sample Designation	MW210 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW210
PHCs F1 (C_6 - C_{10})	<10
PHCs F2 (>C_{10} - C_{16})	120
PHCs F3 (>C_{16} - C_{34})	1800
PHCs F4 (>C_{34} - C_{50})	180

Sample Designation	BH209 SS-1	BH209 SS-3
Sample Depth (mbgs)	0.15 - 0.75	1.2 - 1.8
Sample Location	BH209	BH209
PHCs F1 (C_6 - C_{10})	29	<10
PHCs F2 (>C_{10} - C_{16})	10	25
PHCs F3 (>C_{16} - C_{34})	210	710
PHCs F4 (>C_{34} - C_{50})	65	170

Cross Section B - B'



Sample Designation	BH206 SS-1
Sample Depth (mbgs)	0.15 - 0.51
Sample Location	BH206
PHCs F1 (C_6 - C_{10})	57
PHCs F2 (>C_{10} - C_{16})	1300
PHCs F3 (>C_{16} - C_{34})	15000
PHCs F4 (>C_{34} - C_{50})	4200

LEGEND

- EXISTING GROUND
- INFERRED GROUND
- GRAVEL
- CLAY
- SAND
- SILT
- INFERRED AREA
- EXCEEDS APPLICABLE STANDARDS/CRITERIA
- MEETS APPLICABLE STANDARDS/CRITERIA

Table 3 Standards	
PHCs F1 (C_6 - C_{10})	65
PHCs F2 (>C_{10} - C_{16})	150
PHCs F3 (>C_{16} - C_{34})	1300
PHCs F4 (>C_{34} - C_{50})	5600

PINCHIN

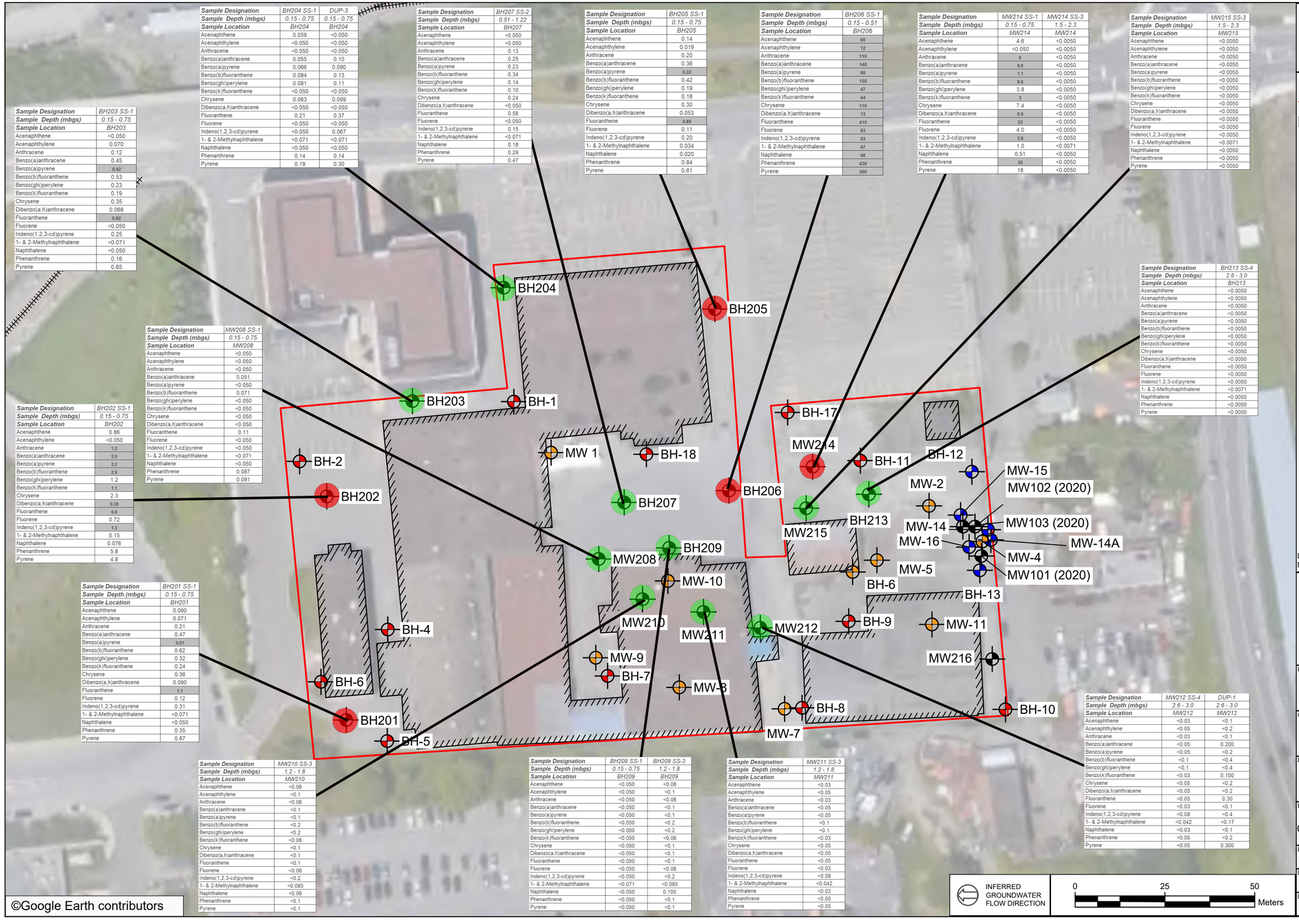
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
CROSS SECTIONS SHOWING PHC CONCENTRATIONS PRIOR TO REMEDIATION

PROJECT NUMBER:	SCALE:
267991.007	AS SHOWN
DRAWN BY:	REVIEWED BY:
DM	MK
DATE:	FIGURE NUMBER:
MAY 2025	11B



Sample Designation	BH204 SS-1	DUP-3
Sample Depth (mbgs)	0.15 - 0.75	0.15 - 0.75
Sample Location	BH204	BH204
Acenaphthene	0.059	<0.050
Acenaphthylene	<0.050	<0.050
Anthracene	<0.050	<0.050
Benzo(a)anthracene	0.055	0.10
Benzo(a)pyrene	0.066	0.090
Benzo(b)fluoranthene	0.084	0.13
Benzo(ghi)perylene	0.081	0.11
Benzo(k)fluoranthene	<0.050	<0.050
Chrysene	0.063	0.099
Dibenzo(a,h)anthracene	<0.050	<0.050
Fluoranthene	0.21	0.37
Fluorene	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	<0.050	0.067
1- & 2-Methylnaphthalene	<0.071	<0.071
Naphthalene	<0.050	<0.050
Phenanthrene	0.14	0.14
Pyrene	0.19	0.30

Sample Designation	BH207 SS-2
Sample Depth (mbgs)	0.51 - 1.22
Sample Location	BH207
Acenaphthene	<0.050
Acenaphthylene	<0.050
Anthracene	0.13
Benzo(a)anthracene	0.25
Benzo(a)pyrene	0.23
Benzo(b)fluoranthene	0.34
Benzo(ghi)perylene	0.14
Benzo(k)fluoranthene	0.10
Chrysene	0.24
Dibenzo(a,h)anthracene	<0.050
Fluoranthene	0.58
Fluorene	<0.050
Indeno(1,2,3-cd)pyrene	0.15
1- & 2-Methylnaphthalene	<0.071
Naphthalene	0.18
Phenanthrene	0.29
Pyrene	0.47

Sample Designation	BH205 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH205
Acenaphthene	0.14
Acenaphthylene	0.019
Anthracene	0.20
Benzo(a)anthracene	0.36
Benzo(a)pyrene	0.32
Benzo(b)fluoranthene	0.42
Benzo(ghi)perylene	0.19
Benzo(k)fluoranthene	0.18
Chrysene	0.30
Dibenzo(a,h)anthracene	0.053
Fluoranthene	0.85
Fluorene	0.11
Indeno(1,2,3-cd)pyrene	0.20
1- & 2-Methylnaphthalene	0.034
Naphthalene	0.020
Phenanthrene	0.84
Pyrene	0.61

Sample Designation	BH206 SS-1
Sample Depth (mbgs)	0.15 - 0.51
Sample Location	BH206
Acenaphthene	60
Acenaphthylene	12
Anthracene	110
Benzo(a)anthracene	140
Benzo(a)pyrene	99
Benzo(b)fluoranthene	150
Benzo(ghi)perylene	47
Benzo(k)fluoranthene	44
Chrysene	110
Dibenzo(a,h)anthracene	13
Fluoranthene	410
Fluorene	93
Indeno(1,2,3-cd)pyrene	53
1- & 2-Methylnaphthalene	47
Naphthalene	48
Phenanthrene	430
Pyrene	300

Sample Designation	MW214 SS-1	MW214 SS-3
Sample Depth (mbgs)	0.15 - 0.75	1.5 - 2.3
Sample Location	MW214	MW214
Acenaphthene	4.6	<0.0050
Acenaphthylene	<0.050	<0.0050
Anthracene	6	<0.0050
Benzo(a)anthracene	8.6	<0.0050
Benzo(a)pyrene	7.1	<0.0050
Benzo(b)fluoranthene	8.6	<0.0050
Benzo(ghi)perylene	3.8	<0.0050
Benzo(k)fluoranthene	3	<0.0050
Chrysene	7.4	<0.0050
Dibenzo(a,h)anthracene	0.9	<0.0050
Fluoranthene	23	<0.0050
Fluorene	4.0	<0.0050
Indeno(1,2,3-cd)pyrene	3.9	<0.0050
1- & 2-Methylnaphthalene	1.0	<0.0071
Naphthalene	0.51	<0.0050
Phenanthrene	25	<0.0050
Pyrene	18	<0.0050

Sample Designation	MW215 SS-3
Sample Depth (mbgs)	1.5 - 2.3
Sample Location	MW215
Acenaphthene	<0.0050
Acenaphthylene	<0.0050
Anthracene	<0.0050
Benzo(a)anthracene	<0.0050
Benzo(a)pyrene	<0.0050
Benzo(b)fluoranthene	<0.0050
Benzo(ghi)perylene	<0.0050
Benzo(k)fluoranthene	<0.0050
Chrysene	<0.0050
Dibenzo(a,h)anthracene	<0.0050
Fluoranthene	<0.0050
Fluorene	<0.0050
Indeno(1,2,3-cd)pyrene	<0.0050
1- & 2-Methylnaphthalene	<0.0071
Naphthalene	<0.0050
Phenanthrene	<0.0050
Pyrene	<0.0050

Sample Designation	BH213 SS-4
Sample Depth (mbgs)	2.6 - 3.0
Sample Location	BH213
Acenaphthene	<0.0050
Acenaphthylene	<0.0050
Anthracene	<0.0050
Benzo(a)anthracene	<0.0050
Benzo(a)pyrene	<0.0050
Benzo(b)fluoranthene	<0.0050
Benzo(ghi)perylene	<0.0050
Benzo(k)fluoranthene	<0.0050
Chrysene	<0.0050
Dibenzo(a,h)anthracene	<0.0050
Fluoranthene	<0.0050
Fluorene	<0.0050
Indeno(1,2,3-cd)pyrene	<0.0050
1- & 2-Methylnaphthalene	<0.0071
Naphthalene	<0.0050
Phenanthrene	<0.0050
Pyrene	<0.0050

Sample Designation	BH203 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH203
Acenaphthene	<0.050
Acenaphthylene	0.070
Anthracene	0.12
Benzo(a)anthracene	0.45
Benzo(a)pyrene	0.42
Benzo(b)fluoranthene	0.53
Benzo(ghi)perylene	0.23
Benzo(k)fluoranthene	0.19
Chrysene	0.35
Dibenzo(a,h)anthracene	0.068
Fluoranthene	0.82
Fluorene	<0.050
Indeno(1,2,3-cd)pyrene	0.25
1- & 2-Methylnaphthalene	<0.071
Naphthalene	<0.050
Phenanthrene	0.16
Pyrene	0.65

Sample Designation	MW208 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	MW208
Acenaphthene	<0.050
Acenaphthylene	<0.050
Anthracene	<0.050
Benzo(a)anthracene	0.051
Benzo(a)pyrene	<0.050
Benzo(b)fluoranthene	0.071
Benzo(ghi)perylene	<0.050
Benzo(k)fluoranthene	<0.050
Chrysene	<0.050
Dibenzo(a,h)anthracene	<0.050
Fluoranthene	0.11
Fluorene	<0.050
Indeno(1,2,3-cd)pyrene	<0.050
1- & 2-Methylnaphthalene	<0.071
Naphthalene	<0.050
Phenanthrene	0.087
Pyrene	0.091

Sample Designation	BH202 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH202
Acenaphthene	0.86
Acenaphthylene	<0.050
Anthracene	1.2
Benzo(a)anthracene	2.5
Benzo(a)pyrene	2.2
Benzo(b)fluoranthene	2.9
Benzo(ghi)perylene	1.2
Benzo(k)fluoranthene	1.1
Chrysene	2.3
Dibenzo(a,h)anthracene	0.36
Fluoranthene	5.6
Fluorene	0.72
Indeno(1,2,3-cd)pyrene	1.3
1- & 2-Methylnaphthalene	0.15
Naphthalene	0.076
Phenanthrene	5.8
Pyrene	4.8

Sample Designation	BH201 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH201
Acenaphthene	0.090
Acenaphthylene	0.071
Anthracene	0.21
Benzo(a)anthracene	0.47
Benzo(a)pyrene	0.61
Benzo(b)fluoranthene	0.62
Benzo(ghi)perylene	0.32
Benzo(k)fluoranthene	0.24
Chrysene	0.36
Dibenzo(a,h)anthracene	0.090
Fluoranthene	1.1
Fluorene	0.12
Indeno(1,2,3-cd)pyrene	0.31
1- & 2-Methylnaphthalene	<0.071
Naphthalene	<0.050
Phenanthrene	0.35
Pyrene	0.87

Sample Designation	MW210 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW210
Acenaphthene	<0.06
Acenaphthylene	<0.1
Anthracene	<0.06
Benzo(a)anthracene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.2
Benzo(ghi)perylene	<0.2
Benzo(k)fluoranthene	<0.06
Chrysene	<0.1
Dibenzo(a,h)anthracene	<0.1
Fluoranthene	<0.1
Fluorene	<0.06
Indeno(1,2,3-cd)pyrene	<0.2
1- & 2-Methylnaphthalene	<0.085
Naphthalene	<0.06
Phenanthrene	<0.1
Pyrene	<0.1

Sample Designation	BH209 SS-1	BH209 SS-3
Sample Depth (mbgs)	0.15 - 0.75	1.2 - 1.8
Sample Location	BH209	BH209
Acenaphthene	<0.050	<0.06
Acenaphthylene	<0.050	<0.1
Anthracene	<0.050	<0.06
Benzo(a)anthracene	<0.050	<0.1
Benzo(a)pyrene	<0.050	<0.1
Benzo(b)fluoranthene	<0.050	<0.2
Benzo(ghi)perylene	<0.050	<0.2
Benzo(k)fluoranthene	<0.050	<0.06
Chrysene	<0.050	<0.1
Dibenzo(a,h)anthracene	<0.050	<0.1
Fluoranthene	<0.050	<0.1
Fluorene	<0.050	<0.06
Indeno(1,2,3-cd)pyrene	<0.050	<0.2
1- & 2-Methylnaphthalene	<0.071	<0.085
Naphthalene	<0.050	0.100
Phenanthrene	<0.050	<0.1
Pyrene	<0.050	<0.1

Sample Designation	MW211 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW211
Acenaphthene	<0.03
Acenaphthylene	<0.05
Anthracene	<0.03
Benzo(a)anthracene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.1
Benzo(ghi)perylene	<0.1
Benzo(k)fluoranthene	<0.03
Chrysene	<0.05
Dibenzo(a,h)anthracene	<0.05
Fluoranthene	<0.05
Fluorene	<0.03
Indeno(1,2,3-cd)pyrene	<0.08
1- & 2-Methylnaphthalene	<0.042
Naphthalene	<0.03
Phenanthrene	<0.05
Pyrene	<0.05

Sample Designation	MW212 SS-4	DUP-1
Sample Depth (mbgs)	2.6 - 3.0	2.6 - 3.0
Sample Location	MW212	MW212
Acenaphthene	<0.03	<0.1
Acenaphthylene	<0.05	<0.2
Anthracene	<0.03	<0.1
Benzo(a)anthracene	<0.05	0.200
Benzo(a)pyrene	<0.05	<0.2
Benzo(b)fluoranthene	<0.1	<0.4
Benzo(ghi)perylene	<0.1	<0.4
Benzo(k)fluoranthene	<0.03	0.100
Chrysene	<0.05	<0.2
Dibenzo(a,h)anthracene	<0.05	<0.2
Fluoranthene	<0.05	0.30
Fluorene	<0.03	<0.1
Indeno(1,2,3-cd)pyrene	<0.08	<0.4
1- & 2-Methylnaphthalene	<0.042	<0.17
Naphthalene	<0.03	<0.1
Phenanthrene	<0.05	<0.2
Pyrene	<0.05	0.300

Table 3 Standards	
Acenaphthene	58
Acenaphthylene	0.17
Anthracene	0.74
Benzo(a)anthracene	0.63
Benzo(a)pyrene	0.3
Benzo(b)fluoranthene	0.78
Benzo(ghi)perylene	7.8
Benzo(k)fluoranthene	0.78
Chrysene	7.8
Dibenzo(a,h)anthracene	0.1
Fluoranthene	0.69
Fluorene	69
Indeno(1,2,3-cd)pyrene	0.48
1- & 2-Methylnaphthalene	3.4
Naphthalene	0.75
Phenanthrene	7.8
Pyrene	78

PINCHIN

PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

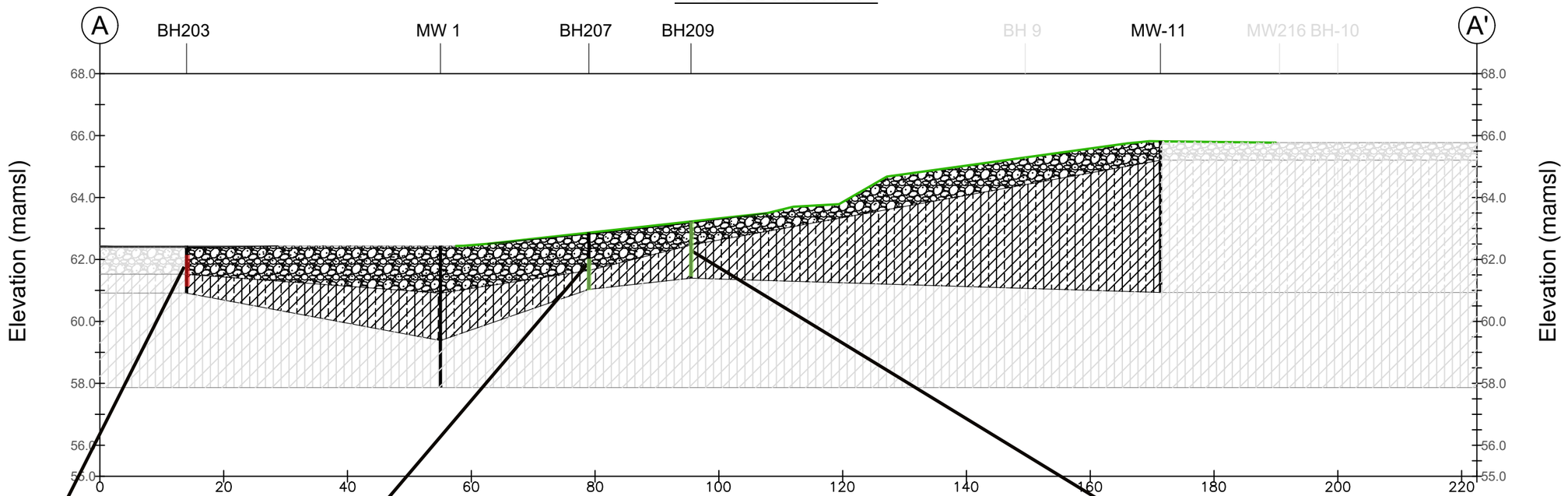
CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
PLAN VIEW SHOWING PAH CONCENTRATIONS IN SOIL PRIOR TO REMEDIATION

PROJECT NUMBER:	SCALE:
267991.007	1:1000
DRAWN BY:	REVIEWED BY:
DM	MK
DATE:	FIGURE NUMBER:
MAY 2025	12A

Cross Section A - A'

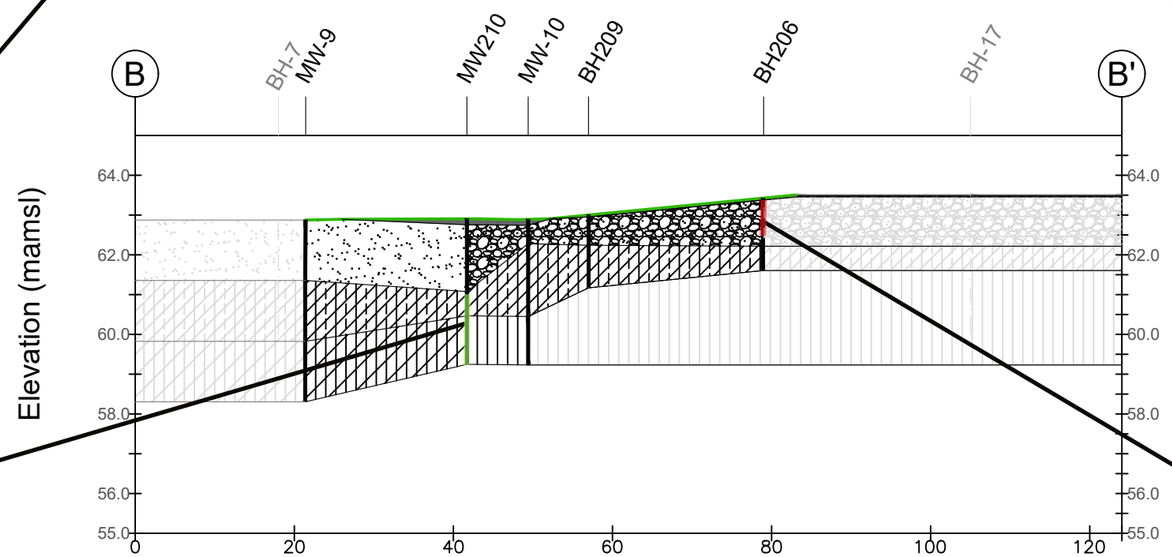


Sample Designation	BH203 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH203
Acenaphthene	<0.050
Acenaphthylene	0.070
Anthracene	0.12
Benzo(a)anthracene	0.45
Benzo(a)pyrene	0.42
Benzo(b)fluoranthene	0.53
Benzo(ghi)perylene	0.23
Benzo(k)fluoranthene	0.19
Chrysene	0.35
Dibenzo(a,h)anthracene	0.068
Fluoranthene	0.82
Fluorene	<0.050
Indeno(1,2,3-cd)pyrene	0.25
1- & 2-Methylnaphthalene	<0.071
Naphthalene	<0.050
Phenanthrene	0.16
Pyrene	0.65

Sample Designation	BH207 SS-2
Sample Depth (mbgs)	0.51 - 1.22
Sample Location	BH207
Acenaphthene	<0.050
Acenaphthylene	<0.050
Anthracene	0.13
Benzo(a)anthracene	0.25
Benzo(a)pyrene	0.23
Benzo(b)fluoranthene	0.34
Benzo(ghi)perylene	0.14
Benzo(k)fluoranthene	0.10
Chrysene	0.24
Dibenzo(a,h)anthracene	<0.050
Fluoranthene	0.58
Fluorene	<0.050
Indeno(1,2,3-cd)pyrene	0.15
1- & 2-Methylnaphthalene	<0.071
Naphthalene	0.18
Phenanthrene	0.29
Pyrene	0.47

Sample Designation	MW210 SS-3
Sample Depth (mbgs)	1.2 - 1.8
Sample Location	MW210
Acenaphthene	<0.06
Acenaphthylene	<0.1
Anthracene	<0.06
Benzo(a)anthracene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.2
Benzo(ghi)perylene	<0.2
Benzo(k)fluoranthene	<0.06
Chrysene	<0.1
Dibenzo(a,h)anthracene	<0.1
Fluoranthene	<0.1
Fluorene	<0.06
Indeno(1,2,3-cd)pyrene	<0.2
1- & 2-Methylnaphthalene	<0.085
Naphthalene	<0.06
Phenanthrene	<0.1
Pyrene	<0.1

Cross Section B - B'



Sample Designation	BH209 SS-1	BH209 SS-3
Sample Depth (mbgs)	0.15 - 0.75	1.2 - 1.8
Sample Location	BH209	BH209
Acenaphthene	<0.050	<0.06
Acenaphthylene	<0.050	<0.1
Anthracene	<0.050	<0.06
Benzo(a)anthracene	<0.050	<0.1
Benzo(a)pyrene	<0.050	<0.1
Benzo(b)fluoranthene	<0.050	<0.2
Benzo(ghi)perylene	<0.050	<0.2
Benzo(k)fluoranthene	<0.050	<0.06
Chrysene	<0.050	<0.1
Dibenzo(a,h)anthracene	<0.050	<0.1
Fluoranthene	<0.050	<0.1
Fluorene	<0.050	<0.06
Indeno(1,2,3-cd)pyrene	<0.050	<0.2
1- & 2-Methylnaphthalene	<0.071	<0.085
Naphthalene	<0.050	0.100
Phenanthrene	<0.050	<0.1
Pyrene	<0.050	<0.1

Sample Designation	BH206 SS-1
Sample Depth (mbgs)	0.15 - 0.51
Sample Location	BH206
Acenaphthene	60
Acenaphthylene	12
Anthracene	110
Benzo(a)anthracene	140
Benzo(a)pyrene	99
Benzo(b)fluoranthene	150
Benzo(ghi)perylene	47
Benzo(k)fluoranthene	44
Chrysene	110
Dibenzo(a,h)anthracene	13
Fluoranthene	410
Fluorene	93
Indeno(1,2,3-cd)pyrene	53
1- & 2-Methylnaphthalene	47
Naphthalene	48
Phenanthrene	430
Pyrene	300

LEGEND

- EXISTING GROUND
- INFERRED GROUND
- GRAVEL
- CLAY
- SAND
- SILT
- INFERRED AREA
- EXCEEDS APPLICABLE STANDARDS/CRITERIA
- MEETS APPLICABLE STANDARDS/CRITERIA

Table 3 Standards	
Acenaphthene	58
Acenaphthylene	0.17
Anthracene	0.74
Benzo(a)anthracene	0.63
Benzo(a)pyrene	0.3
Benzo(b)fluoranthene	0.78
Benzo(ghi)perylene	7.8
Benzo(k)fluoranthene	0.78
Chrysene	7.8
Dibenzo(a,h)anthracene	0.1
Fluoranthene	0.69
Fluorene	69
Indeno(1,2,3-cd)pyrene	0.48
1- & 2-Methylnaphthalene	3.4
Naphthalene	0.75
Phenanthrene	7.8
Pyrene	78

PINCHIN

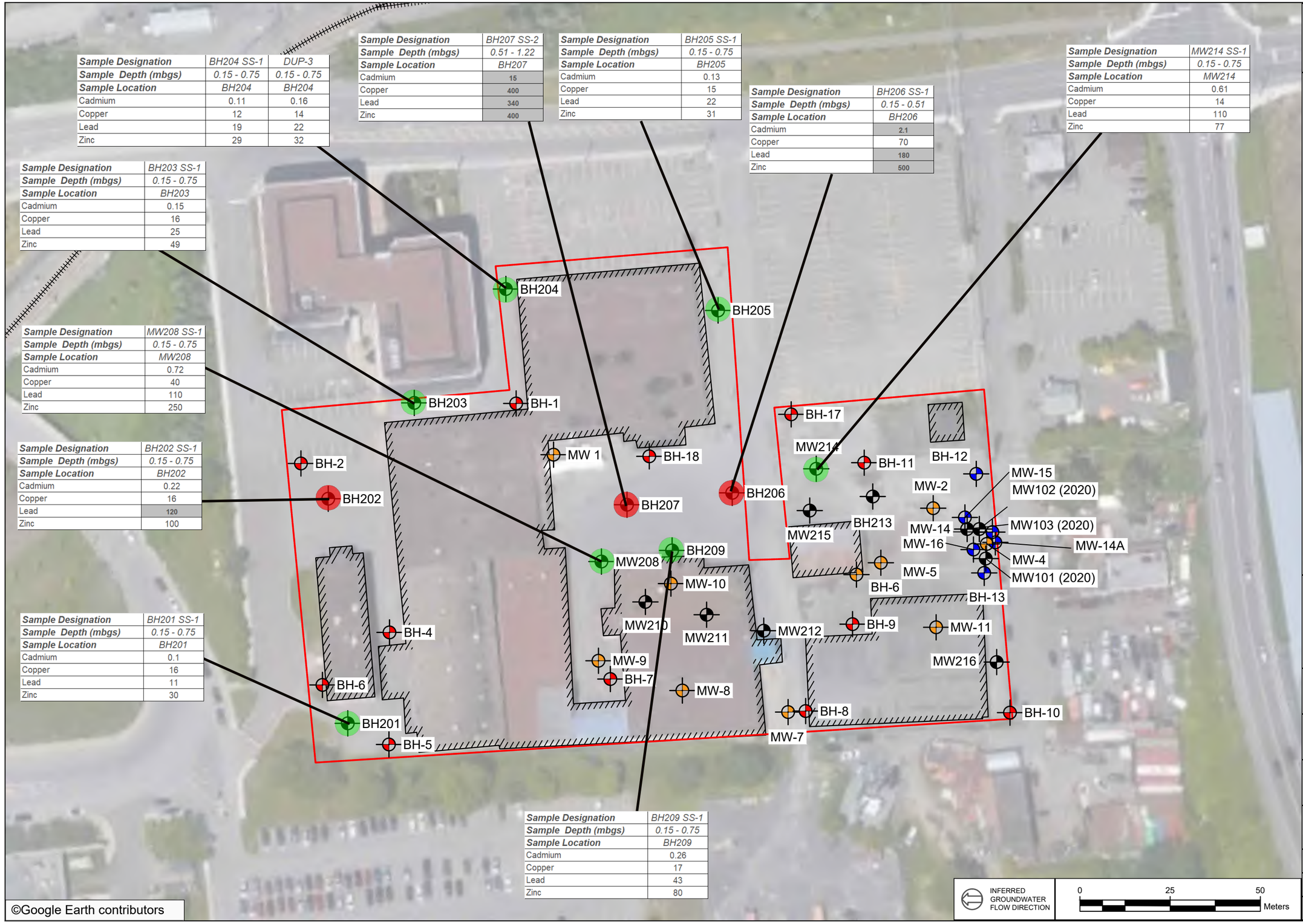
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
CROSS SECTIONS SHOWING PAH CONCENTRATIONS PRIOR TO REMEDIATION

PROJECT NUMBER:	SCALE:
267991.007	AS SHOWN
DRAWN BY:	REVIEWED BY:
DM	MK
DATE:	FIGURE NUMBER:
MAY 2025	12B



Sample Designation	BH204 SS-1	DUP-3
Sample Depth (mbgs)	0.15 - 0.75	0.15 - 0.75
Sample Location	BH204	BH204
Cadmium	0.11	0.16
Copper	12	14
Lead	19	22
Zinc	29	32

Sample Designation	BH207 SS-2
Sample Depth (mbgs)	0.51 - 1.22
Sample Location	BH207
Cadmium	15
Copper	400
Lead	340
Zinc	400

Sample Designation	BH205 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH205
Cadmium	0.13
Copper	15
Lead	22
Zinc	31

Sample Designation	BH206 SS-1
Sample Depth (mbgs)	0.15 - 0.51
Sample Location	BH206
Cadmium	2.1
Copper	70
Lead	180
Zinc	500

Sample Designation	MW214 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	MW214
Cadmium	0.61
Copper	14
Lead	110
Zinc	77

Sample Designation	BH203 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH203
Cadmium	0.15
Copper	16
Lead	25
Zinc	49

Sample Designation	MW208 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	MW208
Cadmium	0.72
Copper	40
Lead	110
Zinc	250

Sample Designation	BH202 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH202
Cadmium	0.22
Copper	16
Lead	120
Zinc	100

Sample Designation	BH201 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH201
Cadmium	0.1
Copper	16
Lead	11
Zinc	30

Sample Designation	BH209 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH209
Cadmium	0.26
Copper	17
Lead	43
Zinc	80

N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDINGS
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- PINCHIN 2018 BOREHOLE/MONITORING WELL
- PINCHIN GEOTECHNICAL BOREHOLE
- EXCEEDS APPLICABLE STANDARDS/CRITERIA
- MEETS APPLICABLE STANDARDS/CRITERIA

Table 3 Standards	
Cadmium	1.2
Copper	180
Lead	120
Zinc	340

INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

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PINCHIN

PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: 25 PICKERING HOLDINGS INC.

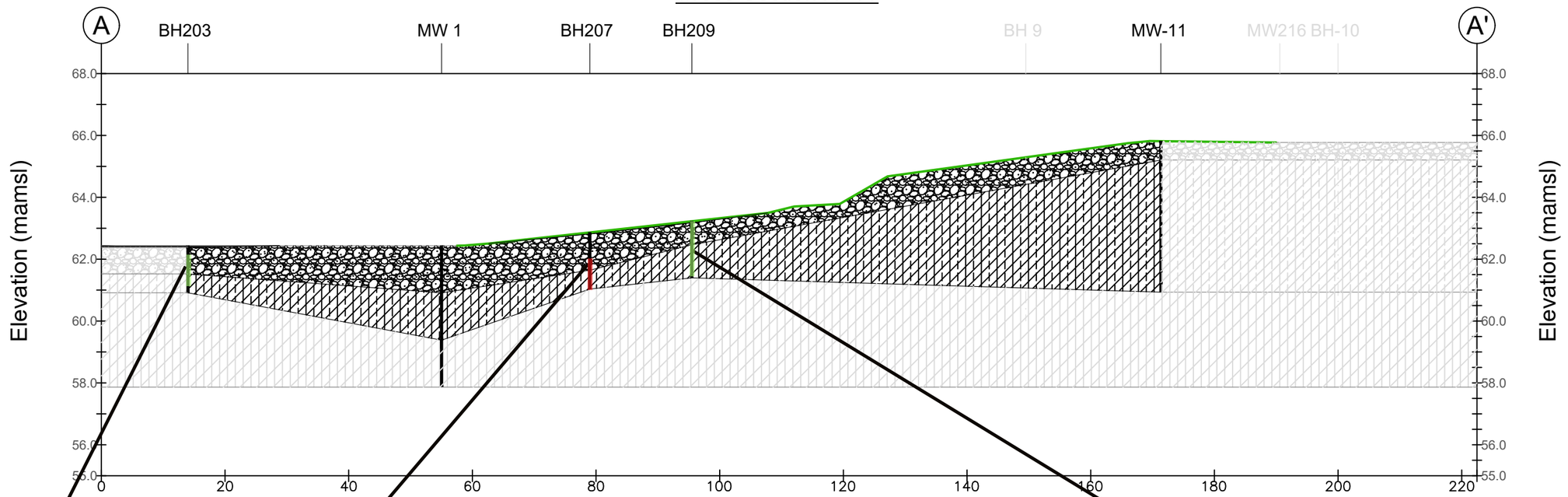
PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME: PLAN VIEW SHOWING METAL CONCENTRATIONS IN SOIL PRIOR TO REMEDIATION

PROJECT NUMBER:	SCALE:
267991.007	1:1000
DRAWN BY: DM	REVIEWED BY: MK
DATE: MAY 2025	FIGURE NUMBER: 13A

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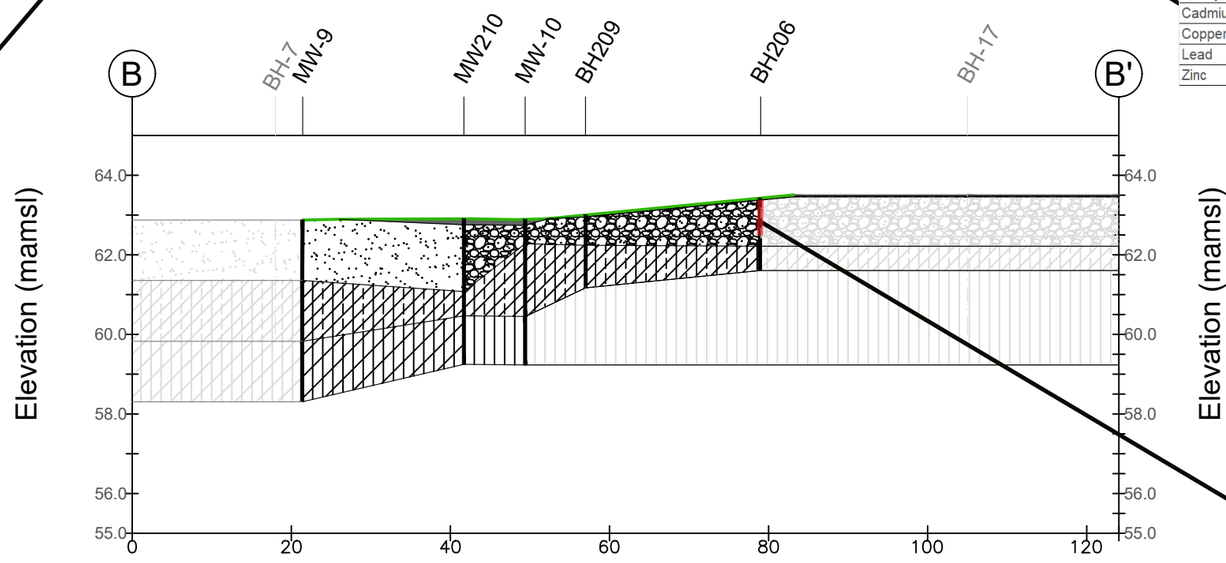
Cross Section A - A'



Sample Designation	BH203 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH203
Cadmium	0.15
Copper	16
Lead	25
Zinc	49

Sample Designation	BH207 SS-2
Sample Depth (mbgs)	0.51 - 1.22
Sample Location	BH207
Cadmium	15
Copper	400
Lead	340
Zinc	400

Cross Section B - B'



Sample Designation	BH209 SS-1
Sample Depth (mbgs)	0.15 - 0.75
Sample Location	BH209
Cadmium	0.26
Copper	17
Lead	43
Zinc	80

Sample Designation	BH206 SS-1
Sample Depth (mbgs)	0.15 - 0.51
Sample Location	BH206
Cadmium	2.1
Copper	70
Lead	180
Zinc	500

LEGEND

- EXISTING GROUND
- INFERRED GROUND
- GRAVEL
- CLAY
- SAND
- SILT
- INFERRED AREA
- EXCEEDS APPLICABLE STANDARDS/CRITERIA
- MEETS APPLICABLE STANDARDS/CRITERIA

Table 3 Standards	
Cadmium	1.2
Copper	180
Lead	120
Zinc	340

PINCHIN

PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
CROSS SECTIONS SHOWING METAL CONCENTRATIONS PRIOR TO REMEDIATION

PROJECT NUMBER:	SCALE:
267991.007	AS SHOWN
DRAWN BY:	REVIEWED BY:
DM	MK
DATE:	FIGURE NUMBER:
MAY 2025	13B

Table 1 - Table of Areas of Potential Environmental Concern

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-1 (Manufacturing of various cleaning products within Site Building A)	Throughout the Site Buildings (except Building F) and former on-Site buildings.	Item 8 - Chemical Manufacturing, Processing and Bulk Storage	On-Site	PHCs BTEX PAHs VOCs ABNs CPs	Soil and Groundwater
APEC-2 (Drainage trench and two associated pits present in Site Building A that collect wastewater)	North portion of Site Building A.	Other - Wastewater Generation	On-Site	PHCs BTEX PAHs VOCs ABNs CPs	Soil and Groundwater
APEC-3 (A pad-mounted oil-cooled transformer)	Central portion of the Phase One Property	Item 55 - Transformer Manufacturing, Processing and Use	On-Site	PHCs BTEX PCBs	Soil

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-4 (2,000-gallon fuel oil tank (associated with an 'oil house'))	South-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil and Groundwater
APEC-5 (10,000-gallon "nuso" oil tank (associated with an 'oil house'))	South-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil and Groundwater
APEC-6 (Former 3,790-L varsol underground storage tank (UST))	Adjacent to the east elevation of Site Building D	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-7 (Former varsol UST (size unknown))	Adjacent to the north elevation of Site Building D	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater
APEC-8 (Various former ASTs (contents unknown))	Adjacent to the north and west elevations of Site Building A	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater
APEC-9 (Former varsol UST (size unknown))	Near the south boundary of the Phase One Property, between Site Buildings A and E	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-10 (Various gasoline and diesel USTs, associated with a former private fuel outlet)	East-central portion of the Phase One Property (near the boundary)	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs Metals	Soil and Groundwater
APEC-11 (Fill material identified on-Site by previous subsurface investigations)	Throughout the Phase One Property	Item 30 - Importation of Fill Material of Unknown Quality	On-Site	PAHs PHCs Metals As, Sb, Se B-HWS Cr (VI) Hg CN^- EC SAR	Soil
APEC-12 (Former diesel AST)	North-central portion of Site Building E.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-13 (Application of road salt)	Parking areas and walkways at the Phase One Property.	Other – Road Salting Activities	On-Site	EC SAR	Soil
APEC-14 (Automotive repair/servicing operation located at 1333 Avenue L)	East portion of the Phase One Property	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	PHCs BTEX PAHs VOCs Metals	Groundwater
APEC-15 (Retail fuel outlet with associated USTs located at 1333 Avenue L)	East portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs BTEX PAHs VOCs Metals	Groundwater

Notes:

1 - Areas of potential environmental concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,

(a) identification of past or present uses on, in or under the phase one property, and

(b) identification of potentially contaminating activity.

2 - Potentially contaminating activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area

3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

List of Method Groups:

ABNs	PCBs	Metals	Electrical Conductivity
CPs	PAHs	As, Sb, Se	Cr (VI)
1,4-Dioxane	THMs	Na	Hg
Dioxins/Furans, PCDDs/PCDFs	VOCs	B-HWS	Methyl Mercury
OCs	BTEX	Cl-	Low or high pH,
PHCs	Ca, Mg	CN-	SAR

4 - When submitting a record of site condition for filing, a copy of this table must be attached

Table 2 - Table of Potentially Contaminating Activities

PCA Designation	Location of Potentially Contaminating Activity	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Distance from Phase One Property (metres)	Location Relative to Inferred Groundwater Flow Direction[1]	Contributing to an APEC at the Site (Yes/No)	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
PCA-1	Manufacturing of various cleaning products within Site Building A.	Item 8 - Chemical Manufacturing, Processing and Bulk Storage	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-2	Drainage trench and two associated pits present in Site Building A that collect wastewater.	Other - Wastewater Generation	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-3	A pad-mounted oil-cooled transformer located on the central portion of the Phase One Property.	Item 55 - Transformer Manufacturing, Processing and Use	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil
PCA-4	A former 2,000-gallon fuel oil tank (associated with an 'oil house') located on the south-central portion of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-5	A former 10,000-gallon "nuso" oil tank (associated with an 'oil house') located on the south-central portion of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-6	Former 3,790-L varsol UST located adjacent to the east elevation of Site Building D.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-7	Former varsol UST (size unknown) located adjacent to the north elevation of Site Building D.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-8	Various ASTs (contents unknown) located adjacent to the north and west elevations of Site Building A.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-9	Former varsol UST (size unknown) located near the south boundary of the Phase One Property, between Site Buildings A and E.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater

PCA Designation	Location of Potentially Contaminating Activity	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Distance from Phase One Property (metres)	Location Relative to Inferred Groundwater Flow Direction[1]	Contributing to an APEC at the Site (Yes/No)	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
PCA-10	Various gasoline and diesel USTs, associated with a former private fuel outlet, located on the east-central portion of the Phase One Property (near the boundary).	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil and Groundwater
PCA-11	Fill material identified throughout the Phase One Property by previous subsurface investigations.	Item 30 - Importation of Fill Material of Unknown Quality	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil
PCA-12	Diesel AST formerly located in the north-central portion of Site Building E.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil
PCA-13	Application of road salt in parking areas and walkways at the Phase One Property.	Other - Road Salting Activities	On-Site	NA – On-Site PCA	NA - On-Site PCA	Yes	Soil
PCA-14	Automotive repair/servicing operation located east of the Phase One Property.	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	20	Upgradient	Yes	Groundwater
PCA-15	Retail fuel outlet with associated USTs located east of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	20	Upgradient	Yes	Groundwater
PCA-16	Current and former railway lines located south of the Phase One Property.	Item 46 - Rail Yards, Tracks and Spurs	Off-Site	5 to 115	Transgradient	No	Not Applicable
PCA-17	PFO with associated USTs located northeast of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	185	Transgradient	No	Not Applicable
PCA-18	Registered Federal Contaminated Site at 433 Terminal Avenue (Via Rail Canada Inc.) located southwest of the Phase One Property.	Other – Federal Contaminated Site	Off-Site	20	Downgradient	No	Not Applicable
PCA-19	PFO at 433 Terminal Avenue (Via Rail Canada Inc.) located southwest of the Phase One Property.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	215	Downgradient	No	Not Applicable

PCA Designation	Location of Potentially Contaminating Activity	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Distance from Phase One Property (metres)	Location Relative to Inferred Groundwater Flow Direction[1]	Contributing to an APEC at the Site (Yes/No)	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
PCA-20	PCB storage (i.e., ballasts and other equipment) at 433 Terminal Avenue (Via Rail Canada Inc.) located southwest of the Phase One Property.	Other - Hazardous Waste Generation	Off-Site	215	Downgradient	No	Not Applicable
PCA-21	PCB storage (i.e., ballasts and other equipment) at 330 Coventry Road located north of the Phase One Property.	Other - Hazardous Waste Generation	Off-Site	215	Transgradient	No	Not Applicable
PCA-22	Railway lines located north of the Phase One Property.	Item 46 - Rail Yards, Tracks and Spurs	Off-Site	45 to 55	Transgradient	No	Not Applicable

Notes:

APEC – Area of Potential Environmental Concern

AST – Aboveground Storage Tank

L - Litre

PCA – Potentially Contaminating Activity

PCB – Polychlorinated Biphenyls

PFO – Private Fuel Outlet

UST – Underground Storage Tank

1 – Location of PCA relative to the Phase One Property in relation to the inferred groundwater flow direction in the Phase One Study Area

TABLE 3
SOIL BULK ANALYTICAL RESULTS
Colonnade BridgePort
25 Picking Place, Ottawa, Ontario

Sample Designation	BH201 SS-1	BH202 SS-1	BH203 SS-1	BH204 SS-1	DUP-3	BH205 SS-1	BH206 SS-1	BH207 SS-2	MW208 SS-1	MW208 SS-4	BH209 SS-1	BH209 SS-3	MW210 SS-3	MW211 SS-3	MW212 SS-4	DUP-1	BH213 SS-4	MW214 SS-1	MW214 SS-3	MW215 SS-3	MECP Table 3 SCS
Sample Collection Date (dd/mm/yyyy)	17/05/2021	17/05/2021	17/05/2021	17/05/2021	17/05/2021	14/05/2021	14/05/2021	17/05/2021	17/05/2021	17/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021	17/05/2021	17/05/2021	17/05/2021	17/05/2021	17/05/2021	17/05/2021	
Sample Depth (mbgs)	0.15 - 0.75	0.15 - 0.75	0.15 - 0.75	0.15 - 0.75	0.15 - 0.75	0.15 - 0.75	0.15 - 0.51	0.51 - 1.22	0.15 - 0.75	2.4 - 2.9	0.15 - 0.75	1.2 - 1.8	1.2 - 1.8	1.2 - 1.8	2.6 - 3.0	2.6 - 3.0	2.6 - 3.0	0.15 - 0.75	1.5 - 2.3	1.5 - 2.3	
Sample Location	BH201	BH202	BH203	BH204	BH204	BH205	BH206	BH207	MW208	MW208	BH209	BH209	MW210	MW211	MW212	MW212	BH213	MW214	MW214	MW215	
Laboratory Certificate of Analysis No.	C1D6657	C1D6657	C1D6657	C1D6657	C1D6657	C1D6657	C1D6657	C1D6657	C1D6657	C1D6657	C1D6669	C1D6669	C1D6669	C1D6669	C1D6669	C1D6669	C1D6669	C1D6669	C1D6669	C1D6669	
Date of Analysis (dd/mm/yyyy)	28/05/2021	28/05/2021	28/05/2021	28/05/2021	28/05/2021	28/05/2021	28/05/2021	28/05/2021	28/05/2021	28/05/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	
Miscellaneous Parameters																					
pH (pH Units)	-	-	-	-	-	-	-	7.37	-	-	7.86	-	-	-	7.35	-	7.58	-	-		NV
Sieve #200 <0.075 mm (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NV
Sieve #200 >0.075 mm (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NV
Soil Texture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NV
Volatile Organic Compounds																					
Acetone	-	-	-	-	-	-	-	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	28
Benzene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.055	0.037	<0.020	<0.020	<0.020	0.040	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.17
Bromodichloromethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	13
Bromoform	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.26
Bromomethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.05
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.12
Chlorobenzene	-	-	-	-	-	-	-	-	-	<0.050	-	**6.3**	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	2.7
Chloroform	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.18
Dibromochloromethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	9.4
1,2-Dichlorobenzene	-	-	-	-	-	-	-	-	-	<0.050	-	0.15	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	4.3
1,3-Dichlorobenzene	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	6
1,4-Dichlorobenzene	-	-	-	-	-	-	-	-	-	<0.050	-	**81**	**0.15**	<0.050	<0.050	**0.13**	<0.050	-	<0.050	<0.050	0.097
Dichlorodifluoromethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	25
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	11
1,2-Dichloroethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.05
1,1-Dichloroethylene	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.05
cis-1,2-Dichloroethylene	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	30
trans-1,2-Dichloroethylene	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.75
1,2-Dichloropropane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.085
1,3-Dichloropropene (Total)	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.083
Ethylbenzene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.18	<0.020	<0.020	<0.020	<0.020	0.027	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	15
Ethylene Dibromide	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.05
Hexane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	34
Methyl Ethyl Ketone	-	-	-	-	-	-	-	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	44
Methyl Isobutyl Ketone	-	-	-	-	-	-	-	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	4.3
Methyl t-Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	1.4
Methylene Chloride	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.96
Styrene	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	2.2
1,1,1,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.05
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.05
Tetrachloroethylene	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	2.3
Toluene	<0.020	0.021	<0.020	<0.020	<0.020	0.022	0.29	0.098	0.078	<0.020	0.035	0.026	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	6
1,1,1-Trichloroethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	3.4
1,1,2-Trichloroethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.05
Trichloroethylene	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.52
Trichlorofluoromethane	-	-	-	-	-	-	-	-	-	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	5.8
Vinyl Chloride	-	-	-	-	-	-	-	-	-	<0.020	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	-	<0.020	<0.020	0.022
Xylenes (Total)	<0.040	0.042	<0.040	0.13	0.12	0.077	1.9	0.13	0.091	<0.020	0.066	0.16	<0.020	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	25
Petroleum Hydrocarbons (PHCs)																					
PHCs F1 (C_6 - C_{10})	<10	<10	<10	<10	<10	<10	57	<10	13	<10	29	<10	<10	<10	<10	<10	<10	<10	<10	<10	65
PHCs F2 (>C_{10} - C_{16})	19	15	<10	<10	11	<10	**1300**	58	15	<10	10	25	120	<10	<10	**230**	<10	17	<10	<10	150
PHCs F3 (>C_{16} - C_{34})	250	830	280	320	410	<50	**15000**	1200	330	<50	210	710	**1800**	<50	<50	**1700**	<50	320	<50	<50	1300
PHCs F4 (>C_{34} - C_{50})	660	1700	420	590	780	<50	4200	400	190	<50	65	170	180	<50	<50	190	<50	130	<50	<50	5600
Polycyclic Aromatic Hydrocarbons																					
Acenaphthene	0.090	0.86	<0.050	0.059	<0.050	0.14	**60**	<0.050	<0.050	-	<0.050	<0.06	<0.06	<0.03	<0.03	<0.1	<0.0050	4.6	<0.0050	<0.0050	58
Acenaphthylene	0.071	<0.050	0.070	<0.050	<0.050	0.019	**12**	<0.050	<0.050	-	<0.050	<0.1	<0.1	<0.05	<0.05	<0.2	<0.0050	<0.050	<0.0050	<0.0050	0.17
Anthracene	0.21	**1.2**	0.12	<0.050	<0.050	0.20	**110**	0.13	<0.050	-	<0.050	<0.06	<0.06	<0.03	<0.03	<0.1	<0.0050	**6**	<0.0050	<0.0050	0.74
Benzo(a)anthracene	0.47	**2.5**	0.45	0.055	0.10	0.36	**140**	0.25	0.051	-	<0.050	<0.1	<0.1	<0.05	<0.05	0.200	<0.0050	**8.6**	<0.0050	<0.0050	0.63
Benzo(a)pyrene	**0.51**	**2.2**	**0.42**	0.066	0.090	**0.32**	**99**	0.23	<0.050	-	<0.050	<0.1	<0.1	<0.05	<0.05	<0.2	<0.0050	**7.1**	<0.0050	<0.0050	0.3
Benzo(b)fluoranthene	0.62	**2.9**	0.53	0.084	0.13	0.42	**150**	0.34	0.071	-	<0.050	<0.2	<0.2	<0.1	<0.1	<0.4	<0.0050	**8.6**	<0.0050	<0.0050	0.78
Benzo(ghi)perylene	0.32	1.2	0.23	0.081	0.11	0.19	**47**	0.14	<0.050	-	<0.050	<0.2	<0.2	<0.1	<0.1	<0.4	<0.0050	3.8	<0.0050	<0.0050	7.8
Benzo(k)fluoranthene	0.24	**1.1**	0.19	<0.050	<0.050	0.18	**44**	0.10	<0.050	-	<0.050	<0.06	<0.06	<0.03	<0.03	0.100	<0.0050	**3**	<0.0050	<0.0050	0.78
Chrysene	0.36	2.3	0.35	0.063	0.099	0.30	**110**	0.24	<0.050	-	<0.050	<0.1	<0.1	<0.05	<0.05	<0.2	<0.0050	7.4	<0.0050	<0.0050	7.8
Dibenzo(a,h)anthracene	0.090	**0.36**	0.068	<0.050	<0.050	0.053	**13**	<0.050	<0.050	-	<0.050	<0.1	<0.1	<0.05	<0.05	<0.2	<0.0050	**0.9**	<0.0050	<0.0050	0.1
Fluoranthene	**1.1**	**6.6**	**0.82**	0.21	0.37	**0.85**	**410**	0.58	0.11	-	<0.050	<0.1	<0.1	<0.05	<0.05	0.30	<0.0050	**23**	<0.0050	<0.0050	0.69
Fluorene	0.12	0.72	<0.050	<0.050	<0.050	0.11	**93**	<0.050	<0.050	-	<0.050	<0.06	<0.06	<0.03	<0.03	<0.1	<0.0050	4.0	<0.0050	<0.0050	69
Indeno(1,2,3-cd)pyrene	0.31	**1.3**	0.25	<0.050	0.067	0.20	**53**	0.15	<0.050	-	<0.050	<0.2	<0.2	<0.08	<0.08	<0.4	<0.0050	**3.9**	<0.0050	<0.0050	0.48
1- & 2-Methylnaphthalene	<0.071	0.15	<0.071	<0.071	<0.071	0.034	**47**	<0.071	<0.071	<0.042	<0.071	<0.085	<0.085	<0.042	<0.042	<0.17	<0.0071	1.0	<0.0071	<0.0071	3.4
Naphthalene	<0.050	0.076	<0.050	<0.050	<0.050	0.020	**48**	0.18	<0.050	-	<0.050	0.100	<0.06	<0.03	<0.03	<0.1	<0.0050	0.51	<0.0050	<0.0050	0.75
Phenanthrene	0.35	5.8	0.16	0.14	0.14	0.84	**430**	0.29	0.087	-	<0.050	<0.1	<0.1	<0.05	<0.05	<0.2	<0.0050	**25**	<0.0050	<0.0050	7.8
Pyrene	0.87	4.8	0.65	0.19	0.30	0.61	**300**	0.47	0.091	-	<0.050	<0.1	<0.1	<0.05	<0.05	0.300	<0.0050	18	<0.0050	<0.0050	78

TABLE 3
SOIL BULK ANALYTICAL RESULTS
Colonnade BridgePort
25 Picking Place, Ottawa, Ontario

Metals																					
Antimony	<0.20	0.49	<0.20	<0.20	0.23	<0.20	2	4.4	1.9	-	0.63	-	-	-	-	-	-	1.1	-	-	7.5
Arsenic	1.8	4.5	3.1	3.3	3	1.9	3.4	9.3	3.8	-	1.3	-	-	-	-	-	-	2.3	-	-	18
Barium	90	150	94	85	77	63	230	340	160	-	95	-	-	-	-	-	-	79	-	-	390
Beryllium	0.34	0.37	0.36	0.27	0.33	0.31	0.39	0.39	0.41	-	0.24	-	-	-	-	-	-	0.34	-	-	5
Boron (Total)	6.1	6.3	<5.0	5.7	6.4	5.5	5.2	7.5	10	-	5.2	-	-	-	-	-	-	<5.0	-	-	120
Boron (Hot Water Soluble)	0.25	0.37	0.53	0.37	0.37	0.21	0.33	0.87	0.49	-	0.24	-	-	-	-	-	-	0.13	-	-	1.5
Cadmium	0.1	0.22	0.15	0.11	0.16	0.13	**2.1**	**15**	0.72	-	0.26	-	-	-	-	-	-	0.61	-	-	1.2
Chromium (Total)	17	21	23	14	18	15	33	62	32	-	19	-	-	-	-	-	-	25	-	-	160
Chromium (Hexavalent)	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	-	<0.18	-	-	-	-	-	-	<0.18	-	-	10
Cobalt	6.7	5.5	7.4	6.1	6.2	6.4	7.4	8.3	7.1	-	4.4	-	-	-	-	-	-	6.7	-	-	22
Copper	16	16	16	12	14	15	70	**400**	40	-	17	-	-	-	-	-	-	14	-	-	180
Lead	11	**120**	25	19	22	22	**180**	**340**	110	-	43	-	-	-	-	-	-	110	-	-	120
Mercury	<0.050	0.076	0.1	<0.050	<0.050	0.098	0.15	0.11	0.073	-	<0.050	-	-	-	-	-	-	<0.050	-	-	1.8
Molybdenum	1.1	1.2	1.6	3	2.5	0.71	0.76	3.5	1.7	-	0.75	-	-	-	-	-	-	0.69	-	-	6.9
Nickel	16	14	15	13	14	14	20	39	20	-	9.7	-	-	-	-	-	-	14	-	-	130
Selenium	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	-	-	-	-	-	<0.50	-	-	2.4
Silver	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.3	<0.20	<0.20	-	<0.20	-	-	-	-	-	-	<0.20	-	-	25
Thallium	0.15	0.19	0.16	0.15	0.15	0.11	0.16	0.15	0.13	-	0.097	-	-	-	-	-	-	0.11	-	-	1
Uranium	0.82	0.58	1	0.7	0.69	0.51	0.7	0.71	0.65	-	0.57	-	-	-	-	-	-	0.63	-	-	23
Vanadium	26	24	30	19	23	23	34	38	25	-	23	-	-	-	-	-	-	31	-	-	86
Zinc	30	100	49	29	32	31	**500**	**400**	250	-	80	-	-	-	-	-	-	77	-	-	340
Inorganics																					
Cyanide (Free)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0.051
Electrical Conductivity (mS/cm)	**0.94**	0.54	**1.8**	**1.1**	**1.2**	**1.3**	-	**2**	**1.2**	-	0.59	-	-	-	-	-	-	0.53	-		0.7
Sodium Adsorption Ratio (No Units)	**18**	4.7	**12**	**5.6**	**6.4**	1.6	-	**7.8**	1.8	-	1.1	-	-	-	-	-	-	**13**	-		5
Acid/Base/Neutral Compounds																					
1,1'-Biphenyl	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.05	<0.05	<0.2	-	-	-	-	1.1
Bis(2-chloroethyl)ether	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5
Bis(2-chloroisopropyl)ether	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	<0.1	<0.1	<0.4	-	-	-	-	1.8
Bis(2-ethylhexyl)phthalate	-	-	-	-	-	-	-	-	-	-	-	<2	<2	<1	<1	<4	-	-	-	-	5
p-Chloroaniline	-	-	-	-	-	-	-	-	-	-	-	<0.4	<0.4	<0.2	<0.2	**<0.8**	-	-	-	-	0.53
3,3'-Dichlorobenzidine	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<0.5	<0.5	**<2**	-	-	-	-	1
Diethyl Phthalate	-	-	-	-	-	-	-	-	-	-	-	<0.4	<0.4	<0.2	<0.2	**<0.8**	-	-	-	-	0.5
Dimethylphthalate	-	-	-	-	-	-	-	-	-	-	-	<0.4	<0.4	<0.2	<0.2	**<0.8**	-	-	-	-	0.5
2,4-Dimethylphenol	-	-	-	-	-	-	-	-	-	-	-	<0.4	<0.4	<0.2	<0.2	<0.8	-	-	-	-	420
2,4-Dinitrophenol	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<0.5	<0.5	<2	-	-	-	-	38
2,4- & 2,6-Dinitrotoluene	-	-	-	-	-	-	-	-	-	-	-	<0.28	<0.28	<0.14	<0.14	<0.57	-	-	-	-	0.92
Phenol	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	<0.09	<0.09	<0.4	-	-	-	-	9.4
1,2,4-Trichlorobenzene	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.05	<0.05	<0.2	-	-	-	-	1.4
Chlorophenols																					
2-Chlorophenol	-	-	-	-	-	-	-	-	-	<0.08	-	<0.2	<0.2	<0.08	<0.08	<0.3	-	-	-	-	2
2,4-Dichlorophenol	-	-	-	-	-	-	-	-	-	<0.1	-	<0.2	<0.2	<0.1	<0.1	<0.4	-	-	-	-	2.1
Pentachlorophenol	-	-	-	-	-	-	-	-	-	<0.1	-	**<0.2**	**<0.2**	<0.1	<0.1	**<0.4**	-	-	-	-	0.1
2,4,5-Trichlorophenol	-	-	-	-	-	-	-	-	-	<0.08	-	<0.2	<0.2	<0.08	<0.08	<0.3	-	-	-	-	5.5
2,4,6-Trichlorophenol	-	-	-	-	-	-	-	-	-	<0.1	-	<0.2	<0.2	<0.1	<0.1	<0.4	-	-	-	-	4.2
Polychlorinated Biphenyls (PCBs)																					
PCBs (Total)	-	-	-	-	-	-	<0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35

Notes:

MECP Table 3 SCS	Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Medium/Fine-Textured Soils
BOLD	Exceeds Site Condition Standard
BOLD	Reportable Detection Limit Exceeds Site Condition Standard
BOLD	Sample Location Was Remediated
Units	All Units In Micrograms Per Gram, Unless Otherwise Noted
mbgs	Metres Below Ground Surface
mS/cm	MilliSiemens Per Centimetre
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

TABLE 4

GROUNDWATER MONITORING WELL ELEVATIONS AND CONSTRUCTION DETAILS

Colonnade BridgePort

25 Picking Place, Ottawa, Ontario

Monitoring Well	*Ground Surface Elevation (mamsl)*	*Top of Pipe Elevation (mamsl)*	*Well Construction Details*						
			Total Well Depth (mbgs)	*Stick-Up Height (metres)*	*Well Diameter (centimetres)*	*Screen Slot Size*	*Monitoring Well Screen Interval (mbgs)*	*Screen Length (metres)*	*Sealant Thickness (metres)*
MW-1	62.40	62.25	4.6	-0.15	3.8	10	1.5 - 4.6	3.1	1.2
MW-7	65.07	65.03	4.6	-0.04	3.8	10	1.5 - 4.6	3.1	1.2
MW-8	62.99	62.89	3.7	-0.10	3.2	10	0.9 - 3.7	2.7	0.7
MW-9	62.87	62.83	4.6	-0.04	3.8	10	1.5 - 4.6	3.1	1.2
MW-10	63.01	62.90	3.7	-0.11	3.2	10	0.9 - 3.7	2.7	0.7
MW-11	65.87	65.77	4.9	-0.10	3.2	10	1.5 - 4.6	3.1	1.5
MW-14A	65.39	65.26	4.6	-0.13	5.1	10	1.5 - 4.6	3.1	1.2
MW101	65.11	65.08	4.6	-0.03	5.1	10	1.5 - 4.6	3.1	1.2
MW102	65.07	64.95	4.6	-0.12	5.1	10	1.5 - 4.6	3.1	1.2
MW103	64.97	64.86	4.6	-0.11	5.1	10	1.5 - 4.6	3.1	1.2
MW208	62.67	62.58	3.1	-0.09	3.8	10	0.9 - 3.1	2.2	0.6
MW210	62.97	62.89	2.7	-0.08	5.1	10	0.9 - 2.7	1.8	0.6
MW211	63.02	62.89	3.7	-0.13	5.1	10	0.9 - 3.7	2.7	0.7
MW212	64.88	64.80	3.1	-0.08	5.1	10	0.9 - 3.1	2.1	0.7
MW214	64.37	64.29	3.1	-0.08	5.1	10	0.9 - 3.1	2.1	0.7
MW215	64.47	64.26	3.1	-0.21	5.1	10	0.9 - 3.1	2.1	0.7
MW216	65.78	65.60	3.1	-0.18	5.1	10	0.9 - 3.1	2.1	0.7

Notes:

mamsl Metres Above Mean Sea Level
mbgs Metres Below Ground Surface

TABLE 5
GROUNDWATER MONITORING - WATER LEVELS
Colonnade BridgePort
25 Picking Place, Ottawa, Ontario

Monitoring Well	*Ground Surface Elevation (mamsl)*	*Top of Pipe Elevation (mamsl)*	*Stick-Up Height (metres)*	*Date of Monitoring (dd/mm/yyyy)*	*Calculated Depth to Groundwater from Surface (mbgs)*	*Measured Depth to Groundwater from Top of Pipe (metres)*	*Groundwater Elevation (mamsl)*	*Visual/Olfactory Observations*
MW-1	62.40	62.25	-0.15	20/07/2021	1.31	1.16	61.09	-
MW-7	65.07	65.03	-0.04	20/07/2021	2.06	2.02	63.01	-
MW-8	62.99	62.89	-0.10	20/07/2021	0.68	0.58	62.31	-
MW-9	62.87	62.83	-0.04	02/06/2021	0.99	0.95	61.88	Clear, no odours.
				20/07/2021	0.95	0.91	61.92	-
MW-10	63.01	62.90	-0.11	02/06/2021	0.96	0.85	62.05	Cloudy, slight organic odours.
				20/07/2021	0.89	0.78	62.12	-
MW-11	65.87	65.77	-0.10	01/06/2021	2.36	2.26	63.51	Cloudy, no odours.
				20/07/2021	2.10	2.00	63.77	-
MW-14A	65.39	65.26	-0.13	01/06/2021	1.88	1.78	63.48	Clear, no odours.
				20/07/2021	2.10	1.97	63.29	-
MW101	65.11	65.08	-0.03	20/07/2021	1.42	1.39	63.69	-
MW102	65.07	64.95	-0.12	20/07/2021	1.94	1.82	63.13	-
MW103	64.97	64.86	-0.11	20/07/2021	1.98	1.87	62.99	-
MW208	62.67	62.58	-0.09	01/06/2021	1.10	1.01	61.57	Cloudy, grey, no odours.
				20/07/2021	0.98	0.89	61.69	-
MW210	62.97	62.89	-0.08	02/06/2021	0.99	0.90	61.99	Cloudy, organic-like odours, no sheen.
				20/07/2021	1.06	0.98	61.91	-
MW211	63.02	62.89	-0.13	02/06/2021	0.67	0.54	62.35	Cloudy, no odours.
				20/07/2021	0.77	0.64	62.25	-
MW212	64.88	64.80	-0.08	01/06/2021	2.25	2.12	62.68	Clear, no odours.
				20/07/2021	2.27	2.19	62.61	-
MW214	64.37	64.29	-0.08	01/06/2021	1.88	1.80	62.49	Clear, no odours.
				20/07/2021	2.08	2.00	62.29	-
MW215	64.47	64.26	-0.21	01/06/2021	1.60	1.52	62.74	Clear, no odours.
				20/07/2021	1.85	1.64	62.62	-
MW216	65.78	65.60	-0.18	01/06/2021	1.67	1.49	64.11	Clear, no odours.
				20/07/2021	1.73	1.55	64.05	-

Notes:
mamsl Metres Above Mean Sea Level
mbgs Metres Below Ground Surface

TABLE 6

GROUNDWATER MONITORING - NON-AQUEOUS PHASE LIQUIDS

Colonnade BridgePort

25 Picking Place, Ottawa, Ontario

Monitoring Well	*Top of Pipe Elevation (mamsl)*	*Date of Monitoring (dd/mm/yyyy)*	*LNAPL*					*DNAPL*				
			Measured Depth to Top of LNAPL from Top of Pipe (metres)	*Measured Depth to Bottom of LNAPL from Top of Pipe (metres)*	*LNAPL Thickness (metres)*	*Top of LNAPL Elevation (mamsl)*	*Bottom of LNAPL Elevation (mamsl)*	*Measured Depth to Top of DNAPL from Top of Pipe (metres)*	*Measured Depth to Bottom of DNAPL from Top of Pipe (metres)*	*DNAPL Thickness (metres)*	*Top of DNAPL Elevation (mamsl)*	*Bottom of DNAPL Elevation (mamsl)*
MW-9	62.83	02/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10	62.90	02/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	65.77	01/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-14A	65.26	01/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW208	62.58	01/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW210	62.89	02/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW211	62.89	02/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW212	64.80	01/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW214	64.29	01/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW215	64.26	01/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW216	65.60	01/06/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

DNAPL	Dense Non-Aqueous Phase Liquid
LNAPL	Light Non-Aqueous Phase Liquid
mamsl	Metres Above Mean Sea Level
mbgs	Metres Below Ground Surface
ND	Not Detected

TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Colonnade BridgePort
25 Picking Place, Ottawa, Ontario

Sample Designation	MW-9	DUP-5	MW-10	MW-11	MW14-A	DUP-4	MW208	DUP-6	MW210	MW211	MW212	MW214	MW215	MW216	MECP Table 3 SCS
Sample Collection Date (dd/mm/yyyy)	02/06/2021	02/06/2021	02/06/2021	02/06/2021	02/06/2021	02/06/2021	01/06/2021	01/06/2021	02/06/2021	01/06/2021	01/06/2021	01/06/2021	01/06/2021	01/06/2021	
Sample Depth (mbgs)	1.3	1.3	1.2	3.0	2.3	2.3	2.5	2.5	1.0	2.5	2.5	2.1	2.0	2.2	
Sample Location	MW-9	MW-9	MW-10	MW-11	MW-14A	MW-14A	MW208	MW208	MW210	MW211	MW212	MW214	MW215	MW216	
Laboratory Certificate of Analysis No.	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	C1F2589	
Date of Analysis (dd/mm/yyyy)	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	14/06/2021	
Volatile Organic Compounds															
Acetone	<10	<10	<10	<10	-	-	11	-	13	<10	<10	<10	<10	<10	130000
Benzene	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	430
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	85000
Bromoform	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	770
Bromomethane	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	56
Carbon Tetrachloride	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	8.4
Chlorobenzene	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	630
Chloroform	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	22
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	82000
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9600
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9600
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	67
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4400
1,1-Dichloroethane	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	3100
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	12
1,1-Dichloroethylene	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	17
cis-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17
trans-1,2-Dichloroethylene	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17
1,2-Dichloropropane	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	140
1,3-Dichloropropene (Total)	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	45
Ethylbenzene	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	2300
Ethylene Dibromide	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.83
Hexane	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	520
Methyl Ethyl Ketone	<10	<10	<10	<10	-	-	<10	-	<10	<10	<10	<10	<10	<10	1500000
Methyl Isobutyl Ketone	<5.0	<5.0	<5.0	<5.0	-	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	580000
Methyl t-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1400
Methylene Chloride	<2.0	<2.0	<2.0	<2.0	-	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5500
Styrene	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9100
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	28
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	15
Tetrachloroethylene	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	17
Toluene	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	0.32	<0.20	<0.20	<0.20	<0.20	<0.20	18000
1,1,1-Trichloroethane	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	6700
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	30
Trichloroethylene	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	17
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2500
Vinyl Chloride	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.7
Xylenes (Total)	<0.20	<0.20	<0.20	<0.20	-	-	0.3	-	0.22	<0.20	<0.20	<0.20	<0.20	<0.20	4200
Petroleum Hydrocarbons (PHCs)															
PHCs F1 (C_6 - C_{10})	<25	<25	<25	<25	-	-	<25	-	<25	<25	<25	<25	<25	<25	750
PHCs F2 (>C_{10} - C_{16})	<100	<100	<100	<100	-	-	120	-	<100	100	<100	<100	<100	<100	150
PHCs F3 (>C_{16} - C_{34})	<200	<200	250	<200	-	-	280	-	<200	210	420	<200	<200	<200	500
PHCs F4 (>C_{34} - C_{50})	<200	<200	<200	<200	-	-	<200	-	<200	<200	490	<200	<200	<200	500
Polycyclic Aromatic Hydrocarbons															
Acenaphthene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	1700
Acenaphthylene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	1.8
Anthracene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	2.4
Benzo(a)anthracene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	4.7
Benzo(a)pyrene	<0.0090	<0.0090	-	<0.0090	-	-	-	-	-	-	-	<0.0090	<0.0090	<0.0090	0.81
Benzo(b)fluoranthene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	0.75
Benzo(ghi)perylene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	0.2
Benzo(k)fluoranthene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	0.4
Chrysene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	1
Dibenzo(a,h)anthracene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	0.52
Fluoranthene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	130
Fluorene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	400
Indeno(1,2,3-cd)pyrene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	0.2
1- & 2-Methylnaphthalene	<0.071	<0.071	-	<0.071	-	-	-	-	-	-	-	<0.071	<0.071	<0.071	1800
Naphthalene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	6400
Phenanthrene	<0.030	<0.030	-	<0.030	-	-	-	-	-	-	-	<0.030	<0.030	<0.030	580
Pyrene	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	68

TABLE 7
GROUNDWATER ANALYTICAL RESULTS
Colonnade BridgePort
25 Picking Place, Ottawa, Ontario

Metals															
Antimony	-	-	-	-	<0.50	<0.50	-	-	-	-	-	-	-	-	20000
Arsenic	-	-	-	-	<1.0	<1.0	-	-	-	-	-	-	-	-	1900
Barium	-	-	-	-	160	160	-	-	-	-	-	-	-	-	29000
Beryllium	-	-	-	-	<0.40	<0.40	-	-	-	-	-	-	-	-	67
Boron (Total)	-	-	-	-	47	47	-	-	-	-	-	-	-	-	45000
Cadmium	-	-	-	-	<0.090	<0.090	-	-	-	-	-	-	-	-	2.7
Chromium (Total)	-	-	-	-	<5.0	<5.0	-	-	-	-	-	-	-	-	810
Chromium (Hexavalent)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140
Cobalt	-	-	-	-	2.8	2.8	-	-	-	-	-	-	-	-	66
Copper	-	-	-	-	<0.90	<0.90	-	-	-	-	-	-	-	-	87
Lead	-	-	-	-	<0.50	<0.50	-	-	-	-	-	-	-	-	25
Mercury	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8
Molybdenum	-	-	-	-	<0.50	<0.50	-	-	-	-	-	-	-	-	9200
Nickel	-	-	-	-	6.7	6.5	-	-	-	-	-	-	-	-	490
Selenium	-	-	-	-	<2.0	<2.0	-	-	-	-	-	-	-	-	63
Silver	-	-	-	-	<0.090	<0.090	-	-	-	-	-	-	-	-	1.5
Sodium	-	-	-	-	160000	150000	-	-	-	-	-	-	-	-	2300000
Thallium	-	-	-	-	<0.050	<0.050	-	-	-	-	-	-	-	-	510
Uranium	-	-	-	-	8.5	8.3	-	-	-	-	-	-	-	-	420
Vanadium	-	-	-	-	<0.50	<0.50	-	-	-	-	-	-	-	-	250
Zinc	-	-	-	-	<5.0	<5.0	-	-	-	-	-	-	-	-	1100
Acid/Base/Neutral Compounds															
1,1'-Biphenyl	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	2200
Bis(2-chloroethyl)ether	-	-	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	300000
Bis(2-chloroisopropyl)ether	-	-	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	20000
Bis(2-ethylhexyl)phthalate	-	-	<1	-	-	-	<1	<1	<1	<1	<1	-	-	-	140
p-Chloroaniline	-	-	<1	-	-	-	<1	<1	<1	<1	<1	-	-	-	400
3,3'-Dichlorobenzidine	-	-	<0.5	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	640
Diethyl Phthalate	-	-	0.1	-	-	-	1	0.9	0.1	0.1	<0.1	-	-	-	38
Dimethylphthalate	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	38
2,4-Dimethylphenol	-	-	<0.5	-	-	-	1.3	4.6	3.8	<0.5	<0.5	-	-	-	39000
2,4-Dinitrophenol	-	-	<2	-	-	-	<2	<2	<2	<2	<2	-	-	-	11000
2,4- & 2,6-Dinitrotoluene	-	-	<0.35	-	-	-	<0.35	<0.35	<0.35	<0.35	<0.35	-	-	-	2900
Phenol	-	-	<0.5	-	-	-	<0.5	<0.5	<0.5	1.2	<0.5	-	-	-	12000
1,2,4-Trichlorobenzene	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	850
Chlorophenols															
2-Chlorophenol	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	3300
2,4-Dichlorophenol	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	4600
Pentachlorophenol	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	62
2,4,5-Trichlorophenol	-	-	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	1600
2,4,6-Trichlorophenol	-	-	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	230

Notes:

MECP Table 3 SCS	Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for All Types of Property Use and Medium/Fine-Textured Soils
BOLD	Exceeds Site Condition Standard
BOLD	Reportable Detection Limit Exceeds Site Condition Standard
Units	All Units In Micrograms Per Litre, Unless Otherwise Noted
mbgs	Metres Below Ground Surface
TEQ	Toxic Equivalency Quotient

TABLE 8
MAXIMUM CONCENTRATIONS IN SOIL
Colonnade BridgePort
25 Picking Place, Ottawa, Ontario

Parameter	*Maximum Concentration*	*Sample Designation*	*Sample Location*	*Sample Depth (mbgs)*
Volatile Organic Compounds				
Acetone	<0.50	All Submitted Samples		
Benzene	0.055	BH206 SS-1	BH206	0.15 - 0.75
Bromodichloromethane	<0.050	All Submitted Samples		
Bromoform	<0.050	All Submitted Samples		
Bromomethane	<0.050	All Submitted Samples		
Carbon Tetrachloride	<0.050	All Submitted Samples		
Chlorobenzene	6.3	BH209 SS-3	BH209	1.5 - 2.3
Chloroform	<0.050	All Submitted Samples		
Dibromochloromethane	<0.050	All Submitted Samples		
1,2-Dichlorobenzene	0.15	BH209 SS-3	BH209	1.5 - 2.3
1,3-Dichlorobenzene	<0.050	All Submitted Samples		
1,4-Dichlorobenzene	81	BH209 SS-3	BH209	1.5 - 2.3
Dichlorodifluoromethane	<0.050	All Submitted Samples		
1,1-Dichloroethane	<0.050	All Submitted Samples		
1,2-Dichloroethane	<0.050	All Submitted Samples		
1,1-Dichloroethylene	<0.050	All Submitted Samples		
cis-1,2-Dichloroethylene	<0.050	All Submitted Samples		
trans-1,2-Dichloroethylene	<0.050	All Submitted Samples		
1,2-Dichloropropane	<0.030	All Submitted Samples		
1,3-Dichloropropene (Total)	<0.050	All Submitted Samples		
Ethylbenzene	0.18	BH206 SS-1	BH206	0.15 - 0.75
Ethylene Dibromide	<0.050	All Submitted Samples		
Hexane	<0.050	All Submitted Samples		
Methyl Ethyl Ketone	<0.50	All Submitted Samples		
Methyl Isobutyl Ketone	<0.50	All Submitted Samples		
Methyl t-Butyl Ether (MTBE)	<0.050	All Submitted Samples		
Methylene Chloride	<0.050	All Submitted Samples		
Styrene	<0.050	All Submitted Samples		
1,1,1,2-Tetrachloroethane	<0.050	All Submitted Samples		
1,1,2,2-Tetrachloroethane	<0.050	All Submitted Samples		
Tetrachloroethylene	<0.050	All Submitted Samples		
Toluene	0.26	BH209 SS-3	BH209	1.5 - 2.3
1,1,1-Trichloroethane	<0.050	All Submitted Samples		
1,1,2-Trichloroethane	<0.050	All Submitted Samples		
Trichloroethylene	<0.050	All Submitted Samples		
Trichlorofluoromethane	<0.050	All Submitted Samples		
Vinyl Chloride	<0.020	All Submitted Samples		
Xylenes (Total)	1.9	BH206 SS-1	BH206	0.15 - 0.75
Petroleum Hydrocarbons (PHCs)				
PHCs F1 (C_6 - C_{10})	57	BH206 SS-1	BH206	0.15 - 0.75
PHCs F2 (>C_{10} - C_{16})	1300	BH206 SS-1	BH206	0.15 - 0.75
PHCs F3 (>C_{16} - C_{34})	15000	BH206 SS-1	BH206	0.15 - 0.75
PHCs F4 (>C_{34} - C_{50})	4200	BH206 SS-1	BH206	0.15 - 0.75
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	60	BH206 SS-1	BH206	0.15 - 0.75
Acenaphthylene	12	BH206 SS-1	BH206	0.15 - 0.75
Anthracene	110	BH206 SS-1	BH206	0.15 - 0.75
Benzo(a)anthracene	140	BH206 SS-1	BH206	0.15 - 0.75
Benzo(a)pyrene	99	BH206 SS-1	BH206	0.15 - 0.75
Benzo(b)fluoranthene	150	BH206 SS-1	BH206	0.15 - 0.75
Benzo(ghi)perylene	47	BH206 SS-1	BH206	0.15 - 0.75
Benzo(k)fluoranthene	44	BH206 SS-1	BH206	0.15 - 0.75
Chrysene	110	BH206 SS-1	BH206	0.15 - 0.75
Dibenzo(a,h)anthracene	13	BH206 SS-1	BH206	0.15 - 0.75
Fluoranthene	410	BH206 SS-1	BH206	0.15 - 0.75
Fluorene	93	BH206 SS-1	BH206	0.15 - 0.75
Indeno(1,2,3-cd)pyrene	53	BH206 SS-1	BH206	0.15 - 0.75
Methylnaphthalene 2-(1-)	47	BH206 SS-1	BH206	0.15 - 0.75
Naphthalene	48	BH206 SS-1	BH206	0.15 - 0.75
Phenanthrene	430	BH206 SS-1	BH206	0.15 - 0.75
Pyrene	300	BH206 SS-1	BH206	0.15 - 0.75
Metals				
Antimony	4.4	BH207 SS-2	BH207	0.8 - 1.5
Arsenic	9.3	BH207 SS-2	BH207	0.8 - 1.5
Barium	340	BH207 SS-2	BH207	0.8 - 1.5
Beryllium	0.41	MW208 SS-1	MW208	0.15 - 0.75
Boron (Total)	10	MW208 SS-1	MW208	0.15 - 0.75
Boron (Hot Water Soluble)	0.87	BH207 SS-2	BH207	0.8 - 1.5
Cadmium	15	BH207 SS-2	BH207	0.8 - 1.5
Chromium (Total)	62	BH207 SS-2	BH207	0.8 - 1.5
Chromium (Hexavalent)	<0.18	All Submitted Samples		
Cobalt	8.3	BH207 SS-2	BH207	0.8 - 1.5
Copper	400	BH207 SS-2	BH207	0.8 - 1.5
Lead	340	BH207 SS-2	BH207	0.8 - 1.5
Mercury	0.15	BH206 SS-1	BH206	0.15 - 0.75
Molybdenum	3.5	BH207 SS-2	BH207	0.8 - 1.5
Nickel	39	BH207 SS-2	BH207	0.8 - 1.5
Selenium	<0.50	All Submitted Samples		
Silver	1.3	BH207 SS-2	BH207	0.8 - 1.5
Thallium	0.19	BH202 SS-1	BH202	0.15 - 0.75
Uranium	1	BH203 SS-1	BH203	0.15 - 0.75
Vanadium	38	BH207 SS-2	BH207	0.8 - 1.5
Zinc	500	BH206 SS-1	BH206	0.15 - 0.75
Inorganics				
Cyanide (Free)	NA	-	-	-
Electrical Conductivity (mS/cm)	2	BH207 SS-2	BH207	0.8 - 1.5
Sodium Adsorption Ratio (No Units)	18	BH201 SS-1	BH201	0.15 - 0.75
Acid/Base/Neutral Compounds				
1,1'-Biphenyl	<0.2	All Submitted Samples Below RDLs		
Bis(2-chloroethyl)ether	-	All Submitted Samples Below RDLs		
Bis(2-chloroisopropyl)ether	<0.4	All Submitted Samples Below RDLs		
Bis(2-ethylhexyl)phthalate	<4	All Submitted Samples Below RDLs		
p-Chloroaniline	<0.8	All Submitted Samples Below RDLs		
3,3'-Dichlorobenzidine	<2	All Submitted Samples Below RDLs		
Diethyl Phthalate	<0.8	All Submitted Samples Below RDLs		
Dimethylphthalate	<0.8	All Submitted Samples Below RDLs		
2,4-Dimethylphenol	<0.8	All Submitted Samples Below RDLs		
2,4-Dinitrophenol	<2	All Submitted Samples Below RDLs		
2,4- & 2,6-Dinitrotoluene	<0.57	All Submitted Samples Below RDLs		
Phenol	<0.4	All Submitted Samples Below RDLs		
1,2,4-Trichlorobenzene	<0.2	All Submitted Samples Below RDLs		
Chlorophenols				
2-Chlorophenol	<0.3	All Submitted Samples Below RDLs		
2,4-Dichlorophenol	<0.4	All Submitted Samples Below RDLs		
Pentachlorophenol	<0.4	All Submitted Samples Below RDLs		
2,4,5-Trichlorophenol	<0.3	All Submitted Samples Below RDLs		
2,4,6-Trichlorophenol	<0.4	All Submitted Samples Below RDLs		
Polychlorinated Biphenyls (PCBs)				
Total PCB	<0.010	All Submitted Samples		

Notes:

Units	All Units In Micrograms Per Gram, Unless Otherwise Noted
mbgs	Metres Below Ground Surface
mS/cm	MilliSiemens Per Centimetre

TABLE 9

MAXIMUM CONCENTRATIONS IN GROUNDWATER

Colonnade BridgePort

25 Picking Place, Ottawa, Ontario

Parameter	*Maximum Concentration*	*Sample Designation*	*Sample Location*	*Sample Depth (mbgs)*
Volatile Organic Compounds				
Acetone	13	MW210	MW210	1
Benzene	<0.2	All Submitted Samples		
Bromodichloromethane	<0.5	All Submitted Samples		
Bromoform	<1	All Submitted Samples		
Bromomethane	<0.5	All Submitted Samples		
Carbon Tetrachloride	<0.2	All Submitted Samples		
Chlorobenzene	<0.2	All Submitted Samples		
Chloroform	<0.2	All Submitted Samples		
Dibromochloromethane	<0.5	All Submitted Samples		
1,2-Dichlorobenzene	<0.5	All Submitted Samples		
1,3-Dichlorobenzene	<0.5	All Submitted Samples		
1,4-Dichlorobenzene	<0.5	All Submitted Samples		
Dichlorodifluoromethane	<1	All Submitted Samples		
1,1-Dichloroethane	<0.2	All Submitted Samples		
1,2-Dichloroethane	<0.5	All Submitted Samples		
1,1-Dichloroethylene	<0.2	All Submitted Samples		
cis-1,2-Dichloroethylene	<0.5	All Submitted Samples		
trans-1,2-Dichloroethylene	<0.5	All Submitted Samples		
1,2-Dichloropropane	<0.2	All Submitted Samples		
1,3-Dichloropropene (Total)	<0.5	All Submitted Samples		
Ethylbenzene	<0.2	All Submitted Samples		
Ethylene Dibromide	<0.2	All Submitted Samples		
Hexane	<1	All Submitted Samples		
Methyl Ethyl Ketone	<10	All Submitted Samples		
Methyl Isobutyl Ketone	<5	All Submitted Samples		
Methyl t-Butyl Ether (MTBE)	<0.5	All Submitted Samples		
Methylene Chloride	<2	All Submitted Samples		
Styrene	<0.5	All Submitted Samples		
1,1,1,2-Tetrachloroethane	<0.5	All Submitted Samples		
1,1,2,2-Tetrachloroethane	<0.5	All Submitted Samples		
Tetrachloroethylene	<0.2	All Submitted Samples		
Toluene	0.32	MW210	MW210	1
1,1,1-Trichloroethane	<0.2	All Submitted Samples		
1,1,2-Trichloroethane	<0.5	All Submitted Samples		
Trichloroethylene	<0.2	All Submitted Samples		
Trichlorofluoromethane	<0.2	All Submitted Samples		
Vinyl Chloride	<0.2	All Submitted Samples		
Xylenes (Total)	0.3	MW208	MW208	2.5
Petroleum Hydrocarbons (PHCs)				
PHCs F1 (C_6 - C_{10})	<25	All Submitted Samples		
PHCs F2 (>C_{10} - C_{16})	<100	All Submitted Samples		
PHCs F3 (>C_{16} - C_{34})	420	MW212	MW212	2.5
PHCs F4 (>C_{34} - C_{50})	490	MW212	MW212	2.5
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	<0.050	All Submitted Samples		
Acenaphthylene	<0.050	All Submitted Samples		
Anthracene	<0.050	All Submitted Samples		
Benzo(a)anthracene	<0.050	All Submitted Samples		
Benzo(a)pyrene	<0.0090	All Submitted Samples		
Benzo(b)fluoranthene	<0.050	All Submitted Samples		
Benzo(ghi)perylene	<0.050	All Submitted Samples		
Benzo(k)fluoranthene	<0.050	All Submitted Samples		
Chrysene	<0.050	All Submitted Samples		
Dibenzo(a,h)anthracene	<0.050	All Submitted Samples		
Fluoranthene	<0.050	All Submitted Samples		
Fluorene	<0.050	All Submitted Samples		
Indeno(1,2,3-cd)pyrene	<0.050	All Submitted Samples		
Methylnaphthalene 2-(1-)	<0.071	All Submitted Samples		
Naphthalene	<0.050	All Submitted Samples		
Phenanthrene	<0.030	All Submitted Samples		
Pyrene	<0.050	All Submitted Samples		
Metals				
Antimony	<0.50	All Submitted Samples		
Arsenic	<1.0	All Submitted Samples		
Barium	160	MW14-A	MW14-A	2.3
Beryllium	<0.40	All Submitted Samples		
Boron	47	MW14-A	MW14-A	2.3
Cadmium	<0.090	All Submitted Samples		
Chromium (Total)	<5.0	All Submitted Samples		
Cobalt	2.8	MW14-A	MW14-A	2.3
Copper	<0.90	All Submitted Samples		
Lead	<0.50	All Submitted Samples		
Molybdenum	<0.50	All Submitted Samples		
Nickel	6.7	MW14-A	MW14-A	2.3
Selenium	<2.0	All Submitted Samples		
Silver	<0.090	All Submitted Samples		
Sodium	160000	MW14-A	MW14-A	2.3
Thallium	<0.050	All Submitted Samples		
Uranium	8.5	MW14-A	MW14-A	2.3
Vanadium	<0.50	All Submitted Samples		
Zinc	<5.0	All Submitted Samples		
Acid/Base/Neutral Compounds				
1,1'-Biphenyl	<0.1	All Submitted Samples		
Bis(2-chloroethyl)ether	<0.5	All Submitted Samples		
Bis(2-chloroisopropyl)ether	<0.5	All Submitted Samples		
Bis(2-ethylhexyl)phthalate	<1	All Submitted Samples		
p-Chloroaniline	<1	All Submitted Samples		
3,3'-Dichlorobenzidine	<0.5	All Submitted Samples		
Diethyl Phthalate	0.1	All Submitted Samples		
Dimethylphthalate	<0.1	All Submitted Samples		
2,4-Dimethylphenol	<0.5	All Submitted Samples		
2,4-Dinitrophenol	<2	All Submitted Samples		
2,4- & 2,6-Dinitrotoluene	<0.35	All Submitted Samples		
Phenol	<0.5	All Submitted Samples		
1,2,4-Trichlorobenzene	<0.1	All Submitted Samples		
Chlorophenols				
2-Chlorophenol	<0.1	All Submitted Samples		
2,4-Dichlorophenol	<0.1	All Submitted Samples		
Pentachlorophenol	<0.1	All Submitted Samples		
2,4,5-Trichlorophenol	<0.2	All Submitted Samples		
2,4,6-Trichlorophenol	<0.2	All Submitted Samples		

Notes:

Units	All Units In Micrograms Per Litre
mbgs	Metres Below Ground Surface

10.0 APPENDICES

APPENDIX A

Plan of Survey

PHASE ONE PROPERTY
PHASE TWO PROPERTY
RSC PROPERTY

Notes & Legend

Denotes

⊙	"	Survey Monument Planted
■	"	Survey Monument Found
SIB	"	Standard Iron Bar
SSIR	"	Short Standard Iron Bar
IB	"	Iron Bar
CC	"	Cut Cross
CP	"	Concrete Pin
(WIT)	"	Witness
Meas.	"	Measured
(AOG)	"	Annis, O'Sullivan, Vollebekk Ltd.
(P1)	"	Plan 4R-35290
● B	"	Bollard
○ LS	"	Light Standard
OHW	"	Overhead Wires
CLF	"	Chain Link Fence
PB/W	"	Post and Wire
C/L	"	Centreline
RW	"	Retaining Wall

APPROVED UNDER SECTION 51 OF THE PLANNING ACT
BY THE CITY OF OTTAWA.

THIS _____ DAY OF _____, 2024

VIVI CHI, INTERIM GENERAL MANAGER
PLANNING, REAL ESTATE AND ECONOMIC
DEVELOPMENT DEPARTMENT
CITY OF OTTAWA

PLAN 4M-

I CERTIFY THAT THIS PLAN
IS REGISTERED IN THE LAND REGISTRY OFFICE
FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON NO. 4
AT _____ O'CLOCK ON THE _____ DAY OF _____, 2024
AND ENTERED IN THE PARCEL REGISTER FOR
PROPERTY IDENTIFIERS _____
_____
AND THE REQUIRED CONSENTS ARE REGISTERED AS
PLAN DOCUMENT NO. _____

_____
REPRESENTATIVE FOR LAND REGISTRAR

This plan comprises all of PIN 04256-0766.

PART OF BLOCKS 5 AND 7 ARE SUBJECT TO EASEMENT INST. CT112205.
PART OF BLOCKS 5, 7 AND 8 ARE SUBJECT TO EASEMENT INST. CT143598.

PLAN OF SUBDIVISION OF

LOTS 457, 458, 459, 460, 466, 467 AND
LOTS 470 TO 482 (BOTH INCLUSIVE)
LOTS 487 TO 503 (BOTH INCLUSIVE)
LOTS 506 TO 522 (BOTH INCLUSIVE)
LOTS 529 TO 552 (BOTH INCLUSIVE)
PART OF LOTS 461, 462, 463, 464, 465
PART OF AVENUE J CLOSED BY
BY-LAW 193-50 (INST. OT3267) AND
BY-LAW 6-67 (INST. OT74046)
PART OF AVENUE K CLOSED BY
BY-LAW 127-50 (INST. OT2235)
REGISTERED PLAN 320
CITY OF OTTAWA

Surveyed by Annis , O'Sullivan , Vollebekk Ltd.

Scale 1 : 300

Metric
DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

Surveyor's Certificate

I CERTIFY THAT :

1. This survey and plan are correct and in accordance with the Surveys Act, the Surveyors Act and the Land Titles Act and the regulations made under them.
2. The survey was completed on the 19th day of May, 2023.

April 11, 2024 — Date
E. H. Hennewyer
Ontario Land Surveyor

This plan of survey relates to AOLS Plan Submission Form Number V-75369

OWNER'S CERTIFICATE

THIS IS TO CERTIFY THAT :

1. Blocks 1 to 10, both inclusive, and the Streets namely avenue Bannermount Avenue and avenue K Avenue, the Street Widenings namely Blocks 8, 9 and 10 have been laid out in accordance with our instructions.
2. The Streets and Street Widenings are dedicated to City of Ottawa as public highways.

Dated the _____ day of _____, 2024

_____
Hugh Gorman (Authorized Signing Officer)
25 Pickering Holding Inc.
I have authority to bind the corporation.

All set bearings and distances are per Plan 4R-35290.

All bearings and distances between found survey monuments are measured per Plan 4R-35290.

Distances shown on this plan are ground distances and can be converted to grid distances by multiplying by the combined scale factor of 0.999945.

Bearings are grid, derived from Can-Net 2016 Real Time Network GPS observations on reference points A and B, shown hereon, having a bearing of N04°47'37"W and are referenced to Specified Control Points 01919680105 and 01918434761, MTM Zone 9 (76°30' West Longitude) NAD-83 (original).

Coordinates are derived from Can-Net 2016 Real Time Network GPS observations referenced to Specified Control Points 01919680105 and 01918434761, MTM Zone 9 (76°30' West Longitude) NAD-83 (original).

Coordinate values are to urban accuracy in accordance with O. Reg. 216/10.

. 01919680105	Northing	5024915.16	Easting	373971.65
. 01918434761	Northing	5036178.12	Easting	372436.11
. Point A	Northing	5031210.42	Easting	371305.22
. Point B	Northing	5031140.57	Easting	371509.29

Caution: Coordinates cannot, in themselves, be used to re-establish corners or boundaries shown on this plan.

ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
14 Concourse Gate, Suite 500
Nepean, Ont. K2E 7S6
Phone: (613) 727-0850 / Fax: (613) 727-1079
Email: mail@ravenlaw.com
Ontario Land Surveyors
Job No. 20079-9 Colonnade Lts 470 – 552 RP 320 SUB 03

APPENDIX B-1

Previous Analytical Data

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Well Number	*Surveyed TOC Elevation (mREL)*	*Surveyed Ground Elevation (mREL)*	*Calculated Difference Between Ground and TOC (m)*	*Length of Screen (m)*
MW-1	NM	NM	NM	3.52
MW-2	NM	NM	NM	3.52
MW-4	NM	NM	NM	3.52
MW-5	NM	NM	NM	3.52
MW-7	NM	NM	NM	3.52
MW-8	NM	NM	NM	3.52
MW-9	NM	NM	NM	3.52
MW-10	NM	NM	NM	1.50
MW-11	NM	NM	NM	3.52

Notes:

mREL	Indicates Groundwater Elevation (metres) Relative to Site Benchmark with Assumed Elevation of 100.00 Metres
TOC	Indicates Top of Casing
NM	Not Measured
m	Metres

TABLE 2
SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Samples		Parameters															
		SOIL SAMPLES									GROUNDWATER SAMPLES						
Borehole / Monitoring Well ID	Sample ID		PHCs (F1-F4) & BTEX	VOCs	PAHs	Metals	pH	Grain Size Analysis	TCLP		PHCs (F1-F4)	PHCs (F1-F4) & BTEX	VOCs	PAHs	Metals	Rationale/Notes
MW-1	SS-3			●												Assess soil and groundwater quality at former on-Site chemical storage area within the Site Building.
	MW-1												●			
MW-2	SS-4		●	●												Assess soil and groundwater quality in relation to former on-Site varsol storage tank.
	MW-2										●	●	●			
BH-3	SS-4		●	●												Assess soil quality in relation to former on-Site diesel and gasoline storage tanks.
MW-4	SS-1		●	●			●									Assess soil and groundwater quality in relation to former on-Site diesel and gasoline storage tanks. In addition, assess shallow pH in soil to confirm applicable MOECP Standards.
	MW-4										●	●	●			
MW-5	SS-4		●	●	●											Assess soil and groundwater quality in relation to former on-Site varsol and naptha storage tanks.
	MW-5										●	●	●	●		
BH-6	SS-4		●	●	●			●								Assess soil quality in relation to former on-Site varsol and naptha storage tanks. In addition, assess soil grain size to confirm applicable MOECP Standards.
MW-7	SS-4		●	●			●									Assess soil and groundwater quality in relation to former on-Site subsurface impacts on the south portion of the Site. In addition, assess subsurface pH in soil to confirm applicable MOECP Standards.
	MW-7										●	●	●			
MW-8	SS-1		●	●			●									Assess soil quality in relation to former on-Site lube oil storage tank. In addition, assess shallow pH in soil to confirm applicable MOECPStandards.
	MW-8										●	●	●	●		
MW-9	SS-4		●	●	●											Assess soil and groundwater quality in relation to former on-Site heating oil tank.
	MW-9										●	●	●	●		
MW-10	SS-3			●												Assess soil and groundwater quality in relation to on-Site checmical storage tanks.
	MW-10												●			
MW-11	SS-5		●	●			●									Assess soil and groundwater quality in relation to former on-Site diesel storage tank. In addition, assess subsurface pH in soil to confirm applicable MOECP Standards.
	MW-4										●	●	●			

Notes:

PHCs (F1-F4)	Petroleum Hydrocarbons (Fraction 1 to Fraction 4)
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
PCBs	Polychlorinated Biphenyls
VOCs	Volatile Organic Compounds
FOC	Fraction of Organic Carbon
PAHs	Polycyclic Aromatic Hydrocarbons
TCLP	Toxicity Characteristic Leaching Procedure
mbgs	Metres Below Ground Surface
MOECP	Ontario Ministry of the Environment, Conservation and Parks

Pinchin File: 224895.001

TABLE 3
pH AND GRAIN SIZE ANALYSIS FOR SOIL
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Parameter	*Units*	*MOECC Site Condition Standard Selection Criteria*	*Sample Designation*				
			Sample Collection Date (dd/mm/yyyy)				
			Sample Depth (mbgs)				
			MW-4 SS-1	*MW-8 SS-1*	*MW-7 SS-4*	*MW-11 SS-5*	*Grain Size*
			21/06/2018	*20/06/2018*	*22/06/2018*	*20/06/2018*	21/06/2018
			0.1 - 0.8	*0.1 - 0.5*	*2.3 - 3.0*	*2.5 - 3.0*	*2.3 - 3.0*
			Surface	*Surface*	*Subsurface*	*Subsurface*	
pH		Surface: 5 < pH < 9 Subsurface: 5 < pH < 11	7.2	7.8	7.7	7.0	5.0
Sieve #200 <0.075 mm	%	50%	NA	NA	NA	NA	75
Sieve #200 >0.075 mm	%	50%	NA	NA	NA	NA	25
		Grain Size Classification	NA	NA	NA	NA	MEDIUM/FINE

Notes:

BOLD	Environmentally Sensitive Area (Based Upon pH of Surface Soil)
BOLD	Environmentally Sensitive Area (Based Upon pH of Sub-Surface Soil)
NA	Not Analysed
mbgs	Metres Below Ground Surface

TABLE 4
GROUNDWATER ELEVATION DATA
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Well Number	*Date (dd/mm/yyyy)*	*NAPL Level Measurement from TOC (m)*	*Water Level Measurement from TOC (m)*	*Water Level Measurement from Ground (mbgs)*	*Product Thickness (m)*	*Calculated Water Level Elevation (mREL)*
MW-1	24/06/2018	ND	0.94	1.10	ND	NM
MW-2	22/06/2018	ND	1.37	1.51	ND	NM
MW-4	22/06/2018	ND	1.50	1.68	ND	NM
MW-5	22/06/2018	ND	1.46	1.54	ND	NM
MW-7	24/06/2018	ND	1.56	1.68	ND	NM
MW-8	22/06/2018	ND	0.22	0.27	ND	NM
MW-9	24/06/2018	ND	0.76	0.83	ND	NM
MW-10	22/06/2018	ND	0.74	0.84	ND	NM
MW-11	22/06/2018	ND	1.44	1.56	ND	NM

Notes:

mREL	Indicates Groundwater Elevation (metres) Relative To Site Benchmark with Assumed Elevation of 100.00 Metres
NAPL	Non-Aqueous Phase Liquid
ND	Not Detected
TOC	Indicates Top of Casing
m	Metres
mbgs	Metres Below Ground Surface

TABLE 5
PETROLEUM HYDROCARBON ANALYSIS FOR SOIL
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Parameter	*MOECP Table 3 Standards**	*Sample Designation*									
		Sample Collection Date (dd/mm/yyyy)									
		Sample Depth (mbgs)									
		MW-2 SS-4	*BH-3 SS-4*	*MW-4 SS-1*	*MW-5 SS-4*	*Dup-1*	*BH-6 SS-4*	*MW-7 SS-4*	*MW-8 SS-1*	*MW-9 SS-4*	*MW-11 SS-5*
		21/06/2018	*21/06/2018*	*21/06/2018*	*21/06/2018*	*21/06/2018*	*21/06/2018*	*22/06/2018*	*20/06/2018*	*22/06/2018*	*20/06/2018*
		2.3 - 3.0	*2.3 - 3.0*	*0.1 - 0.8*	*2.3 - 3.0*	*2.3 - 3.0*	*2.3 - 3.0*	*2.3 - 3.0*	*0.1 - 0.5*	*2.3 - 3.0*	*2.5 - 3.0*
Benzene	0.4	-	-	-	-	-		-	-	-	-
Toluene	78	-	-	-	-	-		-	-	-	-
Ethylbenzene	19	-	-	-	-	-		-	-	-	-
Xylenes (Total)	30	-	-	-	-	-		-	-	-	-
Petroleum Hydrocarbons F1 (C_6 - C_{10})	65	<10	**2800**	**12000**	29	45	14	<10	<10	<10	<10
Petroleum Hydrocarbons F2 (>C_{10} - C_{16})	250	<10	**370**	**2300**	48	81	<10	<10	14	<10	<10
Petroleum Hydrocarbons F3 (>C_{16} - C_{34})	2500	<50	63	56	<50	<50	<50	<50	790	<50	<50
Petroleum Hydrocarbons F4 (>C_{34} - C_{50})	6600	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

Notes:

MOECP Table 3 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Medium/Fine-Textured Soils, Non-Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD	Exceeds Site Condition Standard
BOLD	Reportable Detection Limit Exceeds Site Condition Standard
Units	All Units in µg/g
mbgs	Metres Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes

TABLE 6
VOLATILE ORGANIC COMPOUND ANALYSIS FOR SOIL
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Parameter	*MOECP Table 3 Standards**	*Sample Designation*											
		Sample Collection Date (dd/mm/yyyy)											
		Sample Depth (mbgs)											
		MW-1 SS-3	*MW-2 SS-4*	*BH-3 SS-4*	*MW-4 SS-1*	*MW-5 SS-4*	*Dup-1*	*BH-6 SS-4*	*MW-7 SS-4*	*MW-8 SS-1*	*MW-9 SS-4*	*MW-10 SS-3*	*MW-11 SS-5*
		22/06/2018	*21/06/2018*	*21/06/2018*	*21/06/2018*	*21/06/2018*	*21/06/2018*	*21/06/2018*	*22/06/2018*	*20/06/2018*	*22/06/2018*	*20/06/2018*	*20/06/2018*
		1.5 - 2.3	*2.3 - 3.0*	*2.3 - 3.0*	*0.1 - 0.8*	*2.3 - 3.0*	*2.3 - 3.0*	*2.3 - 3.0*	*2.3 - 3.0*	*0.1 - 0.5*	*2.3 - 3.0*	*1.2 - 1.8*	*2.5 - 3.0*
Acetone	28	<0.50	<0.50	<10	**<50**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	0.4	0.085	<0.020	<0.40	**88**	<0.020	<0.020	<0.020	0.082	<0.020	0.025	<0.020	<0.020
Bromodichloromethane	18	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	1.7	<0.050	<0.050	<1.0	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	0.05	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	1.5	<0.050	<0.050	<1.0	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	2.7	0.1	<0.050	<1.0	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	0.18	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	13	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	8.5	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	12	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	0.84	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	21	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	0.05	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	0.48	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	37	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trans-1,2-Dichloroethylene	9.3	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	0.68	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropylene	NV	<0.030	<0.030	<0.60	<3.0	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Trans-1,3-Dichloropropylene	NV	<0.040	<0.040	<0.80	<4.0	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Ethylbenzene	19	0.082	<0.020	**120**	**440**	<0.020	<0.020	<0.020	0.038	<0.020	<0.020	<0.020	<0.020
Ethylene Dibromide	0.05	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	88	<0.50	<0.50	<10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	2	<0.050	<0.050	<1.0	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Isobutyl Ketone	210	<0.50	<0.50	<10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl-t-Butyl Ether	3.2	<0.050	<0.050	<1.0	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	43	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	0.11	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	0.094	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	78	0.58	<0.020	0.87	**960**	<0.020	<0.020	<0.020	0.34	<0.020	0.073	<0.020	<0.020
Tetrachloroethylene	21	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	12	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.11	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.61	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	0.25	<0.020	<0.020	**<0.40**	**<2.0**	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m-Xylene & p-Xylene	NV	0.3	<0.020	480	1800	0.021	<0.020	<0.020	0.13	<0.020	0.023	<0.020	<0.020
o-Xylene	NV	0.11	<0.020	190	770	<0.020	<0.020	<0.020	0.049	<0.020	<0.020	<0.020	<0.020
Total Xylenes	30	0.41	<0.020	**660**	**2600**	0.021	<0.020	<0.020	0.18	<0.020	0.023	<0.020	<0.020
Dichlorodifluoromethane	25	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dioxane, 1,4-	1.8	-	-	-	-	-	-	-	-	-	-	-	-
Hexane(n)	88	<0.050	<0.050	22	**140**	<0.050	<0.050	<0.050	0.066	<0.050	<0.050	<0.050	<0.050
Trichlorofluoromethane	5.8	<0.050	<0.050	<1.0	<5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropene (cis + trans)	0.21	<0.050	<0.050	**<1.0**	**<5.0**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:

MOECP Table 3 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Medium/Fine-Textured Soils, Non-Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD — Exceeds Site Condition Standard
BOLD — Reportable Detection Limit Exceeds Site Condition Standard
Units — All Units in µg/g
mbgs — Metres Below Ground Surface

Pinchin File: 224895.001

TABLE 7
POLYCYCLIC AROMATIC HYDROCARBON ANALYSIS FOR SOIL
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Parameter	*MOECP Table 3 Standards**	*Sample Designation*			
		Sample Collection Date (dd/mm/yyyy)			
		Sample Depth (mbgs)			
		MW-5 SS-4	*Dup-1*	*BH-6 SS-4*	*MW-9 SS-4*
		21/06/2018	*21/06/2018*	*21/06/2018*	*22/06/2018*
		2.3 - 3.0	*2.3 - 3.0*	*2.3 - 3.0*	*2.3 - 3.0*
Acenaphthene	96	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthylene	0.17	<0.0050	<0.0050	<0.0050	<0.0050
Anthracene	0.74	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(a)anthracene	0.96	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(a)pyrene	0.3	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b)fluoranthene	0.96	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(ghi)perylene	9.6	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(k)fluoranthene	0.96	<0.0050	<0.0050	<0.0050	<0.0050
Chrysene	9.6	<0.0050	<0.0050	<0.0050	<0.0050
Dibenzo(a,h)anthracene	0.1	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	9.6	<0.0050	<0.0050	<0.0050	<0.0050
Fluorene	69	<0.0050	<0.0050	<0.0050	<0.0050
Indeno(1,2,3-cd)pyrene	0.95	<0.0050	<0.0050	<0.0050	<0.0050
Methylnaphthalene 2-(1-)	85	<0.0050	<0.0050	<0.0050	<0.0050
Naphthalene	28	<0.0050	<0.0050	<0.0050	<0.0050
Phenanthrene	16	<0.0050	<0.0050	<0.0050	<0.0050
Pyrene	96	<0.0050	<0.0050	<0.0050	<0.0050

Notes:

MOECP Table 3 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Medium/Fine-Textured Soils, Non-Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD — Exceeds Site Condition Standard

BOLD — Reportable Detection Limit Exceeds Site Condition Standard

Units — All Units in µg/g

mbgs — Metres Below Ground Surface

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TABLE 8
PETROLEUM HYDROCARBON ANALYSIS FOR GROUNDWATER
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Parameter	*MOECP Table 3 Standards**							
		MW-2	*MW-4*	*MW-5*	*MW-7*	*MW-8*	*MW-9*	*MW-11*
		25/10/2017	*25/10/2017*	*25/10/2017*	*25/10/2017*	*25/10/2017*	*25/10/2017*	*25/10/2017*
Benzene	430	-	-	-	-	-	-	-
Toluene	18000	-	-	-	-	-	-	-
Ethylbenzene	2300	-	-	-	-	-	-	-
Xylenes (Total)	4200	-	-	-	-	-	-	-
Petroleum Hydrocarbons F1 (C_6 - C_{10})	750	<25	**18000**	<25	<25	<25	42	<25
Petroleum Hydrocarbons F2 (>C_{10} - C_{16})	150	<100	**1800**	<100	<100	150	<100	<100
Petroleum Hydrocarbons F3 (>C_{16} - C_{34})	500	<200	<200	<200	<200	270	<200	<200
Petroleum Hydrocarbons F4 (>C_{34} - C_{50})	500	<200	<200	<200	<200	<200	<200	<200

Notes:

MOECP Table 3 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Medium/Fine-Textured Soils, Non-Potable Groundwater Condition, for All Types of Property Use.

BOLD — Exceeds Site Condition Standard

BOLD — Reportable Detection Limit Exceeds Site Condition Standard

Units — All Units in µg/L

BTEX — Benzene, Toluene, Ethylbenzene and Xylenes

TABLE 9

VOLATILE ORGANIC COMPOUND ANALYSIS FOR GROUNDWATER

Dustbane Enterprises Ltd.

25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Parameter	*MOECP Table 3 Standards**	*Sample Designation*								
		Sample Collection Date (dd/mm/yyyy)								
		MW-1	*MW-2*	*MW-4*	*MW-5*	*MW-7*	*MW-8*	*MW-9*	*MW-10*	*MW-11*
		25/10/2017	*25/10/2017*	*25/10/2017*	*25/10/2017*	*25/10/2017*	*25/10/2017*	*25/10/2017*	*25/10/2017*	*25/10/2017*
Acetone	130000	<10	<10	94	12	23	<10	<10	27	<10
Benzene	430	<0.20	0.47	**2000**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	85000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	770	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	8.4	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	630	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	82000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	9600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	9600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	3100	0.57	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cis-1,2-Dichloroethylene	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trans-1,2-Dichloroethylene	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	140	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cis-1,3-Dichloropropylene	NV	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Trans-1,3-Dichloropropylene	NV	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylbenzene	2300	<0.20	0.69	1400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide	1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Ethyl Ketone	1500000	<10	<10	110	<10	<10	<10	<10	<10	<10
Methylene Chloride	5500	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl Isobutyl Ketone	580000	<5.0	<5.0	31	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-t-Butyl Ether	1400	<0.50	<0.50	0.92	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	9100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	18000	<0.20	<0.20	5800	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethylene	17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	6700	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	17.00	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Chloride	1.7	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m-Xylene & p-Xylene	NV	<0.20	1.2	4600	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
o-Xylene	NV	<0.20	0.33	2100	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Total Xylenes	4200	<0.20	1.5	**6700**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorodifluoromethane	4400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dioxane, 1,4-	7300000	-	-	-	-	-	-	-	-	-
Hexane(n)	520	<1.0	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	2500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropene (cis + trans)	45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Notes:

MOECP Table 3 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Medium/Fine-Textured Soils, Non-Potable Groundwater Condition, for All Types of Property Use.

BOLD — Exceeds Site Condition Standard

BOLD — Reportable Detection Limit Exceeds Site Condition Standard

Units — All Units in µg/L

Pinchin File: 224895.001

TABLE 10
POLYCYCLIC AROMATIC HYDROCARBON ANALYSIS FOR GROUNDWATER
Dustbane Enterprises Ltd.
25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Parameter	*MOECP Table 3 Standards**	*Sample Designation*		
		Sample Collection Date (dd/mm/yyyy)		
		MW-5	*MW-8*	*MW-9*
		25/06/2018	*25/10/2017*	*25/10/2017*
Acenaphthene	1700	<0.050	0.065	<0.050
Acenaphthylene	1.8	<0.050	<0.050	<0.050
Anthracene	2.4	<0.050	<0.050	<0.050
Benzo(a)anthracene	4.7	<0.050	<0.050	<0.050
Benzo(a)pyrene	0.81	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.75	<0.050	<0.050	<0.050
Benzo(ghi)perylene	0.2	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	0.4	<0.050	<0.050	<0.050
Chrysene	1	<0.050	<0.050	<0.050
Dibenzo(a,h)anthracene	0.52	<0.050	<0.050	<0.050
Fluoranthene	130	<0.050	<0.050	<0.050
Fluorene	400	<0.050	0.072	<0.050
Indeno(1,2,3-cd)pyrene	0.2	<0.050	<0.050	<0.050
Methylnaphthalene 2-(1-)	1800	<0.050	<0.050	<0.050
Naphthalene	6400	<0.050	0.07	<0.050
Phenanthrene	580	<0.030	0.063	<0.030
Pyrene	68	<0.050	<0.050	<0.050

Notes:

MOECP Table 3 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Medium/Fine-Textured Soils, Non-Potable Groundwater Condition, for All Types of Property Use.

BOLD — Exceeds Site Condition Standard

BOLD — Reportable Detection Limit Exceeds Site Condition Standard

Units — All Units in µg/L

Pinchin File: 224895.001

APPENDIX B-2

Sampling and Analysis Plan

Sampling and Analysis Plan for Phase Two Environmental Site Assessment

25 Pickering Place and 1330 Avenue K
Ottawa, Ontario

Prepared for:

25 Pickering Holdings Inc.
16 Concourse Gate, Suite 200
Ottawa, ON K2E 7S8

May 1, 2021

Pinchin File: 267991.007

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1.0 INTRODUCTION

Pinchin Ltd. (Pinchin) has prepared this Sampling and Analysis Plan (SAP) for the Phase Two Environmental Site Assessment (ESA) to be performed at the property located at 25 Pickering Place and 1330 Avenue K in Ottawa, Ontario (hereafter referred to as the Site or Phase Two Property). The Phase Two Property is presently developed with six industrial buildings (Site Buildings A to F), which are used for the manufacturing, production, storage, and distribution of cleaning products.

The Phase Two ESA will be conducted at the request of 25 Pickering Holdings Inc. (Client) in relation to the future redevelopment of the Phase Two Property from its current industrial land use to mixed-use residential and commercial land use. A Record of Site Condition (RSC) submittal to the Ontario Ministry of the Environment, Conservation and Parks (MECP) is a mandatory requirement when a land use changes to a more sensitive land use and as such, to support the RSC submission, the Phase Two ESA will be conducted in accordance with the Province of Ontario's *Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act*, which was last amended by Ontario Regulation 776/20 on January 1, 2021 (O. Reg. 153/04).

This SAP provides the scope of work and procedures for completing the field investigation for the Phase Two ESA. The Phase Two ESA will be performed in accordance with the scope of work, and terms and conditions described in the proposal entitled *"Proposal for Phase Two Environmental Site Assessment, 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario"*, prepared for the Client, dated April 30, 2021.

2.0 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

The objectives of the Phase Two ESA will be to assess soil and groundwater quality at the Phase Two Property in relation to 15 areas of potential environmental concern (APECs) and related potentially contaminating activities (PCAs) and contaminants of potential concern (COPCs) identified in a Phase One ESA completed by Pinchin in accordance with O. Reg. 153/04, the findings of which are provided in the draft report entitled "*Phase One Environmental Site Assessment Report, 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario",* prepared for the Client, dated April 6, 2021.

The APECs and corresponding PCAs and COPCs are summarized in Table 1 (all Tables are located in Appendix II).

3.0 SCOPE OF WORK

The information obtained from the Phase One ESA, in particular the Phase One Conceptual Site Model, was used to determine the environmental media requiring investigation during the Phase Two ESA (i.e., soil and groundwater), the locations and depths for sample collection, and the parameters to be analyzed for the samples submitted from each APEC. The Phase Two ESA scope of work will include the

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advancement of seven boreholes, two of which will be completed as groundwater monitoring wells. The proposed borehole and groundwater monitoring well locations, and existing groundwater monitoring wells, are provided on Figure 2.

Table 2 in Appendix II provides a detailed summary of the proposed Phase Two ESA scope of work, including:

- Boreholes and/or groundwater monitoring wells to be completed, or resampled, within each APEC and the COPCs to be analyzed for samples collected in each APEC;
- Media to be sampled at each sampling location, the sampling system (see Section 7.0), the soil sampling depth intervals, monitoring well screen intervals and the sampling frequency; and
- Number of samples per borehole or groundwater monitoring well to be collected and submitted for laboratory analysis.

Note that the soil sampling depth intervals (i.e., borehole depths), monitoring well screen intervals and sampling frequency are based on Pinchin's current knowledge of subsurface conditions, including the estimated depth to groundwater of approximately 3 to 4 metres below ground surface (mbgs), and may be revised based on the actual subsurface conditions encountered.

Additional scope of work items include the following:

- Submission of up to four soil samples for pH analysis;
- Submission of up to four soil samples for grain size analysis;
- Elevation surveying by an Ontario Licensed Surveyor of the ground surface elevations of all monitoring well locations, and the top of pipe elevations for all groundwater monitoring wells;
- Depth to water measurements of all newly-installed and existing monitoring wells, including assessment for non-aqueous phase liquid. Depth to water measurements will be made during well development and groundwater sampling, and one month following groundwater sampling; and
- Completion of groundwater sampling using low-flow purging and sampling methods as per SOP-EDR023 (see Section 6.0), unless well yields are too low to permit this method to be used. For well(s) where low flow sampling cannot be employed, groundwater sampling will be conducted using the well volume method described in SOP-EDR008.

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4.0 DATA QUALITY OBJECTIVES

The data quality objectives (DQOs) for the Phase Two ESA will be to obtain unbiased analytical data that are representative of actual soil and groundwater conditions at the Phase Two Property. This will be accomplished by implementing a quality assurance/quality control (QA/QC) program, as described in Section 5.0, and by completing the field work in accordance with Pinchin's standard operating procedures (SOPs), as described in Section 6.0. Pinchin's SOPs are based in part on the MECP's *"Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario"*, dated December 1996 and the Association of Professional Geoscientists of Ontario document entitled *"Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)"*, dated April 2011.

The DQOs are intended to minimize uncertainty in the analytical data set such that the data are considered reliable enough to not affect the conclusions and recommendations of the Phase Two ESA and to meet the overall objective of the Phase Two ESA, which is to assess the environmental quality of the Phase Two Property in relation to the identified APECs.

5.0 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

5.1 Non-Dedicated Sampling and Monitoring Equipment Cleaning

Based on the proposed scope of work, the following non-dedicated sampling and monitoring equipment will be used during completion of the Phase Two ESA:

- Interface probe;
- Water level tape;
- Spatula for soil sampling;
- 3.2, 3.8 or 5.2 centimetre inner diameter direct push soil samplers with dedicated single-use sample liners;
- Submersible or peristaltic pump; and
- Flow-through cell for groundwater sampling.

All of the above-listed equipment will be cleaned prior to initial use and between samples or sampling locations, as appropriate, following the equipment cleaning procedures described in SOP-EDR009. Any non-dedicated sampling or monitoring equipment not listed above that is used during the Phase Two ESA will also be cleaned in accordance with SOP-EDR009.

5.2 Trip Blanks

A trip blank is a set of VOC sample vials filled by the analytical laboratory with VOC-free distilled water and shipped with the groundwater sample containers. Trip blanks will be stored with the sample

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containers provided by the analytical laboratory during travel to the Phase Two Property, while on the Phase Two Property, and during travel from the Phase Two Property back to the analytical laboratory. The sample containers comprising a trip blank will not be opened in the field.

One trip blank will accompany each submission to the laboratory. Each trip blank will be submitted for analysis of VOCs. Based on the scope of work and anticipated field work schedule for the Phase Two ESA, it is estimated that analysis of two to three trip blanks will be required. Additional trip blanks will be submitted if there are additional laboratory submissions.

5.3 Field Duplicate Samples

Field duplicate soil and groundwater samples will be collected for laboratory analysis in accordance with SOP-EDR025 at a frequency of one sample for every ten samples submitted for laboratory analysis, with a minimum of one sample per media sampled per COPC.

5.4 Calibration Checks on Field Instruments

5.4.1 Field Screening Instruments

The photoionization detector (PID) and combustible gas indicator (CGI) used for the field screening of soil samples will be calibrated in accordance with the procedures described in SOP-EDR003. Calibration checks will also be made at the frequency specified in SOP-EDR003.

Records of the calibration and calibration checks of the PID and CGI, including any calibration sheets provided by the equipment supplier, will be retained in Pinchin's project file.

5.4.2 Water Quality Measurement Instruments

Water quality instruments used to measure field parameters during groundwater sampling will be calibrated in accordance with the procedures described in SOP-EDR016. Calibration checks will also be made at the frequency specified in SOP-EDR016.

Records of the calibration and calibration checks of the probes/instruments used for water quality parameter measurements, including any calibration sheets provided by the equipment supplier, will be retained in Pinchin's project file.

6.0 STANDARD OPERATING PROCEDURES

The proposed field investigation for the Phase Two ESA will require the following SOPs to be followed:

- Borehole drilling (SOP-EDR006);
- Soil sampling (SOP-EDR013 and SOP-EDR019);

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- Field screening (SOP-EDR003);
- Monitoring well installation (SOP-EDR007);
- Monitoring well development (SOP-EDR017);
- Field measurement of water quality indicators (SOP-EDR016);
- Groundwater sampling (SOP-EDR008 and/or SOP-EDR023);
- QA/QC sampling (SOP-EDR025); and
- Non-dedicated field equipment decontamination (SOP-EDR009).

The above-referenced SOPs are provided in Appendix III. Each SOP includes a section describing the specific requirements for Phase Two ESAs completed to support the filing of an RSC in accordance with O. Reg. 153/04.

Any deviations from the SOPs will be summarized in the Phase Two ESA report.

7.0 SAMPLING SYSTEM

The borehole and monitoring well locations in all APECs will be selected following a judgemental sampling system. Boreholes and monitoring wells will be placed at locations where the potential for COPCs to be present is considered the highest (i.e., “worst case”), as per the Table 2 and outlined in Figure 2.

In addition, the field screening results for soil samples collected from each borehole will be used to select “worst case” samples for laboratory analysis.

The sampling system that will be used for each APEC is summarized in Table 2.

8.0 PHYSICAL IMPEDIMENTS

Pinchin anticipates that there will be no physical impediments limiting access to the Phase Two Property during completion of the Phase Two ESA, with the following exceptions:

- Vehicle parking throughout the Phase Two Property;
- Underground and overhead utilities; and
- Physical distancing due to COVID-19 within the Site Building(s).

9.0 TERMS AND LIMITATIONS

This Sampling and Analysis Plan (SAP) has been prepared to summarize the general scope of work and field procedures to be followed for the Phase Two ESA that will be performed for Rahal Properties Inc. (Client) in order to investigate potential environmental impacts at 25 Pickering Place and 1330 Avenue K,

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in Ottawa, Ontario (Site). The term recognized environmental condition means the presence or likely presence of any hazardous substance on a property under conditions that indicate an existing release, past release, or a material threat of a release of a hazardous substance into structures on the property or into the ground, groundwater, or surface water of the property. The Phase Two ESA will not quantify the extent of the current and/or recognized environmental condition or the cost of any remediation.

Conclusions derived from the Phase Two ESA will be specific to the immediate area of study and cannot be extrapolated extensively away from sample locations. Samples will be analyzed for a limited number of contaminants that are expected to be present at the Site, and the absence of information relating to a specific contaminant does not indicate that it is not present.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions on a property. Performance of the Phase Two ESA to the standards established by Pinchin is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions on the Site, and recognizes reasonable limits on time and cost.

The Phase Two ESA will be performed in general compliance with currently acceptable practices for environmental site investigations, and specific Client requests, as applicable to this Site.

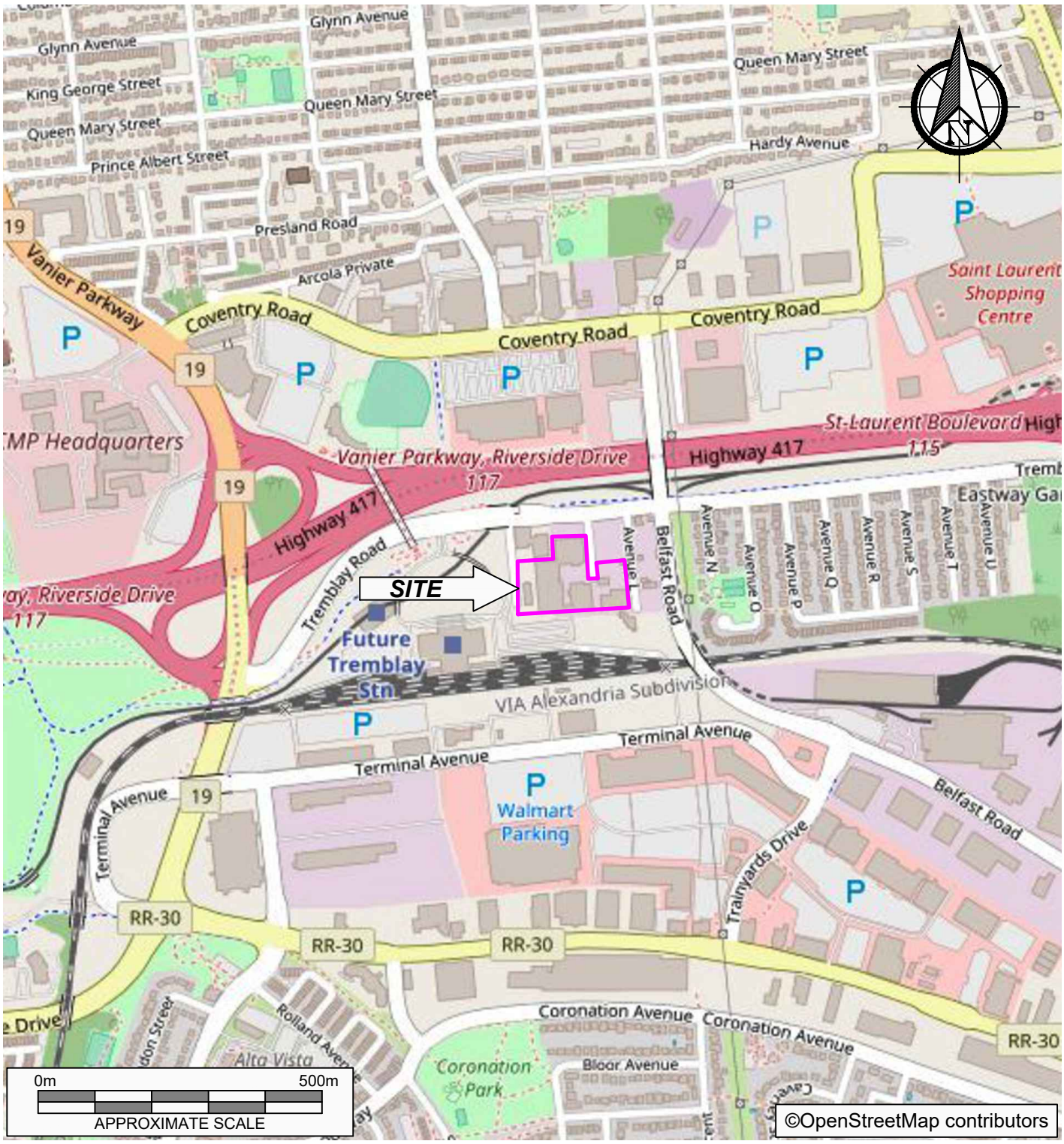
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Pinchin makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this SAP, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

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APPENDIX I
Figures



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PROJECT NAME: SAMPLING AND ANALYSIS PLAN		
CLIENT NAME: 25 PICKERING HOLDINGS INC.		
PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO		
FIGURE NAME: KEY MAP		FIGURE NO.: 1
APPROXIMATE SCALE: AS SHOWN	PROJECT NO.: 267991.007	DATE: MAY 2021



N

LEGEND

- PINCHIN ENVIRONMENTAL BOREHOLE/MONITORING WELL 2020
- PINCHIN 2018 BOREHOLE/ MONITORING WELL
- PINCHIN GEOTECHNICAL BOREHOLE
- PROPOSED BOREHOLE/ MONITORING WELL
- RAILWAY LINE
- EXISTING BUILDING
- SITE BOUNDARY
- SITE BUILDING

NOTES:
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2) Do not scale drawing
3) This drawing may have been reduced. All scale notations indicated are based on a 11"x17" format drawings.
4)Legend is color dependent. Non-colour copies may alter interpretation.
5) Coordinate system:
6) Source: Pinchin Ltd., Maxar, Microsoft

PINCHIN

PROJECT NAME
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME
1. FIERA REAL ESTATE CORE FUND LP.
2. COLONNADE BRIDGEPORT

PROJECT LOCATION
25 PICKERING PLACE, OTTAWA, ONTARIO

FIGURE NAME
PROPOSED BOREHOLE AND MONITORING WELL LOCATION PLAN

PROJECT NUMBER:	SCALE
267991.007	1:1,500
DRAWN BY: PKM	REVIEWED BY: SM
DATE: MAY 2021	FIGURE NUMBER: 2

APPENDIX II

Tables

Table 1 - Table of Areas of Potential Environmental Concern

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-1 (Manufacturing of various cleaning products within Site Building A)	Throughout the Site Buildings (except Building F) and former on-Site buildings.	Item 8 - Chemical Manufacturing, Processing and Bulk Storage	On-Site	PHCs BTEX PAHs VOCs ABNs CPs	Soil and Groundwater
APEC-2 (Drainage trench and two associated pits present in Site Building A that collect wastewater)	North portion of Site Building A.	Other - Wastewater Generation	On-Site	PHCs BTEX PAHs VOCs ABNs CPs	Soil and Groundwater
APEC-3 (A pad-mounted oil-cooled transformer)	Central portion of the Phase One Property	Item 55 - Transformer Manufacturing, Processing and Use	On-Site	PHCs BTEX PCBs	Soil

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-4 (2,000-gallon fuel oil tank (associated with an 'oil house'))	South-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil and Groundwater
APEC-5 (10,000-gallon "nuso" oil tank (associated with an 'oil house'))	South-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil and Groundwater
APEC-6 (Former 3,790-L varsol underground storage tank (UST))	Adjacent to the east elevation of Site Building D	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-7 (Former varsol UST (size unknown))	Adjacent to the north elevation of Site Building D	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater
APEC-8 (Various former ASTs (contents unknown))	Adjacent to the north and west elevations of Site Building A	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater
APEC-9 (Former varsol UST (size unknown))	Near the south boundary of the Phase One Property, between Site Buildings A and E	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs	Soil and Groundwater

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-10 (Various gasoline and diesel USTs, associated with a former private fuel outlet)	East-central portion of the Phase One Property (near the boundary)	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs VOCs Metals	Soil and Groundwater
APEC-11 (Fill material identified on-Site by previous subsurface investigations)	Throughout the Phase One Property	Item 30 - Importation of Fill Material of Unknown Quality	On-Site	PAHs PHCs Metals As, Sb, Se B-HWS Cr (VI) Hg CN^- EC SAR	Soil
APEC-12 (Former diesel AST)	North-central portion of Site Building E.	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs BTEX PAHs	Soil

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-13 (Application of road salt)	Parking areas and walkways at the Phase One Property.	Other – Road Salting Activities	On-Site	EC SAR	Soil
APEC-14 (Automotive repair/servicing operation located at 1333 Avenue L)	East portion of the Phase One Property	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Off-Site	PHCs BTEX PAHs VOCs Metals	Groundwater
APEC-15 (Retail fuel outlet with associated USTs located at 1333 Avenue L)	East portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs BTEX PAHs VOCs Metals	Groundwater

Notes:

1 - Areas of potential environmental concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,

(a) identification of past or present uses on, in or under the phase one property, and

(b) identification of potentially contaminating activity.

2 - Potentially contaminating activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area

3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

List of Method Groups:

ABNs	PCBs	Metals	Electrical Conductivity
CPs	PAHs	As, Sb, Se	Cr (VI)
1,4-Dioxane	THMs	Na	Hg
Dioxins/Furans, PCDDs/PCDFs	VOCs	B-HWS	Methyl Mercury
OCs	BTEX	Cl-	Low or high pH,
PHCs	Ca, Mg	CN-	SAR

4 - When submitting a record of site condition for filing, a copy of this table must be attached

Table 2 - Phase Two Scope of Work Summary

Sampling Location	APEC	Media Sampled	COPCs																						Number of Samples Submitted for Analysis	Soil Sampling Depth Interval (mbgs)	Screen Interval (mbgs)	Sampling Frequency	Sampling System	Rationale/Notes
			PHCs	BTEX	VOCs	PAHs	PCBs	ABNs	Phenols	Chlorophenols	Metals	Hydrides (As, Sb, Se)	Boron (HWS)	Chromium VI	Mercury	Methyl Mercury	ABNs	Dioxins/Furans	OCPs	Sodium	Chloride	Cyanide	EC	SAR						
MW-9	4 / 5	Groundwater	●	●	●	●																			1	NA	1.5 - 4.6	NA	Judgemental	Former oil ASTs/resample groundwater from existing well.
MW-10	1 / 2	Groundwater	●	●	●	●		●		●															1	NA	1.5 - 4.6	NA	Judgemental	Chemical manufacutring area (pits and tanks)/resample additional COPCs.
MW-11	12	Groundwater	●	●		●																			1	NA	1.5 - 4.6	NA	Judgemental	Former AST/resample groundwater from existing well.
MW-14A	10 / 14 / 15	Groundwater									●	●													1	NA	1.5 - 4.6	NA	Judgemental	Former USTs and off-Site automotive repair and retail fuel outlet/resample for metals including lead.
BH101	11	Soil	●			●					●	●	●	●	●								●	●	1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	Fill importation.
BH102		Soil	●			●					●	●	●	●	●								●	●	1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	
BH103		Soil	●			●					●	●	●	●	●								●	●	1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	
BH104		Soil	●			●					●	●	●	●	●								●	●	1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	
BH105		Soil	●			●					●	●	●	●	●								●	●	1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	
BH106	3	Soil	●	●			●																		1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	On-Site transformer.
BH107	11	Soil	●	●	●	●					●	●	●	●	●										1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	Fill importation.
BH108	1 / 2 / 8	Soil	●	●	●	●		●		●															1	1 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	Former ASTs/chemcial manufacturing area.
BH109	1 / 2 / 8	Soil	●	●	●	●		●		●															1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	
MW110	1 / 2	Soil	●	●	●	●		●		●															1	0 - 4.6	NA	Continous/Soil cores every 1.5 m	Judgemental	Chemical manufacutring area (pits, tanks and chemical storage).
		Groundwater	●	●	●	●		●		●															1	NA	1.5 - 4.6	NA	Judgemental	
MW111	1 / 2	Soil	●	●	●	●		●		●															1	0 - 4.6	NA	Continous/Soil cores every 1.5 m	Judgemental	
		Groundwater	●	●	●	●		●		●															1	NA	1.5 - 4.6	NA	Judgemental	
MW112	1 / 2	Soil	●	●	●	●		●		●															1	0 - 4.6	NA	Continous/Soil cores every 1.5 m	Judgemental	
		Groundwater	●	●	●	●		●		●															1	NA	1.5 - 4.6	NA	Judgemental	
BH113	7	Soil	●	●	●	●																			1	0 - 4.6	NA	Continous/Soil cores every 1.5 m	Judgemental	Former varsol UST.
BH114	7 / 11	Soil	●	●	●	●					●	●	●	●	●										2	0 - 4.6	NA	Continous/Soil cores every 1.5 m	Judgemental	Former varsul UST/Fill importation.
MW115	6 / 7	Soil	●	●	●	●																			1	0 - 1.5	NA	Continous/Soil cores every 1.5 m	Judgemental	Former varsol USTs, downgradient delineation of APEC 6 and 7.
		Groundwater	●	●	●	●																			1	NA	1.5 - 4.6	NA	Judgemental	
MW116	14 / 15	Groundwater	●	●	●	●																			1	NA	1.5 - 4.6	NA	Judgemental	Off-Site automotive repair and retail fuel outlet.

PHCs Petroleum Hydrocarbons (Fraction 1 to Fraction 4)
BTEX Benzene, Toluene, Ethylbenzene and Xylenes
VOCs Volatile Organic Compounds
PAHs Polycyclic Aromatic Hydrocarbons
PCBs Polychlorinated Biphenyls
As, Sb, Se Arsenic, Antimony, Selenium
Boron (HWS) Hot Water Soluble Boron
Chromium VI Hexavalent Chromium
ABNs Acid/Base/Neutral Compounds
OCPs Organochlorine Pesticides
EC Electrical Conductivity
SAR Sodium Adsorption Ratio

APEC Area of Potential Environmental Concern
COPCs Contaminants of Potential Concern
m Metres
mbgs Metres Below Ground Surface
NA Not Applicable
PCA Potentially Contaminating Activity
SOP Standard Operating Procedure
UST Underground Storage Tank
mbfs Metres Below Floor Surface

APPENDIX III

Pinchin Standard Operating Procedures

SOP – EDR003 – REV004 – FIELD SCREENING OF SOIL SAMPLES

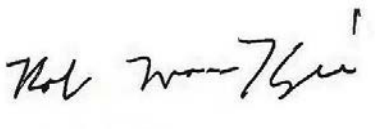
Title:	Field Screening of Soil Samples
Practice:	EDR
First Effective Date:	June 16, 2009
Version:	004
Version Date:	January 3, 2018
Author:	Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	June 16, 2009	N/A	MEM
001	November 26, 2010	Update approval signature	FG
002	September 25, 2013	Revised SOP to reflect current practices/Added section on O.Reg. 153/04 compliance	RLM
003	April 29, 2016	Updated Section 4.0/Modified time between readings to 1 hour	RLM
004	April 28, 2017	Removed reference to Pinchin West/In Section 5.2, clarified that soil vapour measurements do not need to be made within one hour of sampling during winter conditions	RLM
004	January 3, 2018	Reviewed and confirmed current	RLM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) presents the quantitative and qualitative methods to be used by Pinchin field personnel for field screening soil samples for potential impacts during field investigations.

The quantitative part of field screening consists of the measurement of vapour concentrations in soil sample headspace in order to assess the potential for volatile constituents to be present in the soil. The soil vapour readings obtained from these measurements are then used to assist in selecting potential "worst case" soil samples for submission to the laboratory for analysis. There are no regulatory standards for comparison with soil headspace vapour readings and we are using the general principle that the sample with the highest soil headspace vapour concentration from a group of samples is often the most likely to be impacted by volatile constituents.

The qualitative part of field screening includes assessing the soil for visual or olfactory indicators of potential contamination and is used in conjunction with the soil headspace vapour readings to select "worst case" soil samples to be submitted for laboratory analysis.

Note that soil vapour measurements have limited value when selecting "worst case" soil samples for laboratory analysis of non-volatile parameters such as metals. Visual observations of the presence of staining and debris (e.g., brick fragments and other building materials, coal ash, etc.), along with sample depth and likely migration pathways are to be factored into selecting the samples. The sample with the highest soil headspace vapour reading is not automatically selected under these circumstances.

Soil samples collected for soil vapour measurement must not be submitted for laboratory analysis except for analysis of non-volatile parameters (i.e., metals and inorganics) or grain size analysis.

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This SOP also applies to the field screening of sediment samples but for simplicity, only soil samples are referred to below.

3.0 OVERVIEW

Not applicable.

4.0 DISTRIBUTION

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- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

5.0 PROCEDURE

5.1 Equipment and Supplies

- Resealable plastic bags (e.g., Ziploc®);

  (Note that small capacity bags (e.g., 500 millilitre capacity) are preferred over larger sized bags. When conducting headspace screening of a set of soil samples, the size of bag used should be consistent throughout in order to maintain the same approximate headspace volume in each bag);
- Combustible gas indicator (CGI) capable of operating in methane-elimination and/or photo-ionization detector (PID);

  (The Project Manager will be responsible for selecting the appropriate instrument(s) for each project. CGIs (e.g., RKI Eagle or Gastechtor) are acceptable for screening of petroleum hydrocarbons (PHCs) and related compounds, whereas PIDs (e.g., MiniRAE) are acceptable for screening for volatile organic compounds (VOCs), including chlorinated solvents, but can also be used when screening for PHCs. For many projects, it will be appropriate to employ both a CGI and a PID); and
- Calibration equipment (e.g., calibration gas, regulators, tubing, calibration bags, etc. as provided by the equipment supplier).

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5.2 Soil Headspace Vapour Measurement Procedure

The procedure for conducting soil headspace vapour measurements for soil sample headspace is as follows:

1. Unless pre-calibrated by the equipment supplier, calibrate the CGI/PID as per the instrument manufacturer's instructions before commencing soil vapour measurements. Record the date and time of calibration, and type and concentration of the calibration gas used in the field logbook or field forms;
2. Label the plastic bag with the sample number;
3. Create a split soil sample by splitting the sample core vertically (i.e., along the longitudinal axis) with one half used for soil headspace vapour measurement and the other half used to fill sample jars for laboratory analysis of volatile parameters (e.g., VOCs and PHCs (F1 fraction)). In other words, the depth interval of the soil subjected to soil headspace vapour measurements should be the same as the depth interval from which samples for volatile parameters are collected. This procedure doesn't apply to grab samples but is to be completed when soil cores are obtained, such as sampling with dual tube samplers, split-spoon samplers and hand augers. For grab samples, soil used for laboratory analysis and soil headspace vapour measurements should be collected from proximal locations;
4. Place the soil into the plastic bag until the bag is approximately one-quarter full as soon as possible after the sampling device is retrieved/opened;
5. Seal the bag and break apart the soil by manually kneading the soil in the sealed bag;
6. Allow the soil sample to equilibrate at ambient temperature for a minimum of 5 minutes but no longer than one hour before taking a soil headspace vapour measurement. The exception to this is that during winter conditions, the soil samples should be placed in a heated environment (e.g., building interior) to warm up for a minimum of 15 minutes before taking soil vapour measurements. In this case, the soil vapour measurements do not need to be completed within one hour of sample collection;
7. Do not store the bagged soil samples in direct sunlight prior to taking soil headspace vapour measurements;
8. When conducting soil headspace vapour measurements with a CGI, make sure it is switched to methane elimination mode;
9. When completing soil headspace vapour measurements of a soil sample using both a PID and CGI, the vapour measurement using the PID should be made first;

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10. Immediately before taking a soil headspace vapour measurement, gently agitate the bag and then create a small opening in the top of the bag. Insert the tip of the CGI/PID into the headspace of the bag and quickly reseal the bag around the tip to minimize leakage. If there is any water inside the bag, ensure that the tip does not contact the water;
11. Record the maximum vapour concentration measured within the first 10 seconds after inserting the tip of the CGI/PID into the bag. Note any anomalies that occur during the taking of the measurement (e.g., if the readings displayed by the instrument progressively increase and do not reach an obvious peak);
12. Remove the tip of the CGI/PID from the bag and reseal the bag immediately in case additional soil headspace vapour measurements are needed. If the soil headspace vapour is measured for a sample using a PID and an additional measurement with a CGI is required, wait a minimum of five minutes after the bag is resealed before taking the measurement with the CGI;
13. Before completing the next soil headspace vapour measurement, allow the CGI/PID to reach “zero” or “baseline”. If the CGI/PID does not return to “zero” or “baseline” it should be recalibrated before further soil headspace vapour measurements are made; and
14. At the discretion of the Project Manager, a calibration check of the CGI/PID should be completed at least once per day or at a frequency of once per 100 soil headspace vapour measurements (for projects where numerous soil headspace vapour measurements are made on a daily basis such as a large remediation project). A calibration check is made by measuring the concentration of a sample of the calibration gas with the CGI/PID without making any adjustments to the instrument beforehand and comparing the measured concentration with the known concentration. The comparison of the measured concentration versus the actual concentration of the calibration gas indicates how much the instrument’s calibration may have been altered during soil headspace vapour measurements, which is known as “instrument drift”. Should the calibration check show instrument drift of more than 10%, the CGI/PID needs to be recalibrated before completing further soil headspace vapour measurements. Record all pertinent information for the calibration check (e.g., date and time, initial measured concentration, calibration gas type and concentration) in the field logbook or field forms.

5.3 Visual Screening

Visual screening consists of examining the soil sample for potential indicators of contamination as per the following:

1. Visually examine the soil sample, including breaking apart a portion of the sample;

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2. Note any indications of a mottled appearance, dark discolouration or staining, free-phase product or unusual colour;
3. Note any indications of non-soil constituents, such as brick, asphalt, wood or concrete fragments, coal fragments, coal ash, etc.; and
4. Record the findings of the visual screening in the field logbook or field forms. If there is no visual evidence of impacts this should be noted.

5.4 Olfactory Screening

Record in the field logbook or field forms the presence of any odours noted during sample collection and visual screening. Field staff are not expected to directly smell soil samples to assess the presence/absence of odours.

If it is possible to identify the likely type of odour (e.g., PHC-like, solvent-like, etc.) then this information should be recorded along with a comment on the severity of the odour (e.g., slight, strong, etc.). If the odour cannot be readily identified, it should be described in the field notes as “unidentified odour”.

If no odours are observed, this information should also be recorded in the field logbook or field forms.

5.5 Additional Considerations for Ontario Regulation 153/04 Phase Two ESA Compliance

When completing a Phase Two Environmental Assessment (ESA) in accordance with Ontario Regulation 153/04, the following additional procedures must be undertaken:

- Calibration of the CGI/PID must be completed at the beginning of each field day and calibration checks must be made either at the end of each field day or after every 100 soil vapour readings (whichever occurs first); and
- Thorough records of the CGI/PID calibration and calibration checks must be kept, including any calibration sheets provided by the equipment supplier. The Quality Assurance/Quality Control section of the Phase Two ESA report requires a discussion of field screening instrument calibration, and equipment calibration records must be appended to the Phase Two ESA report.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

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7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

Association of Professional Geoscientists of Ontario, *Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended),* April 2011.

Ontario Ministry of the Environment, *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*, December 1996.

9.0 APPENDICES

None.

I:\2018 SOP Updates\SOP - EDR003 - REV004 - Field Screening of Soil Samples.docx

Template: Master SOP Template – February 2014

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SOP – EDR006 – REV003 – BOREHOLE DRILLING

Title:	Borehole Drilling
Practice:	EDR
First Effective Date:	November 25, 2010
Version:	003
Version Date:	January 3, 2018
Author:	Francesco Gagliardi and Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	November 25, 2010	N/A	FG
001	November 22, 2013	Streamlined text to reflect most common current practices/Removed sections covered by other SOPs	RM
002	April 29, 2016	Updated Section 4.0	RM
003	April 28, 2017	Removed reference to Pinchin West	RM
003	January 3, 2018	Reviewed and confirmed current	RM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) presents a description of the methods employed for the completion of boreholes and the collection of subsurface soil samples.

Boreholes are typically completed to determine geologic conditions for hydrogeological evaluation, to allow the installation of monitoring wells, and to allow for the collection of subsurface soil samples for laboratory analysis.

Several methods are available for the collection of shallow subsurface soil samples using hand-held equipment (e.g., hand augers, post-hole augers). However, the use of a drill rig, equipped with direct-push tooling, solid-stem augers and/or hollow-stem augers, is the most common method used by Pinchin to advance boreholes and will be the focus of this SOP.

A detailed discussion of all the various drilling rigs and drilling methods (e.g., direct push, augering, sonic drilling, air/water/mud rotary drilling, etc.) is beyond the scope of this SOP. The Project Manager will be responsible for determining the appropriate drill rig and drilling method for the site investigation.

The majority of the site investigations completed by Pinchin involve relatively straightforward drilling within the overburden within a one aquifer system. In some situations, such as when multiple aquifers are spanned by a borehole, when drilling into bedrock or when there are known impacts in the shallow subsurface, drilling using telescoped casing methods may be appropriate. Telescoped casing and bedrock drilling methods are beyond the scope of this SOP. In these situations, the Project Manager, in consultation with the drilling contractor, will be required to confirm the drilling requirements and procedures.

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3.0 OVERVIEW

Not applicable.

4.0 DISTRIBUTION

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- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

5.0 PROCEDURE

5.1 General

The overall borehole drilling program is to be managed in accordance with SOP-EDR005. In particular, utility locates must be completed in accordance with SOP-EDR021 before any drilling activities commence.

All non-dedicated drilling and sample collection equipment must be decontaminated in accordance with SOP-EDR009.

5.2 Prior Planning and Preparation

The planning requirements for borehole drilling programs are covered in detail in SOP-EDR005.

As noted above, the type of drilling rig and drilling method will be determined by the Project Manager when scoping out the site investigation. In some cases, a switch in drilling rig and/or drilling method may be required depending on site conditions. For example, if competent bedrock is encountered in the subsurface at a depth above the water table, bedrock coring would be required to advance the borehole deep enough to install a monitoring well.

5.3 Borehole Drilling Procedures

Once the final location for a proposed boring has been selected and utility clearances are complete, one last visual check of the immediate area should be performed before drilling proceeds. This last visual check should confirm the locations of any adjacent utilities (subsurface or overhead) and verification of adequate clearance.

In some instances, in particular where there is uncertainty regarding the location of buried utilities or the borehole is being completed near a buried utility, the use of a hydro-excavating (hydro-vac) unit will be required to advance the borehole to a depth below the bottom of the utility. The hydro-vac uses a

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combination of high-pressure water and high-suction vacuum (in the form of a vacuum truck) to excavate soil. This is also known as “daylighting”. The need to use a hydro-vac will be determined by the Project Manager.

If it is necessary to relocate any proposed borehole due to terrain, utilities, access, etc., the Project Manager must be notified and an alternate location will be selected.

5.4 Borehole Nomenclature

If a borehole is advanced strictly for the purpose of soil sampling and no monitoring well is installed, the borehole should be identified as “BHxx”. If a monitoring well is installed in a borehole, the borehole should be identified as “MWxx”.

To avoid confusion, for site investigations involving both boreholes and monitoring wells, the numerical identifiers are to be sequential (e.g., there should not be a BH01 and MW01 for the same project).

When completing supplemental drilling programs, the borehole number should start at either the next sequential number after the last borehole number used in the first stage, or label them as ‘100 series’, ‘200 series’, etc. as appropriate (e.g., BH101, MW102, etc. for the first series of additional boreholes).

It is also acceptable to add the 2 digit year either before or after the borehole or monitoring well name (e.g., 17-MW101 or MW101-17).

5.5 Borehole Advancement

Each borehole will be advanced incrementally to permit intermittent or continuous sampling as specified by the Project Manager. Typically, the sampling frequency is one sample for every 2.5 or 5 feet (0.75 or 1.5 metres) the borehole is advanced. At the discretion of the Project Manager, soil samples may be collected at a lower frequency in homogeneous soil or at a higher frequency if changes in stratigraphy or other visual observations warrant it.

5.6 Direct-Push Drilling

This method is most commonly used at Pinchin to obtain representative samples of the subsurface soil material at a site. Direct-push drilling is achieved by driving a steel sampler into the subsurface at 1.5 metre intervals until the desired depth is achieved. The samplers are advanced by the drilling rig by means of a hydraulic hammer. For each soil sample run, a dedicated PVC sample liner is placed within the steel sampler which collects the soil as the sampler is advanced. After each sample run, a new sampler is assembled and it is advanced deeper down the open borehole.

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There are generally two methods of direct-push drilling which are used:

- Dual-tube sampling; and
- Macro-core sampling.

A dual-tube sampler consists of an 8.25 centimetre (cm) inner diameter steel tooling (outer tube), equipped with a steel cutting-shoe affixed to the advancing end. A smaller diameter steel tooling, consisting of a 5.75 cm inner diameter (inner tube), fits within the outer tube and contains a PVC sample liner within. These two tubes form the completed dual-tube sampler. The completed dual-tube sampler has a length of 1.5 metres.

A macro-core sampler consists of the smaller inner tube (mentioned above) used independently. The macro-core sampler measures approximately 1.5 metres in length.

The difference in drilling methods used is typically determined by soil conditions. Where soil conditions consist of tight or dense soil types (e.g., silts or clays), the macro-core sampling method may be used as this method provides less resistance to advancing the sampler. In soil types that are less resistive (e.g., loose sands), the dual-tube sampler may be used.

5.7 Auger Drilling (Split-Spoon)

The auger drilling method for borehole advancement and sampling involves using an auger drill rig to advance the borehole to the desired sampling depth and sampling with a split-spoon sampler. Borehole advancement with hollow stem augers is the preferred drilling method when sampling with split-spoon samplers as it minimizes the potential for sloughed material to reach the bottom of a borehole and possibly cross-contaminate samples when the split-spoon is driven beyond the bottom of the borehole. Solid stem augers can be used when drilling at sites with cohesive soils (e.g., silty clay), provided that the borehole remains open after the augers are removed from the ground prior to driving the split-spoon sampler.

The split-spoon sampler consists of an 18- or 24-inch (0.45- or 0.60-metre) long, 2-inch (5.1 cm) outside diameter tube, which comes apart lengthwise into two halves.

Once the borehole is advanced to the target depth, the sampler is driven continuously for either 18 or 24 inches (0.45 or 0.60 metres) by a 140-pound (63.5 kilogram) hammer. The hammer may be lifted and dropped by either the cathead and rope method, or by using an automatic or semi-automatic drop system.

The number of blows applied in each 6-inch (0.15 metre) increment is counted until one of the following occurs:

- A total of 50 blows have been applied during any one of the 6-inch (0.15 metre) increments described above;
- A total of 100 blows have been applied;

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- There is no advancement of the sampler during the application of ten successive blows of the hammer (i.e., the spoon is "bouncing" on a cobble or bedrock); or
- The sampler has advanced the complete 18 or 24 inches (0.45 or 0.60 metre) without the limiting blow counts occurring as described above.

On the field form, record the number of blows required to drive each 6-inch (0.15 metre) increment of penetration. The first 6 inches is considered to be a seating drive.

The sum of the number of blows required for the second and third 6 inches (0.15 metres) of penetration is termed the "standard penetration resistance" or the "N-value". This information is typically provided on the borehole logs included in our site investigation reports.

The drill rods are then removed from the borehole and the split-spoon sampler unthreaded from the drill rods.

Caution must be used when drilling with augers below the groundwater table, particularly in sandy or silty soils. These soils tend to heave or "blow back" up the borehole due to the difference in hydraulic pressure between the inside of the borehole and the undisturbed formation soil. If blowback occurs, the drilling contractor will introduce water or drilling mud into the borehole or inside of the hollow-stem augers (if used) to equalize the hydraulic pressure and permit drilling deeper to proceed.

Heaving conditions and the use of water or drilling mud must be noted on the field logs, including the approximate volume of water or drilling mud used.

5.8 Auger Drilling (Direct Sampling)

In some jurisdictions (e.g., BC, Manitoba) it may be acceptable to collect soil samples directly from auger flights when using solid stem augers.

When sampling directly from auger flights, care must be exercised not to collect soils that were in direct contact with the auger or that were smeared along the edge of the borehole.

5.9 Borehole Advancement In Bedrock

It is sometimes possible to advance augers through weathered bedrock but borehole advancement through competent bedrock requires alternate drilling procedures. Bedrock drilling can be accomplished by advancing core barrels or tri-cone bits using air rotary or water rotary drilling methods. A description of the various bedrock drilling procedures is beyond the scope of this SOP.

The bedrock drilling method selected will depend in part on the type of bedrock, the borehole depth required, whether bedrock core logging is required, whether telescoped casing is required, etc. The Project Manager, in consultation with the drilling contractor, will determine the best method for advancing boreholes in competent bedrock.

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5.10 Borehole Soil Sample Logging and Collection

The following describes the methods for logging and collection of samples from a split-spoon or direct-push sampler but can be adapted for sample collection from augers:

1. After the driller opens the split-spoon sampler or PVC liner, measure the length of the soil core retained in the sampler in inches or centimetres. Be sure to be consistent in the use of metric or imperial units, and that the units used are clearly noted in the field notes. The percentage of soil retained versus the length of the sampler is known as "sample recovery" and this information is presented on the borehole logs within our Phase II ESA reports;
2. Dedicated, disposable nitrile gloves are to be worn during soil logging and sampling;
3. When using a dual-tube or macro-core sampler with direct-push drilling, there is usually sufficient sample recovery to permit the collection of two soil samples from each sample run. In this case, if the sample recovery is greater than 2.5 feet (0.75 metres), divide the recovered soil into two depth intervals and log/collect a sample from each interval. Split-spoon samplers typically are not long enough nor provide enough sample to divide a sample run into two. However, if a recovered sample contains distinct stratigraphic units (e.g., fill material and native material, obviously impacted soil and non-impacted soil), the distinct units are to be sampled separately. It is especially important that potentially impacted soil (e.g., fill material, obviously impacted soil) is not mixed with potentially unimpacted soil (e.g., native soil, soil without obvious impacts) to form one sample;
4. Discard the top several centimetres in each core as this material is the most likely to have sloughed off the borehole wall and may not be representative of the soil from the intended depth interval;
5. To minimize the potential for cross-contamination, scrape the exterior of the soil core with a clean, stainless-steel putty knife, trowel or similar device to remove any smeared soil. Note that is not practical and can be skipped if the soil is non-cohesive (e.g., loose sand);
6. Split the soil core longitudinally along the length of the sampler and to the extent practical, collect the soil samples for laboratory analysis from the centre of the core (i.e., soil that has not contacted the sampler walls). When sampling directly from augers, soils in direct contact with the auger or soils retained on the augers that may have been in contact with the edge of the borehole should not be collected.

   Collect soil samples for potential volatile parameter analysis and soil vapour measurement (in that order) as soon as possible after the core is opened. The length of time between opening the sampler and sample collection for these parameters should not

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exceed 2 minutes. It is important to follow this as it minimizes the potential for volatile constituents in the soil to be lost. See SOP-EDR003 for additional details regarding the collection of soil samples for soil vapour measurement;

7. Drillers are not to open the split-spoon sampler or PVC liner until instructed to do so. If drilling and sample retrieval is occurring at a rate faster than Pinchin staff are able to sample and log the soil cores, the drillers are to be instructed to slow down or stop until further notice. This will prevent a back log of soil cores from accumulating and minimize the exposure of the soil cores to ambient conditions. This is particularly important when sampling for VOCs;
8. Collect soil samples for the remaining parameters to be analyzed;
9. Soil samples are to be labelled and handled in accordance with SOP-EDR013;
10. Record the parameters sampled for, the type(s) and number of sample containers, and the time and date of sample collection in the field notes;
11. Determine the soil texture in accordance with SOP-EDR019 and record this information in the field notes;
12. Soil samples collected for soil headspace vapour measurement must not be submitted for laboratory analysis except for analysis of non-volatile parameters (i.e., metals and inorganics) or grain size analysis;
13. Immediately following collection, place each sample container in a cooler containing ice bags or ice packs; and
14. After the maximum borehole drilling depth is reached, measure the borehole depth with a weighted measuring tape and record the total depth in the field notes if the borehole diameter is large enough to permit measurement.

5.11 Borehole Backfilling.

Following completion of each borehole in which a well is not installed, it must be properly backfilled with bentonite and/or bentonite grout by the drilling contractor. The drilling contractor is to be consulted to confirm the proper borehole abandonment procedures required by the local regulations (e.g., Ontario Regulation 903 for Ontario sites).

Drill cuttings are not be used to backfill boreholes.

Record the borehole backfilling method and materials used in the field notes.

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5.12 Borehole Location Documentation

For each borehole, complete the following to document its location:

1. Photograph the completed borehole location. Close up photographs of the borehole are to be taken as well as more distant photographs that show the location of site landmarks relative to the borehole so that the photograph can be used to locate the borehole in the future; and
2. Using a measuring tape or measuring wheel, measure the distance between the borehole and a nearby landmark (e.g., corner of the nearest building) and provide a borehole location sketch in the field notes. Measurements are to be made at right angles relative to the orientation of the landmark or to a fixed axis (e.g., relative to true north). If required by the Project Manager, measure the UTM coordinates of the borehole with a hand-held GPS device.

5.13 Field Notes

The field notes must document all drilling equipment used, sample depths and measurements collected during the borehole drilling activities. The field notes must be legible and concise such that the entire borehole drilling and soil sampling event can be reconstructed later for future reference. The field notes are to be recorded on the field forms or in a field book.

5.14 Additional Considerations for O. Reg. 153/04 Phase Two ESA Compliance

None. Following this SOP will be sufficient to comply with the Ontario Regulation 153/04 requirements for Phase Two Environmental Site Assessments.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of Health & Safety Training by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

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8.0 REFERENCES

Canadian Standards Association, *Phase II Environmental Site Assessment, CSA Standard Z769-00 (R2008)*, dated 2000 and reaffirmed in 2008.

Association of Professional Geoscientists of Ontario, *Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)*, April 2011.

9.0 APPENDICES

None.

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SOP – EDR007 – REV004 – MONITORING WELL DESIGN AND CONSTRUCTION

Title:	Monitoring Well Design and Construction
Practice:	EDR
First Effective Date:	August 03, 2009
Version:	004
Version Date:	January 3, 2018
Author:	Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	August 03, 2009	N/A	MEM
001	November 26, 2010	Update approval signatures	FG
002	November 15, 2013	Streamlined to cross reference AAPGO guidance document/Added section on O. Reg. 153/04 compliance	RLM
003	April 29, 2016	Updated Section 4.0/Added procedure for outer casing installation in Ontario	RLM
004	April 28, 2017	Remove reference to Pinchin West/Added note to Section 5.2 about placing a reference mark at the top of the well pipe/Added note to Section 5.3 that O.Reg.153/04 requires well screens to intersect the water table when assessing groundwater for petroleum hydrocarbon impacts during a Phase Two ESA	RLM
004	January 3, 2018	Reviewed and confirmed current	RLM

2.0 SCOPE AND APPLICATION

Monitoring wells are installed in overburden and bedrock to enable the collection of groundwater samples from water bearing formations at project sites. For some projects, monitoring wells are also used to monitor for combustible gases in the subsurface.

A monitoring well consists of two parts: the well screen and the well casing (also known as the well riser). The well screen allows groundwater to enter the well from the formation adjacent to the well so that it can be sampled. The well casing allows access to the well from the ground surface.

In Ontario, the regulatory requirements for monitoring well installation are provided in Ontario Regulation 903. All drilling contractors who install groundwater monitoring wells in Ontario must be licensed with the Ontario Ministry of the Environment and Climate Change (MOECC). In addition, for any well installed at a depth of greater than 3.0 metres below ground surface, a Water Well Record must be prepared by the drilling contractor and submitted to the MOECC and the well owner (typically our client).

The design and construction of soil vapour monitoring wells is beyond the scope of this SOP and is described in SOP-EDR018.

3.0 OVERVIEW

Not applicable.

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4.0 DISTRIBUTION

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- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

5.0 PROCEDURE

5.1 General Considerations

5.1.1 Borehole and Well Diameters

The borehole diameter must be sufficient in size to accommodate the well casing, sand pack and seal materials. In Ontario, the borehole diameter and annular space surrounding the monitoring well must meet the requirements of Ontario Regulation 903. Other provinces have similar requirements that must be considered. It is the Project Manager's responsibility to be aware of specific provincial requirements. Wherever possible, 2-inch (5.1. centimetre) interior diameter monitoring wells should be installed as they permit the use of most sampling and monitoring devices, and will generally provide greater water volume for sampling, especially in low permeability soils. Monitoring wells with interior diameters between 1-inch (2.5 centimetres) and 1.5-inches (3.8 centimetres) are also considered acceptable in some jurisdictions but the use of monitoring wells smaller than 1-inch (2.5 centimetres) is not permitted unless approved by the Project Manager.

5.1.2 Screen Length and Placement

Well screens typically range in length from 1.5 to 3.0 metres. Saturated well screen lengths beyond 1.8 metres, including sand pack, should be avoided in British Columbia, as per British Columbia Ministry of Environment Technical Guidance 8.

Wells screens must not straddle more than one hydrostratigraphic unit and should not be placed such that a preferential pathway for contaminant migration is created between two hydrostratigraphic units. In particular, a well screen must not straddle the overburden/bedrock interface, and the well screen, sand pack and seal must be situated entirely within either the overburden or the bedrock. An exception to this if the well is installed for assessing dense non-aqueous phase liquid (DNAPL), the penetration into the bedrock is minimal, and bedrock fractures are isolated from the sand pack. This type of well installation must only be completed under the guidance of staff with the appropriate geological expertise to ensure it is done correctly.

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When determining the well screen length and depth of screen placement for a project, the following should be considered by the Project Manager:

- When assessing for the presence of light non-aqueous phase liquid (LNAPL) at the water table, longer well screens are preferred due to seasonal fluctuations in the water table and the well screen should intersect the water table whenever possible;
- When assessing for the presence of DNAPL, the well screen should be positioned at the bottom of the aquifer immediately above the aquitard;
- When assessing geochemical parameters, shorter well screens may be preferable to reduce the potential for mixing of water from distinct vertical geochemical zones;
- The use of long well screens within the saturated zone may result in the mixing of impacted and unimpacted groundwater from different depths within the aquifer, with the resulting dilution effect biasing the groundwater concentrations low; and
- Nested wells can be used to determine contaminant stratification within an aquifer or assess multiple aquifers, as long as the wells and individual aquifers are properly sealed off from each other within the borehole.

5.1.3 Well Screen/Casing Materials

Polyvinyl chloride (PVC) is the standard material used to construct groundwater monitoring wells. However, some organic compounds if present at excessive concentrations can degrade PVC, and stainless-steel or Teflon well materials may be considered for use by the Project Manager at such project sites.

A filter sock must not be placed over a well screen.

5.1.4 Well Screen Slot Size and Sand Pack

The slot size of the well screen will be determined by the size of the filter pack used. Pinchin typically uses No. 10 slot screen and #1 silica sand to form the sand pack around the well screen. When investigating a site with fine-grained soil, it may be appropriate to use a finer sand pack and smaller slot size to act as a "filter" to prevent as much fine-grained soil from entering the well as possible. The Project Manager should consult with the drilling contractor to determine the most appropriate screen slot size and sand pack size.

5.1.5 Bentonite Seal

The annular space above the sand pack in all wells is to be filled with bentonite. The purpose of placing the bentonite is create a seal above the sand pack that prevents a connection between other water bearing zones within the subsurface and/or water infiltration from the surface.

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5.1.6 Surface Completions

A protective steel casing and lockable cap are to be installed at each well to protect the well and prevent tampering. Protective casings come in two varieties: aboveground casings (commonly known as monument casings) and flush-mount casings.

Aboveground casings have the advantage of having better visibility and can be located more easily, especially during winter, are less likely to need repair, and have fewer problems related to water intrusion and frost heave of the casing.

Flush-mount casings are usually the only available option for wells installed in areas of high vehicular or pedestrian traffic. Also, some clients prefer flush-mount casings for aesthetic reasons as they are less obtrusive.

When installing a well in a high vehicular traffic area such as a roadway, the flush-mount casing must have sufficient strength to avoid damage when run over by vehicles. Flush-mount casings with brass lids should not be installed in high vehicular traffic areas as they are easily damaged to the point where they can no longer be opened.

5.2 Well Installation Procedures

Note that Pinchin field staff are not trained, nor have the necessary licensing, to install monitoring wells. This task is to be performed by the drilling contractor in accordance with the applicable regulatory requirements (e.g., Ontario Regulation 903 in Ontario). Pinchin field staff will assist the drilling contractor by specifying the general design of the monitoring well but will not perform the actual installation. The primary role of Pinchin field staff during well installation is to document the installation (e.g., measuring and/or recording the well length, screen length, depth to top of sand pack, etc.) as outlined below.

The following presents the general procedure for the completion of overburden and bedrock monitoring well installations after the borehole has been advanced to the appropriate depth:

1. Assemble the well by threading sufficient lengths of screen and riser materials together, and placing a threaded cap or slip-on cap at the bottom of the well. Well materials are to be kept in their plastic sleeves until immediately prior to well installation, and are not to be placed on the ground unless the ground surface is covered by clean plastic sheeting. Well materials should not be stored near potentially contaminated materials (e.g., soil cuttings);
2. Dedicated, disposable nitrile gloves are to be worn by all personnel handling the well materials and are to be replaced if they become contaminated during well installation. Confirm the length of the well screen, well riser and total length of well. This is especially important if the screen and/or riser are trimmed to fit the borehole depth or desired

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screen interval. Record the length of the well screen, the length of the well casing, the total length of the well (including the bottom cap), the type of bottom cap used, and the interior diameter of the well screen/well casing in the field notes;

3. Prior to placing the assembled well into the borehole, measure the depth from ground surface to the bottom of the borehole and record this depth in the field notes;
4. When possible, place a minimum of 0.15 metres of filter pack into the bottom of the borehole to provide a firm base for the well. Note that the placement of such a filter pack base may not be appropriate when investigating a site where DNAPLs are suspected as the filter pack base may act as a DNAPL "sump" beneath the well and the DNAPL may go undetected when monitoring the well;
5. Place the assembled well into the open borehole or within the interior of the hollow stem augers. If trimming of the well casing is required, measure the length of the trimmed piece and record this information in the field notes. Before installing the sand pack, place a J-plug or slip cap on the top of the well to prevent sand and seal materials from entering the well when backfilling the annular space between the well and the borehole walls;
6. Install the sand pack around the exterior of the well screen and extend it to between 0.3 and 0.6 metres above the top of the well screen. The sand pack should be installed slowly, and with a tremie pipe if possible, to minimize the potential for bridging of the sand pack. When installing a sand pack in a borehole that has been drilled with hollow stem augers, the sand pack should be installed in lifts of approximately 0.5 metres. After placement of each lift, the augers are withdrawn from the ground by approximately 0.5 metres and the process repeated until the sand pack is placed to the required depth. Measure the depth to the top of the sand pack and record this depth in the field notes;
7. Install a bentonite seal comprised of granular and/or powdered bentonite above the sand pack to within approximately 0.6 metres of the ground surface. The bentonite should be installed slowly, and with a tremie pipe if possible, to minimize the potential for bridging of the seal. For the portion of the seal located above the water table, distilled water is to be poured into the borehole for each lift placed above the water table (approximately 0.3 to 0.6 metres per lift) to hydrate the seal. Approximately 1 to 2 litres of distilled water per lift is considered sufficient to hydrate the seal. Measure the depth to the top of the bentonite seal and record this depth in the field notes;
8. Record whether the seal was hydrated during installation and over which depth interval. Note that in some jurisdictions very long bentonite seals can be broken up with sand intervals. This reduces the potential for ground heaving due to bentonite shrinking and swelling but the sand intervals must not connect hydraulically separated aquifers;

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9. (Ontario only) If the well is to be installed with a flush-mount protective casing, an outer casing comprised of a short length (10 to 15 cm) of PVC riser, or PVC coupling, that is slightly larger in diameter than the well casing needs to be installed around the well casing into the top of the bentonite seal, with the gap between the two casings sealed with bentonite. The top of the outer casing needs to be flush with or slightly below the top of the well casing. For example, if a 2-inch diameter well is installed, then a 10 to 15 cm length of 3-inch or 4-inch diameter riser or coupling placed around the 2-inch diameter well casing will suffice provided that bentonite is placed between the two casings. The flush-mount protective casing is then installed around the two casings. The outer casing does not need to be capped, and we only need to cap the well casing with a J-plug or slip cap;
10. (Ontario only) If the well is to be installed with a stick up protected by a monument casing, the procedure for installing the outer casing is essentially the same, except that the outer casing will extend from 10 to 15 cm below ground to above the ground surface, preferably flush with or slightly below the top of the well casing if the design of the monument casing permits it;
11. Place a protective well casing (monument or flush-mount) around the well casing and cement it in place;
12. Using a permanent marker, mark a point on the top of the well casing that will serve as a reference point for all future depth to water and elevation survey measurements. Measure the depth to groundwater in the well at the time of completion. Note the depth to water and time of measurement in the field notes;
13. Place a lockable J-plug on the well casing and ensure that the J-plug is tightened sufficiently to prevent surface water from infiltrating into the well if the well has a flush-mount completion. Place a lock on the J-plug for a flush-mount completion or on the lockable cap for an aboveground completion if required by the Project Manager. A PVC slip cap can also be used, especially for an aboveground completion;
14. Photograph the completed well installation. Close up photographs of the well are to be taken as well as more distant photographs that show the location of site landmarks relative to the well so that the photograph can be used to locate the well in the future; and
15. Using a measuring tape or measuring wheel, measure the distance between the well and a nearby landmark (e.g., corner of the nearest building) and provide a well location sketch in the field notes. Measurements are to be made at right angles relative to the orientation of the landmark or to a fixed axis (e.g., relative to true north). If required by the Project Manager, measure the UTM coordinates of the well with a hand-held GPS device.

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5.3 Additional Considerations for O. Reg. 153/04 Phase Two ESA Compliance

Ontario Regulation 153/04 mandates that well screens must not exceed 3.1 metres in length. In addition, whenever the Phase Two ESA includes the assessment of petroleum hydrocarbon impacts in groundwater, the well screen in each well must intersect the water table.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

Association of Professional Geoscientists of Ontario, *Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended),* April 2011.

British Columbia Ministry of the Environment, *Technical Guidance 8: Groundwater Investigation and Characterization*, July 2010.

9.0 APPENDICES

None.

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SOP – EDR008 – REV005 – MONITORING WELL SAMPLING

Title:	Monitoring Well Sampling
Practice:	EDR
First Effective Date:	November 8, 2013
Version:	005
Version Date:	January 3, 2018
Author:	Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	November 08, 2013	N/A	RM
001	September 25, 2015	Incorporated procedures specific to Pinchin West into SOP	RM
002	February 9, 2016	Revised overall procedure to be consistent with well development SOP/Added reference to revised well development field forms	RM
003	April 29, 2016	Updated Section 4.0	RM
004	April 28, 2017	Removed reference to Pinchin West	RM
005	January 3, 2018	Changed “submersible” to “centrifugal” throughout	RM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) describes the standard procedures for groundwater monitoring well purging and sampling, and provides a description of the equipment required and field methods.

Note that this SOP pertains to monitoring well sampling using the “well volume” purging procedure. Groundwater monitoring well purging and sampling using low flow procedures is described in SOP-EDR023.

3.0 OVERVIEW

Groundwater sampling involves two main steps: well purging followed by sample collection. All groundwater monitoring wells must be purged prior to groundwater sampling to remove groundwater that may have been chemically altered while residing in the well so that groundwater samples representative of actual groundwater quality within the formation intersected by the well screen can be obtained.

Monitoring well sampling should not be completed until at least 24 hours have elapsed following monitoring well development to allow subsurface conditions to equilibrate. Any deviation from this procedure must be discussed with the Project Manager before proceeding.

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5.0 PROCEDURE

5.1 Equipment and Supplies

5.1.1 Documents and Information Gathering

- A copy of the proposal or work plan;
- Monitoring well construction details (borehole logs, well construction summary table from a previous report or well installation field notes);
- A copy of this SOP;
- A site-specific Health and Safety Plan (as per the project requirements); and
- Client or site representative's contact details.

5.1.2 Well Purging and Sampling Equipment

- Inertial pump (e.g., Waterra tubing and foot valve) (Optional depending on jurisdiction);
- Peristaltic pump (Optional depending on the parameters being sampled);
- Centrifugal or bladder pump (Optional depending on jurisdiction and well depth);
- Disposable bailer (Optional);
- Graduated pail (to contain purge water and permit the volume of groundwater purged to be tracked);
- Pails or drums for purge water storage prior to disposal;
- Well keys (if wells are locked);
- Tools to open monitoring well (T-bar, socket set, Allen keys, etc.);
- Interface probe;
- Equipment cleaning supplies (see SOP-EDR009);
- Disposable latex or nitrile gloves; and
- Field forms.

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5.2 Purging Procedures

The well purging procedure employed will be determined by the hydraulic conductivity of the formation in which the groundwater monitoring well is installed. For this SOP, a high yield well is defined as a well that cannot be purged to dryness when pumping continuously at a rate of up to 2 litres per minute (L/min) and a low yield well is defined as a well that can be purged to dryness when pumping continuously at a rate of 2 L/min or less. This threshold represents a "normal" pumping rate when hand pumping with an inertial pump.

5.2.1 Purging of High Yield Wells

The procedure for purging a high yield monitoring well is as follows:

1. Decontaminate all non-dedicated monitoring and sampling equipment that will be used, including the interface probe and centrifugal or bladder pump (if used), in accordance with the procedures described in SOP-EDR009;
2. Review the well construction details provided in the borehole logs, previous field notes or well construction summary table from a previous report. Determine the well depth, well stick up, screen length, depth to top of sand pack and diameter of the borehole annulus. If the well depth is unavailable, measure it with the interface probe;
3. Measure the initial water level (i.e., static water level) from the reference point on the well (which should be marked at the top of the well pipe) with an interface probe. If measurable free-phase product is present on the water table, record the depth to the top of the free-phase product and the depth to the free-phase product/water boundary (i.e., water level), and discuss this with the Project Manager before proceeding further;
4. Calculate the well volume. **Note that for the purpose of this SOP, there are two definitions of well volume depending on the province in which the project is being conducted.** For Ontario and Manitoba, the well volume is defined as the volume of water within the wetted length of the well pipe (well pipe volume) plus the volume of water within the wetted length of the sand pack (sand pack volume). For British Columbia, Alberta and Saskatchewan, the well volume is defined as the volume of water within the wetted length of the well pipe (well pipe volume) only.

   The volume of water in the well pipe is calculated as follows:

   Well Pipe Volume (litres) = $h_w \times \pi \, r_w^2 \times 1{,}000$ litres per cubic metre (L/m^3)

   Where $\pi = 3.14$

   h_w = the height of the water column in the monitoring well in metres (wetted length)

   r_w = the radius of the monitoring well in metres (i.e., half the interior diameter of the well)

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The volume of the sand pack in the monitoring well is calculated as follows:

Sand Pack Volume (litres) = h_w x [(0.3 π r_b^2 x 1,000 L/m^3) – (0.3 π r_w^2 x 1,000 L/m^3)]

Where 0.3 = the assumed porosity of the sand pack

h_w = the height of the water column in the monitoring well in metres (wetted length)

π = 3.14

r_b = the radius of the borehole annulus in metres

r_w = the radius of the monitoring well in metres

For Ontario and Manitoba projects, the following table provides well volumes in litres/metre for typical well installations:

Borehole Annulus Diameter (Inches/Metres)	Well Interior Diameter (Inches)	Well Pipe Volume (Litres/Metre)*	Well Volume (Litres/Metre)*
4/0.1	1.25	0.8	2.9
	1.5	1.1	3.2
	2	2.0	3.8
6/0.15	1.25	0.8	5.9
	1.5	1.1	6.1
	2	2.0	6.7
8.25/0.21	1.5	1.1	11.2
	2	2.0	11.8
10.25/0.26	1.5	1.1	16.7
	2	2.0	17.3

* Litres to be removed per metre of standing water in the well (wetted length).

If the borehole annulus and well interior diameters match one of those listed above, to determine the volume of one well volume simply multiply the number in the last column of the table by the wetted length in the well. For example, if a 2-inch diameter well installed in a 8.25-inch diameter borehole has 2.2 metres of standing water, one well volume equals 26.0 litres (2.2 metres x 11.8 litres/metre).

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Note that the above well volume calculations apply only to wells where the water level in the well is below the top of the sand pack. If the water level is above the top of the sand pack, then the well volume is the volume of water in the sand pack and well pipe within the sand pack interval, plus the volume of water in the well pipe (i.e., well pipe volume) above the top of the sand pack. For example, assume a 2-inch diameter well has been installed in a 8.25-inch diameter borehole to a depth of 6.0 metres below ground surface (mbgs), with a 3.05 metre long screen. The sand pack extends from 6.0 mbgs to 2.5 mbgs and the water level is at 1.85 mbgs. One well volume equals ([6.0 metres – 2.5 metres] x 11.8 litres/metre) + ([2.5 metres – 1.85 metres] x 2.0 litres/metre) or 42.6 litres.

For British Columbia, Alberta and Saskatchewan projects, the well volume is calculated using the conversion factor listed in the third column of the above table. For example, if there are 2.5 metres of standing water in a 1.5-inch diameter well, one well volume equals 2.75 litres (2.5 metres x 1.1 litres/metre);

5. Lower the pump intake into the well until it is approximately 0.3 metres above the bottom of the well. Remove half a well volume while pumping at a rate of approximately 1 to 2 L/min. Record the approximate purge volume, pump intake depth and pertinent visual/olfactory observations (e.g., sheen, odour, free-phase product, sediment content, clarity, colour, etc.);
6. Move the pump intake upward to the middle of the water column (or middle of the screened interval if the water level in the well is above the top of the screen). Remove half a well volume (for a cumulative total of 1 well volume) while pumping at a rate of approximately 1 to 2 L/min. Record the approximate purge volume, pump intake depth and any pertinent visual/olfactory observations;
7. Move the pump intake upward to near the top of the screened interval (or near the top of the water column if the water level is currently below the top of the screen). Remove half a well volume (for a cumulative total of 1.5 well volumes) while pumping at a rate of approximately 1 to 2 L/min. Record the approximate purge volume, pump intake depth and any pertinent visual/olfactory observations.

   Note that if the wetted length is short within a well (e.g., 1.5 metres or less), there will not be enough separation between pump intake depths to warrant pumping from three depths (i.e., near the bottom, middle and top of the water column). In this case, pumping from two depths (i.e., near the bottom and top of the water column) is sufficient;
8. Repeat steps 5 through 7 until a minimum of 3 well volumes in total have been removed. If the purge water contains high sediment content after the removal of 3 well volumes, well purging should continue by removing additional well volumes until the sediment content visibly decreases. If the purge water continues to have high sediment content after the removal of 2 additional well volumes (i.e., 5 well volumes in total), contact the Project Manager to discuss whether well purging should continue; and

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9. Proceed with groundwater sample collection (see below).

Note that the use of a bailer to purge a high yield well with a wetted interval greater than 2 metres is not recommended given that the depth from which groundwater is removed is difficult to control.

5.2.2 Purging of Low Yield Wells

The procedure for purging a low yield monitoring well is as follows:

1. Decontaminate all non-dedicated monitoring and sampling equipment that will be used, including the interface probe and centrifugal or bladder pump (if used), in accordance with the procedures described in SOP-EDR009;
2. Review the well construction details provided in the borehole logs, previous field notes or well construction summary table from a previous report. Determine the well depth, well stick up, screen length, depth to top of sand pack and diameter of the borehole annulus. If the well depth is unavailable, measure it with the interface probe;
3. Measure the initial water level (i.e., static water level) from the reference point on the well (which should be marked at the top of the well pipe) with an interface probe. If measurable free-phase product is present on the water table, record the depth to the top of the free-phase product and the depth to the free-phase product/water boundary (i.e., water level), and discuss this with the Project Manager before proceeding further;
4. Position the pump intake at the bottom of the well. Purge the well to dryness at a rate of between approximately 1 and 2 litres L/min. At the conclusion of purging, drain the pump tubing if possible. Record the approximate purge volume;
5. After allowing sufficient time for the well to recover, proceed with sample collection (see below). Note that wherever possible, the well should be allowed to recover to at least 90% recovery before proceeding with sample collection. However, if recovery to this level requires more than one hour to complete, it is better to sample the well as soon as it recovers sufficiently to permit sampling, especially if samples are being collected for volatile parameters such as volatile organic compounds (VOCs) and petroleum hydrocarbons (PHCs) (F1); and
6. Record the water levels, time of water level measurements and well status (e.g., well recovery incomplete, 90% recovery target met) on the field form to document the well recovery. Purging of wells at the end of a day and returning to the site the following day to collect samples is not permitted unless the well recovery is so poor that this amount of time is needed for there to be sufficient recovery to permit sample collection.

Note that bailers can be used in lieu of a pump to purge a low yield well provided that the well yield is low enough to permit the draining of all of the groundwater in the well with the bailer.

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5.3 Well Purging Record

Well purging prior to sampling is to be documented through the completion in full of the following field forms located in the Pinchin Orchard:

- EDR-GW-Well Sampling-Low Yield Well; or
- EDR-GW-Well Sampling-High Yield Well.

Any deviations from this SOP along with the rationale for these deviations must be recorded on the forms.

5.4 Sample Collection

5.4.1 General Considerations

Inertial pumps are generally suitable for all sample collection for due diligence projects. However, the motion of the inertial pump in the water column of a well, even when pumping at a low rate, can create turbulence in the well that can suspend sediment already in the well or draw it in from the formation. Sediment captured in a sample can often result in positive bias to the analytical results, especially for the parameters PHCs (F3 and F4) and polycyclic aromatic hydrocarbons (PAHs), resulting in "false positives" that are not representative of actual groundwater quality. Sampling for these parameters following low flow purging and sampling procedures (SOP-EDR023) is an acceptable option to minimize potential sediment bias but because it is more expensive and time consuming than "conventional" sampling, it is typically not completed for due diligence projects. In lieu of low flow purging and sampling, a peristaltic pump, centrifugal pump or bladder pump is to be used as a "grab sampler" when sampling for PHCs (F2-F4) and PAHs.

In Ontario and Manitoba, or where otherwise prohibited by provincial guidance documents, peristaltic pumps must not be used to collect samples for analysis of volatile parameters, namely VOCs and PHCs (F1). As such, if the suite of parameters to be sampled at a given well includes VOCs and/or PHCs (F1), a "hybrid" sampling procedure is to be followed, in which samples for VOCs, PHCs (F1), PCBs and/or metals analysis are to be collected using an inertial pump and samples for PHCs (F2-F4) and PAHs analysis are to be collected using a peristaltic pump. Alternatively, the entire suite of parameters can be collected using a centrifugal or bladder pump.

The following table summarizes the pump types, parameters that can be sampled using each pump and how the well volume is determined for each province:

Jurisdiction	**Pump Type**	**Parameters**	**Well Volume**
BC	Inertial Pump	All Parameters	Well Pipe Volume
	Peristaltic Pump	All Parameters	Well Pipe Volume

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Jurisdiction	Pump Type	Parameters	Well Volume
Alberta/Saskatchewan	Inertial Pump	All Parameters Except PHCs (F2) and PAHs	Well Pipe Volume
	Peristaltic Pump	PHCs (F2) and PAHs	Well Pipe Volume
Manitoba/Ontario	Inertial Pump	All Parameters Except PHCs (F2-F4) and PAHs	Well Pipe Volume + Casing Volume
	Peristaltic Pump	PHCs (F2-F4) and PAHs	
All Provinces	Centrifugal Pump	All Parameters	As Per Above
All Provinces	Bladder Pump	All Parameters	As Per Above

Bailers should not be used for sample collection unless there is no other option (e.g., when there is minimal groundwater in a well). They can be used as a substitute for an inertial pump but may bias concentrations of volatile parameters low and concentrations of PHCs (F2-F4) and PAHs high. The use of a bailer for groundwater sample collection must be approved by the Project Manager.

There is a common misconception that using a peristaltic pump, centrifugal pump or bladder pump and sampling at a low pumping rate is “low flow sampling”. Sampling in this manner is essentially “grab sampling” using a device other than an inertial pump and is not “low flow sampling”. Only if groundwater sampling was completed in accordance with SOP-EDR023 can the sampling be referred to as “low flow sampling”.

5.4.2 Sampling of High and Low Yield Wells

The procedure for collecting groundwater samples from a high or low yield monitoring well is as follows:

1. Label the sample containers with the sample identifier, project number and date and time of sample collection. The sample containers for each well are be filled in the following order:
   - Volatiles parameters (e.g., VOCs, PHCs (F1));
   - Semi-volatile parameters (e.g., PHCs (F2-F4), PAHs); and
   - Non-volatile parameters (e.g., inorganic parameters, metals).

   There is an exception to the above sample collection order when using the “hybrid” sampling method. In this case, the semi-volatile parameters (PHCs (F2-F4) and/or PAHs) are to be sampled first using the peristaltic pump, centrifugal pump or bladder

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pump, followed by sampling volatile parameters and then non-volatile parameters using the inertial pump;

2. Position the pump intake at the approximate middle of the screened interval (or middle of the water column if the water level is below the top of the screen). At the discretion of the Project Manager, the pump intake may be positioned near the top of the water column if light non-aqueous phase liquids (LNAPLs) are being investigated (e.g., gasoline, fuel oil) and at the bottom of the well when dense non-aqueous phase liquids (DNAPLs) (e.g., chlorinated solvents) are being investigated. For a low yield well when the tubing was (or could) not be drained at the conclusion of purging, or when a high yield well is not sampled immediately after purging, pump sufficient water from the tubing before initiating sample collection at a rate of approximately 0.5 L/min to remove any water that was left over in the tubing following purging;
3. When sampling for volatile parameters (i.e., VOCs and PHCs (F1)), pump at a rate of approximately 0.5 L/min. When using an inertial pump, hold the pump vertical while pumping to minimize agitation and possible contaminant volatilization. During volatile parameter sampling, the tubing of the inertial pump must not contain air bubbles. If air bubbles are present, continue pumping until there are no air bubbles in the tubing. Once the tubing is full and free of air bubbles, carefully pour the groundwater from the tubing into the sample vials until they are filled to be headspace-free. When using a peristaltic pump (BC only), centrifugal pump or bladder pump for volatile parameter sampling, the samples can be collected by pumping directly into the sample containers until they are headspace-free. Once filled and capped, check each vial for air bubbles by turning it upside down. If bubbles are present in a vial, reopen it and add additional groundwater until there are no remaining bubbles;
4. When sampling for semi-volatile parameters, pump at a rate of between 0.5 and 1 L/min. The samples can be collected by pumping directly into the sample containers;
5. When sampling for non-volatile parameters, pump at a rate of between 0.5 and 1 L/min. The samples can be collected by pumping directly into the sample containers;
6. Samples collected for dissolved metals analysis are to be filtered in the field using dedicated, disposable 0.45 micron in-line filters or marked to be filtered by the laboratory, except for samples collected in Ontario for methyl mercury analysis which are not to be filtered. Field filtering must occur before samples for metals analysis are preserved. Prior to filling the first sample container using a new filter, the filter is to be “primed” by flushing a volume of water equal to twice the capacity of the filter through the filter. Samples for other parameters are not to be filtered in the field. In situations where field filtering cannot be completed, such as when sampling with a bailer, samples for metals analysis

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are to be collected in sample containers without preservatives and the analytical laboratory is to be instructed on the Chain-of-Custody to filter and preserve the samples upon receipt;

7. When collecting samples in containers that are pre-charged with preservatives, care must be taken not to overfill the containers as some of the preservative may be lost which will result in the sample not being properly preserved. Also, sample containers for metals analysis typically have a fill line marked on the container and the container must not be filled to above this line as this will cause dilution of the preservative and the sample may not be properly preserved;
8. Record the parameters sampled for, the purging and sampling equipment used, whether samples for metals analysis were field filtered, and the time and date of sample collection in the field forms; and
9. Immediately following collection, place each sample container in a cooler containing ice bags or ice packs.

5.5 Additional Considerations for O. Reg. 153/04 Phase Two ESA Compliance

Groundwater sampling conducted for a Phase Two ESA completed in accordance Ontario Regulation 153/04 must be completed when well yields permit using the low flow purging and sampling methods provided in SOP-EDR023 unless authorized by the Qualified Person responsible for the Phase Two ESA.

6.0 TRAINING

The Practice Leader is responsible for identifying the initial training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

Association of Professional Geoscientists of Ontario, "*Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)",* April 2011.

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9.0 APPENDICES

None.

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SOP – EDR009 – REV004 – FIELD DECONTAMINATION OF NON-DEDICATED MONITORING AND SAMPLING EQUIPMENT

Title:	Field Decontamination of Non-Dedicated Monitoring and Sampling Equipment
Practice:	EDR
First Effective Date:	August 03, 2009
Version:	004
Version Date:	January 3, 2018
Author:	Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	August 02, 2009	N/A	MEM
001	November 26, 2010	Updated Approval Signature/Added reference to Ontario Regulation 511/09	FG
002	September 20, 2013	Revised majority of text to reflect current practices/Focused on equipment cleaning and removed reference to personnel decontamination/Added section on O. Reg. 153/04 requirements/Revised reference list	RLM
003	April 29, 2016	Updated Section 4.0/Removed methanol as optional cleaning reagent	RLM
004	April 28, 2017	Removed reference to Pinchin West/In Section 5.2.2, modified requirements for cleaning water level tapes and interface probes/In Section 5.2.3, modified requirements for cleaning electrical or retrieval cables for pumps	RLM
004	January 3, 2018	Reviewed and confirmed current	RLM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) presents the general requirements for field decontamination of non-dedicated equipment used for monitoring of environmental media and the collection of environmental samples (i.e., equipment that is re-used between monitoring and sampling locations). Note that the procedures described in this SOP also apply to pumps used for well development.

3.0 OVERVIEW

The main purpose of non-dedicated monitoring and sampling equipment decontamination is to minimize the potential for cross-contamination during monitoring/sampling activities completed for site investigations. Cross-contamination can occur when equipment used to monitor/sample contaminated soil, groundwater or sediment is reused at another monitoring/sampling location without cleaning. This can result in the transfer of contaminants from a “dirty” monitoring/sampling location to a “clean” monitoring/sampling location, causing possible positive bias of subsequent samples. Positive sample bias can result in reported analytical results that are not representative of actual site conditions and, if significant cross-contamination occurs, can result in reported exceedances of the applicable regulatory standards for samples that would have met the standards had cross-contamination not occurred.

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Site investigations completed by Pinchin typically use the following non-dedicated monitoring/sampling equipment:

- Manually operated equipment (e.g., water level tapes/interface probes using during groundwater monitoring and sampling, knifes/spatulas used for soil sampling, hand augers);
- Pumps for groundwater monitoring well development, purging and/or sampling (e.g., bladder pumps, submersible pumps); and
- Downhole drilling/sampling equipment (e.g., split-spoon samplers, augers).

The above list is not all inclusive and other non-dedicated monitoring/sampling equipment may be employed during a site investigation that requires decontamination. For example, it may be appropriate to decontaminate the bucket of a backhoe used for test pitting between test pit locations. The Project Manager will be responsible for identifying the additional monitoring/sampling equipment that requires decontamination and instructing field staff regarding the procedure to be followed for cleaning this equipment.

When conducting field monitoring and sampling work in the field, it is not always possible to judge whether a monitoring/sampling location is uncontaminated. Because of this, it is important that all non-dedicated monitoring/sampling equipment be properly cleaned before initial use and between uses to minimize the potential for cross-contamination to occur.

4.0 DISTRIBUTION

This is an on-line document. Paper copies are valid only on the day they are printed. Refer to the author if you are in any doubt about the accuracy of this document.

This SOP will be distributed to all Pinchin staff and others as follows:

- Posted to the SOP section of the Environmental Due Diligence and Remediation (EDR) Practice Line on the Pinchin Orchard; and
- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

5.0 PROCEDURE

5.1 Equipment and Supplies

The following is a list of equipment needed to perform the decontamination of non-dedicated monitoring and sampling equipment in accordance with this SOP:

- Personal Protective Equipment (PPE);
- Potable tap water;
- Distilled water (store bought);

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- Volatile organic compound (VOC)-free deionized distilled water (supplied by the analytical laboratory);
- Laboratory grade, phosphate-free soap;
- Wash buckets (minimum of three);
- Scrub brushes;
- Paper towels; and
- Buckets or drums with resealable lids for containing liquids generated by equipment cleaning.

Other equipment required to clean drilling equipment (e.g., steam cleaner, power washer, tub for containing wash water, etc.) is typically provided by the drilling subcontractor. The Project Manager is responsible for ensuring that the drilling subcontractor brings the required cleaning equipment to the project site. Prior to mobilization, the Project Manager should also assess the availability of a potable water supply for drilling equipment cleaning at the project site. When no accessible potable water supply is available at a project site, the drilling subcontractor will need to bring a potable water supply to the site in the drill rig water supply tank or separate support vehicle, or arrange to have a third-party supplier deliver potable water to the site.

5.2 Procedure

5.2.1 General Procedures and Considerations

The following general procedures and considerations apply to all decontamination of non-dedicated monitoring/sampling equipment activities:

- Personnel will dress in suitable PPE to reduce personal exposure during equipment decontamination activities;
- In addition to cleaning between monitoring/sampling locations, all non-dedicated monitoring/sampling equipment must be cleaned before initial use. Field staff should not assume that the equipment was properly cleaned by the last person to use it;
- Prior to starting a drilling program, the downhole drilling equipment (e.g., augers) must be inspected and any “dirty” equipment must not be used in the drilling program or it must be cleaned prior to use; and
- All liquids and solids generated by the cleaning of non-dedicated monitoring/sampling equipment are to be containerized and managed in accordance with the procedures outlined in SOP-EDR020 – Investigation Derived Wastes.

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5.2.2 Decontamination of Manually Operated Monitoring/Sampling Equipment

The procedure for decontaminating manually operated monitoring/sampling equipment is as follows:

- Wash the equipment in a bucket filled with a mixture of phosphate-free soap/potable water, while using a brush to remove any obvious contamination and/or adhered soil;
- Rinse the equipment thoroughly in a bucket filled with potable water;
- Rinse the equipment thoroughly using a spray bottle filled with distilled water, capturing the rinsate in a bucket; and
- Allow the equipment to air dry. If there is insufficient time to allow the equipment to air dry before reusing, or the equipment cleaning is occurring during winter conditions, the equipment should be dried after the final rinse with a clean paper towel.

At the discretion of the Project Manager, it may be acceptable to use spray bottles, rather than buckets, for lightly contaminated equipment or if no obvious contaminants are present.

Should soil or obvious contaminants remain on the equipment after cleaning, the above procedure must be repeated until the soil or contaminants have been removed. The equipment should not be reused if repeated cleanings do not remove the soil or contaminants.

The above equipment cleaning procedure applies to, but is not limited to, the following non-dedicated monitoring/sampling equipment:

- Knives/spatulas used for soil sampling;
- Hand augers;
- Water level tapes and interface probes (both the end probe and portion of the tape that entered the well);
- The exterior of submersible pumps and interior/exterior of bladder pumps (including the portion of the electrical or retrieval cables that contact groundwater in a well); and
- Various pieces of drilling equipment, including split-spoon samplers, hollow stem auger centre plugs, continuous sampling tubes, and the reusable portions of dual-tube samplers.

At the discretion of the Project Manager, the distilled water used for the final equipment rinse will be VOC-free deionized distilled water supplied by the analytical laboratory. For example, the use of VOC-free distilled water would be appropriate for a project where trace VOCs are being investigated and it is important to minimize the potential for cross-contamination and positive bias of VOC sample results.

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For tapes associated with water level tapes and interface probes, if they were submerged in a monitoring well water free of non-aqueous phase liquids or obvious contamination, the tape can be cleaned at the discretion of the Project Manager by pulling the tape through a towel dampened with phosphate-free soap/potable water as the tape is retrieved. The end probe should then be cleaned as described above.

5.2.3 Decontamination of Groundwater Sampling Pumps

The exterior of each bladder or submersible pump that is used for well development, well purging and/or groundwater sampling, and the portion of any electrical or retrieval cables that entered the well, are to be cleaned following the procedure described above for decontaminating manually operated monitoring/sampling equipment.

Submersible pumps are not designed to be disassembled in the field and cleaning of the interior of this type of pump requires flushing of cleaning solutions through the pump. After cleaning the exterior of the pump, the minimum decontamination requirement for a submersible pump is the flushing of a phosphate-free soap/potable water mixture contained in a bucket through the pump (i.e., pumping the mixture through the pump and capturing the pump outflow in the same bucket or a separate bucket), followed by flushing distilled water contained in a separate bucket through the pump and capturing the pump outflow in the same bucket or separate bucket. Note that store bought distilled water is acceptable for this purpose.

At the discretion of the Project Manager and depending on the requirements of the project, the final step in the process is a final flush with laboratory-supplied VOC-free distilled water.

The following summarizes the flushing sequence for decontaminating the interior of a submersible pump:

- Soap/water mixture*;
- Distilled water (store bought)*; and
- Distilled water (laboratory supplied VOC-free distilled water - to be confirmed by the Project Manager).

* Minimum requirement.

Bladder pumps are designed for disassembly in the field to facilitate the replacement of the bladders. The internal parts of a bladder pump are to be cleaned in accordance with the procedure described above for decontaminating manually operated monitoring/sampling equipment. Whenever possible, bladders are to be disposed of between well locations. However, if it is necessary to reuse a bladder, it must be cleaned in accordance with the procedure for cleaning manually operated monitoring/sampling equipment. It should be noted that bladders are difficult to clean and the decontamination procedure needs to be thorough.

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Flushing of a bladder pump with distilled water after cleaning and reassembly is not required unless specified by the Project Manager.

5.2.4 Decontamination of Downhole Drilling Equipment

Hollow stem and solid stem augers used for borehole advancement are to be decontaminated by the drilling contractor using the following procedure:

- Wherever possible, all augers used for borehole drilling should be cleaned before initial use and between borehole locations by steam cleaning or power washing with potable water. However, the minimum requirements for auger cleaning are as follows:
  - Use a brush or shovel to remove excess soil from all used augers; and
  - Any augers that may come into contact with groundwater are to be decontaminated by steam cleaning or power washing with potable water. An auger must not be used for the balance of the drilling program if obvious contaminants or residual soil remain on the auger following decontamination, unless subsequent cleaning efforts remove these materials.

As noted previously, downhole drilling equipment used for soil sample retrieval (e.g., split-spoon samplers, continuous sampling tubes and the reusable portions of dual-tube samplers used with direct push rigs) and the hollow stem auger centre plug are to be decontaminated following the procedure outlined above for cleaning manually operated monitoring/sampling equipment.

5.3 Decontamination Records

Field personnel will be responsible for documenting the decontamination of non-dedicated monitoring/sampling equipment and drilling equipment in their field log book or field forms. The documentation should include the type of equipment cleaned and the frequency of cleaning, the methods and reagents used for equipment cleaning, and how fluids generated by the equipment cleaning were stored.

5.4 Additional Considerations for Ontario Regulation 153/04 Phase Two ESA Compliance

When completing a Phase Two Environmental Assessment (ESA) in accordance with Ontario Regulation 153/04, the following additional procedures must be undertaken:

- All augers must have excess soil removed by a brush or shovel and be steam cleaned or power washed before initial use and between borehole locations regardless of whether they contact the groundwater or not (i.e., the minimum requirements listed above for auger cleaning are not sufficient); and

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- Thorough records of the frequency and cleaning materials used for the decontamination of non-dedicated monitoring/sampling equipment and downhole drilling equipment must be kept. The Quality Assurance/Quality Control section of the Phase Two ESA report requires a summary of what steps were taken to minimize the potential for cross-contamination during the Phase Two ESA. The handling and disposal of fluids generated by equipment decontamination must also be well documented in the field for inclusion in the Phase Two ESA report.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

Association of Professional Geoscientists of Ontario, *Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended),* April 2011.

9.0 APPENDICES

None.

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Template: Master SOP Template – February 2014

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SOP – EDR013 – REV004 – SAMPLE HANDLING DOCUMENTATION

Title:	Sample Handling Documentation
Practice:	EDR
First Effective Date:	August 03, 2009
Version:	004
Version Date:	January 3, 2018
Author:	Mark McCormack and Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	August 03, 2009	N/A	MEM
001	November 26, 2010	Updated Approval Signature/Added reference to Ontario Regulation 511/09	FG
002	September 12, 2013	Updated text/Added tables from MOE lab protocol/Streamlined reference section/Added O. Reg. 153/04 compliance section	RLM
003	April 29, 2016	Updated Section 4.0/Aligned document retention with PEP	RLM
004	April 28, 2017	Removed reference to Pinchin West	RLM
004	January 3, 2018	Reviewed and confirmed current	RLM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) presents the general requirements for sample handling and documentation practices.

3.0 OVERVIEW

Not applicable.

4.0 DISTRIBUTION

This is an on-line document. Paper copies are valid only on the day they are printed. Refer to the author if you are in any doubt about the accuracy of this document.

This SOP will be distributed to all Pinchin staff and others as follows:

- Posted to the SOP section of the Environmental Due Diligence and Remediation (EDR) Practice Line on the Pinchin Orchard; and
- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

5.0 PROCEDURE

5.1 Equipment Required

- Laboratory-supplied sample containers;
- Field log book or field forms; and
- Laboratory-supplied Chain-of-Custody forms.

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5.2 Procedures

5.2.1 Sample Labelling

Sample labels are to be filled out in the field at the time of sampling as completely as possible by field personnel. All sample labels shall be filled out using waterproof ink. At a minimum, each label shall contain the following information:

- Sample identifier, consisting of sample location (borehole number, monitoring well number, surface sample location, etc.) and sample number (if appropriate). For example, the second soil sample collected during borehole advancement at borehole BH3 would be labelled "BH3-2";
- Pinchin project number;
- Date and time of sample collection;
- Company name (i.e., Pinchin); and
- Type of analysis.

5.2.2 Sample Containers, Preservation and Holding Times

The sample containers, sample preservation and holding times for projects in Ontario are to be those specified in Table A (for soil and sediment) and Table B (groundwater) from the Ontario Ministry of the Environment Climate Change (MOECC, formerly the Ontario Ministry of the Environment) document entitled *"Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act",* dated March 9, 2004, amended as of July 1, 2011. These tables are attached and form part of this SOP.

With reference to the attached Tables A and B, field personnel must use the sample containers appropriate for the parameters being sampled for, undertake any required field preservation or filtration and observe the sample holding times.

Each province has its own preservation and holding time regulations or guidance, which are generally similar. It is the Project Manager's responsibility to ensure that field staff are aware of, and can meet, the requirements in the province they are working in.

5.2.3 Sample Documentation

The following sections describe documentation required in the field notes and on the Chain-of-Custody forms.

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Field Notes

Documentation of observations and data from the field will provide information on sample collection and also provide a permanent record of field activities. The observations and data will be recorded using a pen with permanent ink in the field log book or on field forms.

The information in the field book or field forms will, at a minimum, include the following:

- Site name;
- Name of field personnel;
- Sample location (borehole number, monitoring well number, surface sample location, etc.);
- Sample number;
- Date and time of sample collection;
- Description of sample;
- Matrix sampled;
- Sample depth (if applicable);
- Method of field preservation (if applicable);
- Whether filtration was completed for water samples;
- Analysis requested;
- Field observations;
- Results of any field measurements (e.g., field screening measurements, depth to water, etc.); and
- Volumes purged (if applicable).

In addition to the above, other pertinent information is to be recorded in the field log book or field forms depending on the type of sampling being completed (e.g., field parameter measurements and pumping rates for low flow sampling) as required by the SOP for the particular sampling activity.

Sufficient information should be recorded to allow the sampling event to be reconstructed without relying on the sampler's memory.

All field notes are to be scanned and saved to the project folder on the server immediately upon returning from the field.

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Sample Chain-of-Custody

Sample Chain-of-Custody maintains the traceability of the samples from the time they are collected until the analytical data are issued by the laboratory. Initial information concerning collection of the samples will be recorded in the field log book or field forms as described above. Information on the custody, transfer, handling and shipping of samples will be recorded on a Chain-of-Custody for each sample submission.

All signed Chain-of-Custody forms will be photocopied or duplicate copies retained prior to sample shipment. A Chain-of-Custody should be laboratory-specific and will typically be supplied by the laboratory with the sample containers requested for the project. The sampler will be responsible for fully filling out the Chain-of-Custody for each sample submission.

The Chain-of-Custody will be signed by the sampler when the sampler relinquishes the samples to anyone else (i.e., courier or laboratory). Until samples are picked up by the courier or delivered to the laboratory, they must be stored in a secure area. The following information needs to be provided on the Chain-of-Custody at a minimum:

- Company name;
- Name, address, phone number, fax number and e-mail address of the main contact for the submission (typically the Project Manager);
- Project information (project number, site address, quotation number, rush turnaround number, etc.);
- Regulatory standards or criteria applicable to the samples (including whether the samples are for regulated drinking water or whether the samples are for a Record of Site Condition);
- Sample identifiers;
- Date and time of sample collection;
- Matrix (e.g., soil, groundwater, sediment, etc.);
- Field preservation information (e.g., whether groundwater samples for metals analysis were field filtered);
- Analyses required;
- Number of sample containers per sample;
- Analytical turnaround required (i.e., standard or rush turnaround);
- Sampler's name and signature;
- Date and time that custody of the samples was transferred;

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- Name and signature of person accepting custody of the samples from Pinchin, and date and time of custody transfer; and
- Method of shipment (if applicable).

The person responsible for delivery of the samples to the laboratory or transfer to a courier will sign the Chain-of-Custody, retain a duplicate copy or photocopy of the Chain-of-Custody so it can be scanned and saved to the project file, document the method of shipment, and send the original copy of the Chain-of Custody with the samples.

5.3 Additional Considerations for Ontario Regulation. 153/04 Phase Two ESA Compliance

Custody seals must be placed on all coolers containing samples prior to transfer to a courier or delivery to the laboratory. The laboratory will comment on the presence/absence of custody seals in the Certificate-of-Analysis for each submission and this information must be discussed in the Quality Assurance/Quality Control section of the Phase Two Environmental Site Assessment report.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

Ontario Ministry of the Environment and Climate Change, *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act*, March 9, 2004, as amended as of July 1, 2011.

9.0 APPENDICES

Appendix I Tables A and B From Ontario MOECC Laboratory Protocol

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APPENDIX I

Tables A and B From Ontario MOECC Laboratory Protocol

TABLE A: SOIL AND SEDIMENT Sample Handling and Storage Requirements

SOIL Inorganic Parameters	Container[1]	Field Preservation	Storage Temp.[2]	Preserved Holding Time[3]	Unpreserved Holding Time[3]
Chloride, electrical conductivity	glass, HDPE or PET	none	5 ± 3 °C		30 days as received (without lab drying); indefinite when dried at the lab
Cyanide (CN^-)	glass wide-mouth jar, Teflon™ lined lid	protect from light	5 ± 3 °C		14 days
Fraction organic carbon (FOC)	glass jar, Teflon™ lined lid	none	5 ± 3 °C		28 days as received(without lab drying); indefinite storage time when dried
Hexavalent chromium	glass, HDPE	none	5 ± 3 °C		30 days as received
Metals (includes hydride-forming metals, SAR, HWS boron, calcium, magnesium, sodium)	glass, HDPE	none	5 ± 3 °C		180 days as received (without lab drying); indefinite when dried at the lab
Mercury, methyl mercury	glass, HDPE or PET	none	5 ± 3 °C		28 days
pH	glass, HDPE or PET	none	5 ± 3 °C		30 days as received
SOIL Organic Parameters	**Container [1,5,6,7,20]**	**Field Preservation**	**Storage Temp.[2]**	**Preserved Holding Time[3]**	**Unpreserved Holding Time[3]**
BTEX[8], PHCs (F1)[8], THMs, VOCs[7] **NB: SEE FOOTNOTE #20**	40–60 mL glass vial (charged with methanol preservative, pre-weighed)[6] AND glass jar (for moisture content) [hermetic samplers are an acceptable alternative[5, 18]]	methanol (aqueous $NaHSO_4$ is an acceptable alternative for bromomethane)[6, 7, 18,20]	5 ± 3 °C	14 days	hermetic samples: stabilize with methanol preservative within 48 hours of sampling[18]
1,4-Dioxane[9, 15]	when processed as a VOC sample: same as per VOCs above; when processed as an extractable: same as per ABNs below; (consult laboratory)[9,15,18]		5 ± 3 °C	14 days	when processed as a VOC sample: same as per VOCs above; when processed as an extractable: same as per ABNs below; (consult laboratory)[18]
PHCs (F2–F4)	glass wide-mouth jar, Teflon™ lined lid	none	5 ± 3 °C		14 days
ABNs, CPs, OCs, PAHs	glass wide-mouth jar, Teflon™ lined lid	none	5 ± 3 °C		60 days
Dioxins and furans, PCBs	glass wide-mouth jar Teflon™ lined lid	none	5 ± 3 °C		indefinite storage time

HDPE = high density polyethylene; PET = polyethylene terephthalate; HWS = hot water soluble boron; THM = trihalomethanes; VOC = volatile organic compounds; BTEX = benzene, toluene, ethylbenzene, xylenes; PHCs = petroleum hydrocarbons; CPs = chlorophenols; PCBs = polychlorinated biphenyls; OCs = organochlorine pesticides

[1–20]footnotes immediately follow Table B

TABLE B: GROUND WATER Sample Handling and Storage Requirement

GROUND WATER Inorganic Parameters	**Container[10]**	**Field Preservation**	**Storage Temperature[2]**	**Preserved Holding Time[3]**	**Unpreserved Holding Time[3]**
Chloride, electrical conductivity, pH	HDPE or glass	none	5 ± 3 °C		28 days
Cyanide (CN^-)	HDPE or glass	NaOH to a pH > 12	5 ± 3 °C	14 days	must be field preserved
Hexavalent chromium	HDPE or glass	field filter followed by buffer solution to a pH 9.3–9.7 [17]	5 ± 3 °C	28 days[17]	24 hours[17]
Metals (includes hydride-forming metals, calcium, magnesium, sodium)	HDPE or Teflon™ [10]	field filter followed by HNO_3 to pH < 2[11]	room temperature when preserved	60 days	must be field preserved
Mercury	glass or Teflon™ [10]	field filter followed by HCl to pH < 2[11]	room temperature when preserved	28 days	must be field preserved
Methyl mercury	glass or Teflon™	DO NOT FILTER HCl or H_2SO_4 to pH <2[12]	5 ± 3 °C	28 days	DO NOT FILTER must be field preserved[12]
GROUND WATER Organic Parameters[10, 13, 14]	**Container[10, 13, 14]**	**Field Preservation**	**Storage Temperature[2]**	**Preserved Holding Time[3]**	**Unpreserved Holding Time[3]**
BTEX, PHCs (F1),THMs, VOCs;	40–60 mL glass vials (minimum of 2)[14] (no headspace)	$NaHSO_4$ or HCl to a pH < 2[16]	5 ± 3 °C	14 days	7 days
1,4-Dioxane[9, 15]	when processed as a VOC sample: same as per VOCs above; when processed as an extractable: same as per ABNs below; (consult laboratory)[9, 15]		5 ± 3 °C	14 days	14 days
PHCs (F2–F4)	1L amber glass bottle, Teflon™ lined lid	$NaHSO_4$ or HCl to a pH < 2[16]	5 ± 3 °C	40 days	7 days
ABNs, CP, OCs, PAHs[19], PCBs	1L amber glass bottle, Teflon™ lined lid	none	5 ± 3 °C		14 days
Dioxins and furans	1L amber glass bottle, Teflon™ lined lid	None	5 ± 3 °C		indefinite storage time

HDPE = high density polyethylene;THM = trihalomethanes; VOC = volatile organic compounds; BTEX = benzene, toluene, ethylbenzene, xylenes; PHCs = petroleum hydrocarbons; CPs = chlorophenols; PCBs = polychlorinated biphenyls; OCs = organochlorine pesticides

1 One soil container is generally sufficient for inorganic analysis and another for extractable organics. A separate container is required for BTEX, THM, VOC and PHC (F1) moisture analysis.

2 Storage temperature refers to storage at the laboratory. Samples should be cooled and transported as soon as possible after collection.

3 Holding time refers to the time delay between time of sample collection and time stabilization/analysis is initiated. For samples stabilized with methanol, the hold time for the recovered methanol extract is up to 40 days.

[4] PET can not be used for samples requiring antimony analysis.

[5] As an alternative, the USEPA has investigated hermetic sample devices that take and seal a single core sample. The sample is submitted as is to the laboratory where it is extruded into an extracting solvent. Samples must be received at the laboratory within 48 hours of sampling. (Note that replicate samples are necessary for bisulphate and methanol extraction for all samples plus laboratory duplicates and spikes.) Consult the laboratory for the number of samples required.

[6] The USEPA has approved field preservation. Pre-weighed vials containing known weights of methanol preservative (or aqueous sodium bisulphate if used for bromomethane) are sent to the field. Sample cores (approximately 5 g) are extruded directly into the vial. The vials are sealed, and submitted directly to the laboratory. In practice, this technique requires great care to prevent losses of methanol due to leaking vials or through splashing. Consult the laboratory for the number of containers required.

[7] Methanol-preserved samples may elevate the detection limit for bromomethane (VOC); a separate bisulphate-preserved sample or hermetically sealed sample may be submitted at the time of sampling if bromomethane is a chemical of concern – contact the laboratory to determine if a separate sample should be collected.

[8] For BTEX and PHC (F1) pre-charging the soil sampling container with methanol preservative is an accepted deviation from the CCME method.

[9] 1,4-Dioxane may be analyzed with the ABNs or VOCs; sample container requirements used for ABNs or VOCs are both acceptable. If 1,4-dioxane is to be analyzed with ABNs, follow the ABN sample container requirements; similarly if it is to be analyzed with VOCs, follow VOC sample container requirements. Consult the laboratory for the container type and the total number required (see also footnote #15).

[10] Samples containing visual sediment at the time of analysis should be documented and noted on the Certificate of Analysis or written report as results may be biased high due to the inclusion of sediment in the extraction.

[11] Field filter with 0.45µm immediately prior to adding preservative or filling pre-charged container.

[12] Sample directly into a HCl or H_2SO_4 preserved container, or add acid to an unfiltered sample immediately after sample collection in the field.

[13] Aqueous organic samples should be protected from light. If amber bottles are not available, glass should be wrapped in foil.

[14] Separate containers are required for each organic water analysis. Consult the laboratory for required volumes. Chloride and electrical conductivity can be taken from the same container.

[15] For 1,4-dioxane in soil and sediment, no preservative is required if processed as an ABN, however. Methanol is an acceptable alternative if processed as a VOC. For 1,4-dioxane in groundwater, no preservative is required, however, $NaHSO_4$ or HCl are acceptable alternatives.

[16] Preserved to reduce biodegradation, however effervescence/degassing may occur in some ground water samples. In this case, rinse preservative out three times with sample and submit to the laboratory as unpreserved.

[17] To achieve the 28-day holding time, use the ammonium sulfate buffer solution [i.e., $(NH_4)_2SO_4/NH_4OH$] or $(NH_4)_2SO_4/NH_4OH$/NaOH + NaOH] as specified in EPA Method 218.6 (revision 3.3, 1994) or Standard Methods 3500-Cr Chromium (2009).Using only NaOH without the ammonium sulfate buffer to adjust the pH would require analysis within 24 hours of sampling.

[18] Alternatively, to achieve a longer hold time, hermetic samples may be frozen within 48 hours of sampling as per ASTM method D6418 – 09; however, storage stability must be validated by the laboratory with no more than 10% losses.

[19] For benzo(a)pyrene in ground water samples filtration prior to analysis on a duplicate sample is permitted.

[20] For VOC, BTEX, F1 PHCs, 1,4 dioxane soil samples collected before July 1, 2011, the following sampling and handling requirements are also permitted.

SOIL Organic Parameters	Container	Preservative	Storage Temperature	Preserved Holding Time	Unpreserved Holding Time
VOC, BTEX, F1 PHCs, 1,4-dioxane*	glass jar, Teflon lined lid, no headspace, separate container required Hermetic samplers are an acceptable alternative	none field preservation with aqueous sodium bisulphate and methanol is an acceptable alternative	5 ± 3C	See notations 1-3 below	Stabilize by extraction or freezing within 48 hrs of receipt at the laboratory (7days from sampling). Frozen or field preserved samples must be extracted within 14 days of sampling.

*Special care must be used when sampling for VOC, BTEX and F1 in soil and sediment. Studies have shown that substantial losses can occur through volatilization and bacterial degradation. There are several allowable options for field collection of samples. Each is discussed below. Consult SW846, Method 5035A for additional detail. The laboratory is required to stabilize the sample on the day of receipt, either by extraction or freezing.

1. Collection in soil containers: To minimize volatilization losses, minimize sample handling and mixing during the process of filling the sample container. The bottle should be filled with headspace and voids minimized. Care is required to ensure that no soil remains on the threads of the jar, preventing a tight seal and allowing volatilization losses. To minimize losses through bacterial degradation, commence cooling of the samples immediately and transport the samples to the lab as soon as possible, ideally on the day of sampling. Samples must be received at the laboratory within 48 hours of sampling. Freezing can be used to extend the hold time to 14 days, however the practice is difficult to implement in the field and can cause sample breakage.
2. As an alternative, the USEPA has investigated hermetic sample devices that take and seal a single core sample. The sampler is submitted as is to the laboratory where it is extruded into the extracting solvent. Samples must be received at the laboratory within 48 hours of sampling. This technique minimizes volatilization losses and is worth consideration for critical sites. (Note that replicate samplers are necessary for bisulphate and methanol extraction for all samples plus lab duplicates and spikes). Consult the laboratory for the number of samplers required.
3 The USEPA has also approved field preservation. Pre-weighed vials containing known weights of methanol and aqueous sodium bisulphate preservative are sent to the field. Sample cores (≈5 g) are extruded directly into the vial. The vials are sealed, and submitted directly to the laboratory. In practice, this technique requires great care to implement successfully. Losses due to leaking vials, through splashing and effervescence (aqueous bisulphate) can easily occur and make the sample unusable. Consult the laboratory for the number of containers required.

SOP – EDR016 – REV003 – FIELD MEASUREMENT OF WATER QUALITY PARAMETERS

Title:	Field Measurement of Water Quality Parameters
Practice:	EDR
First Effective Date:	November 24, 2010
Version:	003
Version Date:	January 3, 2018
Author:	Paresh Patel
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	November 24, 2010	N/A	PDP
001	October 31, 2013	Cross-referenced low flow sampling SOP/Added section on O. Reg. 153/04 compliance	RLM
002	April 29, 2016	Updated Section 4.0	RLM
003	April 28, 2017	Removed reference to Pinchin West	RLM
003	January 3, 2018	Reviewed and confirmed current	RLM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) describes the standard procedures for measuring water quality parameters during water sampling, and covers the calibration and use of multi-parameter and single-parameter probes for monitoring in situ water quality parameters in streams, down hole in monitoring wells and in flow-through cells. Water quality parameters may include temperature, pH, dissolved oxygen (DO), oxidation reduction potential (ORP), conductivity and turbidity.

Measurements of water quality parameters are typically made for two main purposes: to provide information on water geochemistry to assist in designing in situ remediation programs and to assess whether representative formation groundwater is being sampled during low flow purging and sampling. They can also be used to assess whether well development is complete in certain situations (see SOP-EDR018).

3.0 OVERVIEW

Not applicable.

4.0 DISTRIBUTION

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- Posted to the SOP section of the Environmental Due Diligence and Remediation (EDR) Practice Line on the Pinchin Orchard; and
- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

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5.0 PROCEDURE

5.1 Equipment and Reagents Required

- Single or multi-parameter probes for monitoring water quality parameters;
- Calibration solutions for calibrating the probes to the standard values;
- Field book or field forms;
- Distilled water;
- Beaker or bucket;
- Stirrer for DO measurement (optional); and
- Flow-through cell (optional).

5.2 Probe Measurement Accuracy

The probes utilized for measuring water quality parameters shall be capable of producing measurement accuracy greater or equal to the following specifications:

Temperature:	± 0.5 degrees Celsius (°C)
Conductivity:	± 1 microSiemens per centimetre (µS/cm)
pH:	±0.1 pH unit
Dissolved Oxygen:	±0.2 milligrams per litre (mg/L) up to20 mg/L
	± 0.6 mg/L greater than 20 mg/L
Turbidity:	±1% up to 100 Nephelometric Turbidity Units (NTU)
	±3% up to 100-400 NTU
	±5% up to 400-3,000 NTU
ORP:	± 20 millivolts (mV)

5.3 Probe Calibration

Calibrate the water quality probes used for field parameter measurement in accordance with the manufacturer's specifications. Wherever possible, arrange for the equipment rental company to calibrate the water quality probes and provide a calibration sheet that contains information such as calibration date and calibration measurements for each parameter. If the water quality probes are used for more than one day, a calibration check must be performed using standard calibration solutions at the start of each day at a minimum. If the calibration check shows deviations from the standard values that exceed the ranges provided below, the probe(s) that exceed the ranges must be calibrated prior to further use:

pH	±0.1 pH units
Specific Conductance	±3%
Temperature	±3%

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DO	±10%
ORP	±10 mV
Turbidity	±10%

A calibration check should also be performed if the parameter measurements suggest that calibration drift has occurred. Document all calibration activities in the field notes, including date and time of calibration/calibration check, calibration solutions used, probe readings, and make, model and serial number of the instrument(s). Note that if the water quality probe manufacturer recommends more frequent calibration/calibration checks than specified above, the manufacturer's recommendations are to be followed.

Extra care must be taken to calibrate a multi-parameter probe to prevent cross-contamination. Specifically, following immersion of the probes into each calibration standard, all probes should be thoroughly rinsed in distilled water and the excess water shaken off or blotted dry with a lint-free wipe. Conductivity standards are much more sensitive to cross contamination/dilution than other standards, and prior to immersion in a conductivity standard, all probes should be thoroughly rinsed and completely dried with lint-free wipes. Besides being easily diluted, conductivity also affects other parameters (specifically DO), and the conductivity probe should always be the first probe calibrated. The following order for calibration of a multi-parameter probe is to be followed:

1. Specific Conductance;
2. pH;
3. DO; and
4. Turbidity.

There is no recommended order for calibration of other parameters.

5.4 Single-Parameter Probes

Prior to conducting field measurements, probe sensors must be allowed to equilibrate to the temperature of the water being monitored. Probe sensors have equilibrated adequately when the temperature reading has stabilized. Deployment of single-parameter probes will follow the following procedures:

5.4.1 Temperature

Whenever possible the temperature shall be measured in situ (i.e., within a stream, direct deployment in a monitoring well). When temperature cannot be measured in situ, it can be measured in a beaker or bucket. The following conditions must be met when measuring temperature within a beaker or bucket:

- The beaker or bucket shall be large enough to allow full immersion of the temperature probe. The beaker or bucket is to be rinsed with water from the well or stream being measured prior to obtaining the measurement;

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- The probe must be placed in the beaker or bucket immediately before the temperature changes due to ambient conditions;
- The beaker or bucket must be shaded from direct sunlight and strong breezes before and during temperature measurement; and
- The probe must be allowed to equilibrate for at least 1 minute before temperature is recorded.

5.4.2 pH

Preferably, pH is measured in situ at the centroid of flow and at the mid-depth of a stream, or the mid-point of the well screen in a well. The pH probe must be allowed to equilibrate according to the manufacturer's recommendations before the pH value is recorded without removing the probe from the water.

If the pH cannot be measured in situ, it should be measured in a bucket or beaker using the procedures outlined above for measuring temperature.

5.4.3 Dissolved Oxygen

As for pH, it is preferable to measure DO in situ at the centroid of flow and at the mid-depth of a stream, or the mid-point of the well screen in a well. The DO probe must be allowed to equilibrate according to manufacturer's recommendations before the DO value is recorded without removing the probe from the water.

If DO cannot be measured in situ, it should be measured in a bucket or beaker using the procedures outlined above for measuring temperature.

Some types of DO probes require a sufficient flow of fresh water across the membrane to maintain the accuracy and precision of the DO measurement. When taking DO measurements in a bucket or beaker, either employ a stirrer, or physically move the probe in a gentle motion. Moving the probe in a gentle motion should also be completed when measuring DO in situ down hole in a monitoring well.

5.4.4 ORP

ORP shall be measured using the procedures outlined above for measuring pH. Note that changes in temperature directly affect ORP values and ORP should be measured as soon as possible after the probe has stabilized.

5.4.5 Turbidity

In situ turbidity shall be measured using the procedures outlined above for measuring pH.

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If turbidity cannot be measured in situ, it can be measured with a probe in a bucket or beaker using the procedures outlined above for measuring temperature. Note that some turbidity measuring instruments do not use a probe, and a sample of the water is collected in a small vial that is inserted into the instrument which then measures the turbidity of the water.

5.4.6 Multi-Parameter Probe Use With A Flow-Through Cell

A multi-parameter probe and a flow-through cell are typically employed when undertaking low flow purging and sampling of groundwater. SOP-EDR023 describes the procedures to be followed when using a multi-parameter probe and a flow-through cell.

5.5 Additional Considerations for Ontario Regulation 153/04 Phase Two ESA Compliance

When completing a Phase Two Environmental Assessment (ESA) in accordance with Ontario Regulation 153/04, the following additional procedures must be undertaken:

- Thorough records of the calibration and calibration checks of the probes/instruments used for water quality parameter measurement must be kept, including any calibration sheets provided by the equipment supplier. The Quality Assurance/Quality Control section of the Phase Two ESA report requires a discussion of field equipment calibration, and equipment calibration records must be appended to the Phase Two ESA report; and
- If groundwater samples collected for a Phase Two ESA are not collected using low flow purging and sampling, which mandates the measurement of water quality parameters, water quality parameters must be measured (pH, temperature and specific conductance at a minimum) and the measurements included in the Phase Two ESA report. Ontario Regulation 153/04 does not provide specifics as to when or how these water quality parameter measurements are to be made but one set of measurements made at the conclusion of purging prior to sampling is the minimum requirement. These measurements can be made by filling a clean bucket or beaker with purge water and immersing the probes in the purge water.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

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7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

New Jersey Department of Environmental Protection, *Field Sampling Procedures Manual,* August 2005.

Commonwealth of Kentucky – Department of Environmental Protection, *Standard Operating Procedure – In Situ Water Quality Measurements and Meter Calibration,* January 1, 2009.

U.S Environmental Protection Agency – Science and Ecosystem Support Division, Athens, Georgia, *In Situ Water Quality Monitoring,* December 7, 2009.

U.S. Geological Survey, *National Field Manual for the Collection of Water-Quality Data: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 9, Chapters A1-A9,* Various dates.

9.0 APPENDICES

None.

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Template: Master SOP Template – February 2014

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SOP – EDR017 – REV006 – MONITORING WELL DEVELOPMENT

Title:	Monitoring Well Development
Practice:	EDR
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Author:	Paresh Patel and Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	November 23, 2010	N/A	PDP
001	June 15, 2013	Streamlined background section/Focused procedure on tasks that can be completed by Pinchin personnel/Provided step-by-step summary of field procedure	RLM
002	January 22, 2015	Incorporated procedures specific to Pinchin West into SOP	RLM
003	February 9, 2016	Revised overall procedure to include initial determination of well yield/Added reference to revised well development field forms/Provided guidance on assessing field parameter stabilization when developing wells where water or air were used during drilling	RLM
004	April 29, 2016	Updated Section 4.0	RLM
005	April 28, 2017	Removed references to Pinchin West	RLM
006	January 3, 2018	Modified Section 3.0 to allow well development to occur immediately after well installation under certain circumstances.	RLM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) describes the standard procedures for groundwater monitoring well development and provides a description of the equipment required and field methods.

All groundwater monitoring wells are to be developed following installation prior to groundwater sampling or the completion of hydraulic conductivity testing. In addition, previously installed groundwater monitoring wells that have not been purged in over one year should be redeveloped prior to additional sampling or hydraulic conductivity testing if there is evidence of sediment impacting the monitoring well (e.g., the depth to bottom of well measurement indicates sediment accumulation) or at the discretion of the Project Manager.

This SOP pertains to monitoring well development that can be undertaken by Pinchin personnel. Monitoring well development completed by drilling rigs is beyond the scope of this SOP.

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3.0 OVERVIEW

The main objective of groundwater monitoring well development is to ensure that groundwater sampled from a well is representative of the groundwater in the formation adjacent to the well and that hydraulic conductivity testing provides data representative of the hydraulic characteristics of the adjacent formation.

The specific goals of well development include the following:

- Rectifying the clogging or smearing of formation materials that may have occurred during drilling of the borehole;
- Retrieving lost drilling fluids;
- Improving well efficiency (i.e., the hydraulic connection between the sand pack and the formation);
- Restoring groundwater properties that may have been altered during the drilling process (e.g., volatilization of volatile parameters due to frictional heating during auger advancement or use of air rotary drilling methods); and
- Grading the filter pack to effectively trap fine particles that may otherwise interfere with water quality analysis.

Monitoring well development should not be completed until at least 24 hours have elapsed following monitoring well installation to permit enough time for the well seal to set up, unless both of the following conditions are met:

- The well seal is entirely above the water table; and
- Surface runoff (e.g., from heavy rainfall or snow melt) is not occurring at the well location at the time of development.

Any deviation from this procedure must be approved by the Project Manager before proceeding.

4.0 DISTRIBUTION

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5.0 PROCEDURE

5.1 Equipment and Supplies

- Inertial pump (e.g., Waterra tubing and foot valve);
- Surge block for use with an inertial pump (Optional);
- Submersible pump (including pump controller and power supply) (Optional);
- Disposable bailer (Optional);
- Graduated pail (to contain purge water and permit the volume of groundwater purged to be tracked);
- Pails or drums for purge water storage prior to disposal;
- Well keys (if wells are locked);
- Tools to open monitoring well (T-bar, socket set, Allen keys, etc.);
- Interface probe;
- Equipment cleaning supplies (see SOP-EDR009);
- Field parameter measurement equipment (see SOP-EDR016) (Optional);
- Disposable nitrile gloves; and
- Field forms.

Pinchin typically employs inertial pumps or bailers for well development because they can be dedicated to each well. However, the use of submersible pumps is a viable alternative for developing deep wells with high well volumes at the discretion of the Project Manager.

5.2 Procedures

The well development procedures employed will be determined by the hydraulic conductivity of the formation in which the groundwater monitoring well is installed. For this SOP, a high yield well is defined as a well that cannot be purged to dryness when pumping continuously at a rate of up to 2 litres per minute (L/min) and a low yield well is defined as a well that can be purged to dryness when pumping continuously at a rate of up to 2 L/min or less. This threshold represents a “normal” pumping rate when hand pumping with an inertial pump.

The initial stage of well development (Stage 1) will apply to all wells and will involve the removal of up to one well volume, followed by an evaluation of the well yield. The procedures followed for Stage 2 of well development will be contingent on whether the well is determined to be a low yield or high yield well.

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5.2.1 Well Development for Low and High Yield Wells - Stage 1

The initial procedure for developing a low yield or high yield monitoring well is as follows:

1. Decontaminate all non-dedicated monitoring and pumping equipment that will be used, including the interface probe and submersible pump (if used), in accordance with the procedures described in SOP-EDR009;
2. Review the well construction details provided in the borehole log, previous field notes or well construction summary table from a previous report. Determine the well depth, well stick up, screen length, depth to the top of the sand pack and diameter of the borehole annulus. If the well depth is unavailable, measure it with the interface probe;
3. Measure the initial water level (i.e., static water level) from the reference point on the well (which should be marked at the top of the well pipe) with an interface probe. If measurable free-phase product is present on the water table, record the depth to the top of the free-phase product and the depth to the free-phase product/water boundary (i.e., water level), and discuss this with the Project Manager before proceeding further;
4. Calculate the well volume. **Note that for the purpose of this SOP, there are two definitions of well volume depending on the province in which the project is being conducted.** For Ontario and Manitoba, the well volume is defined as the volume of water within the wetted length of the well pipe (well pipe volume) plus the volume of water within the wetted length of the sand pack (sand pack volume). For British Columbia, Alberta and Saskatchewan, the well volume is defined as the volume of water within the wetted length of the well pipe (well pipe volume) only.

   The volume of water in the well pipe is calculated as follows:

   Well Pipe Volume (litres) = h_w x π r_w^2 x 1,000 litres per cubic metre (L/m^3)

   Where π = 3.14

   h_w = the height of the water column in the monitoring well in metres (wetted length)

   r_w = the radius of the monitoring well in metres (i.e., half the interior diameter of the well)

   The volume of the sand pack in the monitoring well is calculated as follows:

   Sand Pack Volume (litres) = h_w x [(0.3 π r_b^2 x 1,000 L/m^3) – (0.3 π r_w^2 x 1,000 L/m^3)]

   Where 0.3 = the assumed porosity of the sand pack

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h_w = the height of the water column in the monitoring well in metres (wetted length)

π = 3.14

r_b = the radius of the borehole annulus in metres

r_w = the radius of the monitoring well in metres

For Ontario and Manitoba projects, the following table provides well volumes in litres/metre for typical well installations:

Borehole Annulus Diameter (Inches/Metres)	Well Interior Diameter (Inches)	Well Pipe Volume (Litres/Metre)*	Well Volume (Litres/Metre)*
4/0.1	1.25	0.8	2.9
	1.5	1.1	3.2
	2	2.0	3.8
6/0.15	1.25	0.8	5.9
	1.5	1.1	6.1
	2	2.0	6.7
8.25/0.21	1.5	1.1	11.2
	2	2.0	11.8
10.25/0.26	1.5	1.1	16.7
	2	2.0	17.3

* Litres to be removed per metre of standing water in the well (wetted length).

If the borehole annulus and well interior diameters match one of those listed above, to determine the volume of one well volume simply multiply the number in the last column of the table by the wetted length in the well. For example, if a 2-inch diameter well installed in a 8.25-inch diameter borehole has 2.2 metres of standing water, one well volume equals 26.0 litres (2.2 metres x 11.8 litres/metre).

Note that the above well volume calculations apply only to wells where the water level in the well is below the top of the sand pack. If the water level is above the top of the sand pack, then the well volume is the volume of water in the sand pack and well pipe within the sand pack interval, plus the volume of water in the well pipe (i.e., well pipe volume) above the top of the sand pack.

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For example, assume a 2-inch diameter well has been installed in a 8.25-inch diameter borehole to a depth of 6.0 metres below ground surface (mbgs), with a 3.05 metre long screen. The sand pack extends from 6.0 mbgs to 2.5 mbgs and the water level is at 1.85 mbgs. One well volume equals ([6.0 metres – 2.5 metres] x 11.8 litres/metre) + ([2.5 metres – 1.85 metres] x 2.0 litres/metre) or 42.6 litres.

For British Columbia, Alberta and Saskatchewan projects, the well volume is calculated using the conversion factor listed in the third column of the above table. For example, if there are 2.5 metres of standing water in a 1.5-inch diameter well, one well volume equals 2.75 litres (2.5 metres x 1.1 litres/metre);

5. Lower the pump into the well until the pump intake is approximately 0.3 metres above the bottom of the well. Remove half a well volume while pumping at a rate of approximately 1 to 2 L/min. Measure the depth to water after the half a well volume is removed. Record the approximate purge volume, pump intake depth and any pertinent visual/olfactory observations (e.g., sheen, odour, free-phase product, sediment content, clarity, colour, etc.); and
6. Move the pump intake upward to the middle of the water column (or middle of the screened interval if the static water level in the well is above the top of the screen). Remove half a well volume (for a cumulative total of 1 well volume) or purge until dry while pumping at a rate of approximately 1 to 2 L/min, whichever occurs first. Measure the depth to water after the half a well volume is removed unless dry. Record the approximate purge volume, pump intake depth and any pertinent visual/olfactory observations. Note that if suction is broken (indicating that drawdown to the pump intake depth has occurred), move the pump intake to the bottom of the well and continue purging.

After completing Step 6, review the water level data to assess whether the well is a low yield or high yield well. If the well is purged dry or close to dryness, or significant drawdown has occurred, then the well is a low yield well. If little or no drawdown has occurred then the well is a high yield well. Some judgement will be required by field personnel when classifying the well yield if moderate drawdown has occurred during removal of the first well volume.

5.2.2 Well Development for High Yield Wells - Stage 2

The procedure for the second stage of developing a high yield monitoring well is as follows:

1. Move the pump intake upward to near the top of the screened interval (or near the top of the water column if the water level is currently below the top of the screen). Remove half a well volume (for a cumulative total of 1.5 well volumes) while pumping at the maximum practical rate that is greater than 2 L/min. Record the approximate purge volume, pump

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intake depth and any pertinent visual/olfactory observations (e.g., sheen, odour, free-phase product, sediment content, clarity, colour, etc.);

2. Note that if the wetted length is short within a well (e.g., 1.5 metres or less), there will not be enough separation between pump intake depths to warrant pumping from three depths (i.e., near the bottom, middle and top of the water column). In this case, pumping from two depths (i.e., near the bottom and top of the water column) is sufficient;
3. Lower the pump intake until it is approximately 0.3 metres above the bottom of the well. Remove half a well volume (for a cumulative total of 2 well volumes) while pumping at the maximum practical rate that is greater than 2 L/min. Record the approximate purge volume, pump intake depth and any pertinent visual/olfactory observations;
4. Move the pump intake upward to the middle of the water column (or middle of the screened interval if the water level in the well is above the top of the screen). Remove half a well volume (for a cumulative total of 2.5 well volumes) while pumping at the maximum practical rate that is greater than 2 L/min. Record the approximate purge volume, pump intake depth and any pertinent visual/olfactory observations;
5. Move the pump intake upward to near the top of the screened interval (or near the top of the water column if the water level is currently below the top of the screen). Remove half a well volume (for a cumulative total of 3 well volumes) while pumping at the maximum practical rate that is greater than 2 L/min. Record the approximate purge volume, pump intake depth and any pertinent visual/olfactory observations;
6. If the purge water contains high sediment content after the removal of 3 well volumes, well development should continue by removing additional well volumes following the same procedure as above until the sediment content visibly decreases. If the purge water continues to have high sediment content after the removal of 2 additional well volumes (i.e., 5 well volumes in total), contact the Project Manager to discuss whether well development should continue. A cap of 10 well volumes removed is considered sufficient for high yield well development regardless of sediment content; and
7. Record the water level at the conclusion of well development.

Note that at the discretion of the Project Manager, when developing a monitoring well using an inertial pump, a surge block can be attached to the foot valve before completing Step 1 (i.e., the first time groundwater is pumped from near the top of the screened interval or water column) and then leaving it on the foot valve for the remainder of well development. A surge block is used to increase the turbulence created by pumping and enhance the removal of fine-grained material from the sand pack.

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Note that the use of a bailer to develop a high yield well with a wetted interval greater than 2 metres is not recommended given that the depth from which groundwater is removed is difficult to control. However, a bailer can be used as a substitute for a surge block by raising and lowering it through the screened interval for approximately 5 to 10 minutes before the start of Step 1.

5.2.3 Well Development for Low Yield Wells - Stage 2

The procedure for the second stage of developing a low yield monitoring well is as follows:

1. Position the pump intake at the bottom of the well and purge the well to dryness if it was not purged to dryness during completion of Stage 1 at the maximum practical rate that is greater than 2 L/min. Allow sufficient time for the well to recover to at least 90% of the initial static water level or allow the well to recover for a period of time designated by the Project Manager; and
2. Repeat Step 1 until the well has been purged to dryness a minimum of 3 times. An exception to this is that if recovery is slow, and especially if sediment content is low, repeat purging (i.e., purging the well to dryness more than once) may not be necessary and the need for additional purging is to be discussed with the Project Manager. If the purge water contains high sediment content after purging to dryness 3 times, well development should continue by purging the well to dryness until the sediment content visibly decreases. If the purge water continues to have high sediment content after purging the well to dryness 2 additional times (i.e., purging the well to dryness 5 times in total), contact the Project Manager to discuss whether well development should continue. A cap of purging a well to dryness 10 times is considered sufficient for low yield well development regardless of sediment content.

As per the procedure for high yield well development, a surge block can be attached to the foot valve to increase the effectiveness of the pumping action. If a surge block is used, pumping should commence at the top of the water column in the well (instead of near the bottom of the well as described above) with the pump intake progressively lowered as the water level in the well decreases.

Note that bailers can be used in lieu of an inertial pump for the development of a low yield well. The turbulence created in a well by the act of dropping a bailer into it and then removing it full of groundwater can be effective in removing fine-grained material from the sand pack. If a bailer is left in a well, it should be “hung” above the water table to facilitate future water level monitoring.

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5.2.4 Removal of Water Lost During Well Installation

When water has been used during well installation (e.g., for bedrock coring, to control heaving sands), the total volume of water required to be purged from a well during development will be equal to 3 times the estimated volume of water lost during drilling plus the volume of water that would normally be removed during well development.

For example, for a high yield well where 25 litres of water were lost during drilling and the well volume is 10 litres, the minimum amount of water to be purged during development is 105 litres (i.e., 3 times the volume of water lost during drilling [75 litres] plus a minimum of 3 well volumes [30 litres]).

For a low yield well, the well will need to be purged to dryness enough times to remove a volume equivalent to 3 times the volume of water lost during drilling plus the volume of water that would normally be removed during well development.

As an alternative to removing 3 times the volume of water lost during drilling, field parameter stabilization during well development can be used to assess whether sufficient water has been removed. For example, the conductivity of drill water (which is usually tap water) is typically much lower than groundwater, and conductivity measurements can act as a guide during development as to whether the water being removed is formation groundwater or drill water.

For assessing field parameter stability when developing a high yield well, field parameter measurements of pH, conductivity, temperature and oxidation-reduction potential are to be made after every half well volume is removed and stability is considered achieved if the field parameters are all within ±10% over 3 consecutive readings. Note that a minimum of 3 well volumes must be removed even if field parameter stabilization is achieved prior to the removal of 3 well volumes to comply with the minimum well purging requirements of this SOP (i.e., removal of a minimum of 3 well volumes from a high yield well).

For assessing field parameter stability when developing a low yield well, field parameter measurements of pH, conductivity, temperature and oxidation-reduction potential are to be made once each time a well is purged to dryness, approximately halfway through purging. For example, if based on the current water level it is estimated that 10 litres will be removed before a well is purged to dryness, the field parameters are to be measured after 5 litres have been removed. Stability is considered achieved if the field parameters are all within ±10% over 3 consecutive readings. After stabilization is achieved, continue to purge the well to dryness a final time at which point development is complete.

A second alternative would be to allow sufficient time for the drill water to dissipate into the formation. The appropriate amount of time will depend on the amount of water lost to the formation and the formation characteristics, but will be a minimum of one week. A Senior Project

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Manager or Senior Technical Reviewer will be responsible for determining the suitability of this approach and the required length of time. At the discretion of the Senior Project Manager or Senior Technical Reviewer, field parameter measurements may be made during pre-sampling purging to assess whether the drill water has dissipated by the time of sampling.

Note that it can be difficult to estimate the amount of water lost during drilling. If the driller's water tank is accessible, measure the water levels in the water tank before and after drilling the well and then estimate the volume of water used during drilling using the water tank dimensions and subtract this volume from the volume of water recovered at the end of drilling from this volume to estimate the volume of water lost. If this is not possible, ask the driller to estimate the approximate volume of water lost during drilling.

For some well installations, determining even an approximate volume of water lost during drilling is not possible. In this situation, field parameter stabilization should be used as a guide in deciding how much water to remove during well development.

5.2.5 Development of Monitoring Wells Installed Using Air Rotary Drilling Methods

When developing a monitoring well installed using an air rotary drilling procedure, field parameter stabilization must be used to assess whether sufficient water has been removed and the field parameters measured must include dissolved oxygen. This is particularly important when the contaminants of concern at a site include volatile organic compounds (VOCs) as the use of compressed air during the drilling process can result in sparging of VOCs from the groundwater, resulting in groundwater samples that are biased low with respect to VOC concentrations.

The well development procedure is the same as described in Section 5.2.4, except that the field parameters measured are to include pH, conductivity, temperature, oxidation-reduction potential and dissolved oxygen. The criterion for determining field parameter stabilization for dissolved oxygen is ±10% over 3 consecutive readings or 3 consecutive readings with concentrations less than 0.5 milligrams per litre.

5.2.6 Assessing Field Parameter Stabilization

When determining whether field parameter stabilization has occurred over 3 consecutive readings (except for dissolved oxygen when using the less than 0.5 milligrams per litre over 3 consecutive readings criterion), the following procedure is to be followed:

1. For each parameter, use the first of the 3 readings and calculate 10% of this reading; and
2. The range that the next 2 readings must be within is ± 10% of the first reading.

For example, if the temperature of the first of 3 consecutive readings is 10º C, the next 2 readings must fall between 9 and 11 º C for temperature to be considered stable.

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5.3 Well Development Record

Well development is to be documented through the completion in full of the following field forms located in the Pinchin Orchard:

- EDR-GW-Well Development-S1-Low/High Yield Well (completed for Stage 1 for both low and high yield wells);
- EDR-GW-Well Development-S2-Low Yield Well (completed for Stage 2 for low yield wells); and/or
- EDR-GW-Well Development-S2-High Yield Well (completed for Stage 2 for high yield wells).

Any deviations from this SOP along with the rationale for these deviations must be recorded on the EDR-GW-Well Development-S1-Low/High Yield Well form.

5.4 Additional Considerations for O. Reg. 153/04 Phase Two ESA Compliance

When developing a low yield well, the well must be purged to dryness a minimum of 3 times regardless of the recovery time unless reduced purging is authorized by the Qualified Person responsible for the Phase Two ESA.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

Association of Professional Geoscientists of Ontario, "*Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)",* April 2011.

9.0 APPENDICES

None.

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SOP – EDR019 – REV004 – SOIL SAMPLE LOGGING

Title:	Soil Sample Logging
Practice:	EDR
First Effective Date:	August 03, 2013
Version:	004
Version Date:	January 3, 2018
Author:	Francesco Gagliardi and Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	November 26, 2010	N/A	FG
001	October 31, 2013	Streamlined SOP to focus only on soil sample logging/Added O. Reg. 153/04 compliance section	RLM
002	April 29, 2016	Updated Section 4.0	RLM
003	April 28, 2017	Removed reference to Pinchin West	RLM
004	January 3, 2018	Modified percentages of minor constituents in Section 5.1.3/Clarified when geotechnical terms can be used for soil logging in Section 5.2	RLM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) presents the methods used to describe the physical characteristics of soil samples collected during site investigations.

The methods and equipment used for retrieving soil samples are provided in other SOPs (e.g., SOP-EDR007 – Borehole Drilling) and will not be repeated herein.

3.0 OVERVIEW

Not applicable.

4.0 DISTRIBUTION

This is an on-line document. Paper copies are valid only on the day they are printed. Refer to the author if you are in any doubt about the accuracy of this document.

This SOP will be distributed to all Pinchin staff and others as follows:

- Posted to the SOP section of the Environmental Due Diligence and Remediation (EDR) Practice Line on the Pinchin Orchard; and
- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

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5.0 PROCEDURE

5.1 General Procedures

For each soil sample collected during a site investigation, the following information is to be recorded in the field log book or field forms in the order presented below:

- Depth;
- Primary soil texture;
- Colour;
- Minor constituents*;
- Noticeable odours;
- Noticeable staining;
- Noticeable free-phase product/sheen*; and
- Moisture content.

*These constituents only need to be noted if they are actually present in the sample.

5.1.1 Primary Soil Texture

The primary soil texture should be determined using the attached flow chart as a guide to help classify the soil.

5.1.2 Colour

Describe the primary colour of the soil sample (e.g., brown, grey, black, green, white, yellow, red). The relative lightness or darkness of the primary colour can be described using the adjectives “light” or “dark” as appropriate. Soil that exhibits different shades or tints is to be described by using two colours (e.g., brown-grey). If the soil sample contains spots of a different colour, this is to be described as “mottling” (e.g., grey with green mottling).

5.1.3 Minor Constituents

Note the presence of minor constituents in the soil that are “natural” materials (e.g., gravel, cobbles, sand, oxidation, etc.) or “man-made” materials (e.g., asphalt, brick, concrete, coal or glass fragments, coal ash, etc.). Gravel comprises particles between 5 millimetres (mm) and 75 mm in diameter. Cobbles comprise particles greater than 75 mm in diameter (approximately the size of a man’s fist) and boulders are particles greater than 150 mm in diameter (approximately the size of man’s head).

When the percentage of the minor constituents in the soil is between approximately 1 and 10%, the adjective used to describe the relative amount of the minor constituent is “trace” (e.g., silty sand with trace brick fragments).

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When the percentage of minor constituents of soil is between approximately 10 and 20%, the adjective used to describe the relative amount of the minor constituent is “some” (e.g., silty sand with some concrete fragments).

When the percentage of the “natural” minor soil constituents is between approximately 20 and 35%, the minor soil type is described by adding a ‘y’ or ‘ey’ to the soil type (e.g., silty, sandy, clayey).

When the percentage of the “natural” minor soil constituents is also greater than 35%, the minor soil type is described by using “and” the soil type (e.g., sand and gravel, sand and silt).

When the percentage of the “man-made” minor soil constituents is between approximately 30 and 50%, describe the soil as per the normal procedure and add “with” the minor constituent type(s) (e.g., silty sand with coal ash and brick fragments).

5.1.4 Noticeable Odours

Field staff are not expected to directly smell soil samples to assess the presence/absence of odours.

If it is possible to identify the likely type of odour then this information should be recorded along with a comment on the severity of the odour (e.g., slight, strong, etc.). Identification of specific chemical compounds, such as petroleum hydrocarbons (PHCs) or solvents is acceptable; however, this identification should be referenced as “xxxx-like” (e.g., PHC-like, solvent-like, etc.). This principle also applies when describing staining and free-phase product.

If the odour cannot be readily identified, it should be described in the field notes as “unidentified odour”. If no noticeable odours are observed, this needs to be recorded in the field notes as “no odour”.

5.1.5 Noticeable Staining

Describe the colour and possible source of the staining (e.g., black PHC-like staining).

If no noticeable staining is observed, this needs to be recorded in the field notes as “no staining”.

5.1.6 Noticeable Free-Phase Product/Sheen

Describe the colour, odour, possible composition and relative viscosity (if sufficient product is present to assess) of the product (e.g., dark brown, viscous, motor oil-like product). Identification of the composition of the product is acceptable but needs to be described as PHC-like, motor oil-like. Alternatively, the product can be described as “resembling” a substance (e.g., “resembling motor oil”).

The presence of any observed iridescent sheen is to be recorded in the field notes. Note that the presence of an iridescent sheen by itself in the soil does not constitute the presence of free-phase product but may be an indicator that free-phase product is present within the vicinity of the borehole.

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5.1.7 Moisture Content

Describe the moisture content of the soil sample using one of the following three terms:

- Dry – no visible evidence of water and the soil is dry to the touch;
- Moist – visible evidence of water but the soil is relatively dry to the touch. Do not use the term "damp" to describe this type of soil; and
- Wet – visible evidence of water and the soil is wet to the touch. Free water is evident when sandy soil is squeezed. Do not use the term "saturated" to describe this type of soil.

5.1.8 Recording Soil Sample Descriptions in Field Notes

Recording the information in the field notes consistently in the above order will make it easier to prepare the borehole logs for the site investigation report.

Example soil sample descriptions are as follows:

- Sand, grey, trace gravel, PHC-like odours, free-phase PHC-like product, wet;
- Silty sand, brownish-grey, some gravel, trace asphalt and brick fragments, no odours or staining, moist; and
- Silty clay, brown, trace gravel, no odours or staining, moist to wet at 2.4 mbgs.

5.2 General Considerations

Where any physical properties change within a soil sample, the depth at which this transition takes place needs to be recorded. For example, for a soil sample collected from 1.8 to 2.4 metres below ground surface (mbgs), if the upper 0.3 metres has no odours but PHC-like odours are present below this depth then the field notes need to state "no odours from 1.8 to 2.1 mbgs, PHC-like odours from 2.1 to 2.4 mbgs".

Some soil samples will contain a thin seam of a different soil type, such as a sand seam within a silty clay. The depth interval of any such seam is to be recorded in the field notes, and the material comprising the seam should be described separately using the logging procedure outlined above.

Unless soil sampling is being completed as part of a combined environmental/geotechnical investigation and EDR staff logging the soil samples have the appropriate geotechnical training, avoid the use of geotechnical terms (e.g., stiff, dense, high plasticity, etc.) when logging soil samples. If any geotechnical terms are inadvertently included in the field notes by staff who have not had geotechnical training, they must not be included in the borehole logs provided in our report.

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5.3 Additional Considerations for Ontario Regulation 153/04 Phase Two ESA Compliance

None. Following this SOP will be sufficient to comply with the Ontario Regulation 153/04 requirements for Phase Two ESAs with respect to field logging. Risk assessments completed in accordance with Ontario Regulation 153/04 will typically require soil samples to be submitted to a laboratory for full soil texture analysis, but this is beyond the scope of field logging.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

American Society for Testing and Materials, *ASTM D2487-11 - Standard Practice for Classification of Soils for Engineering Purposes (United Soil Classification System)*, 2011.

Association of Professional Geoscientists of Ontario, *Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)*, April 2011.

9.0 APPENDICES

Appendix 1 Soil Texture by Feel Chart

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Template: Master SOP Template – February 2014

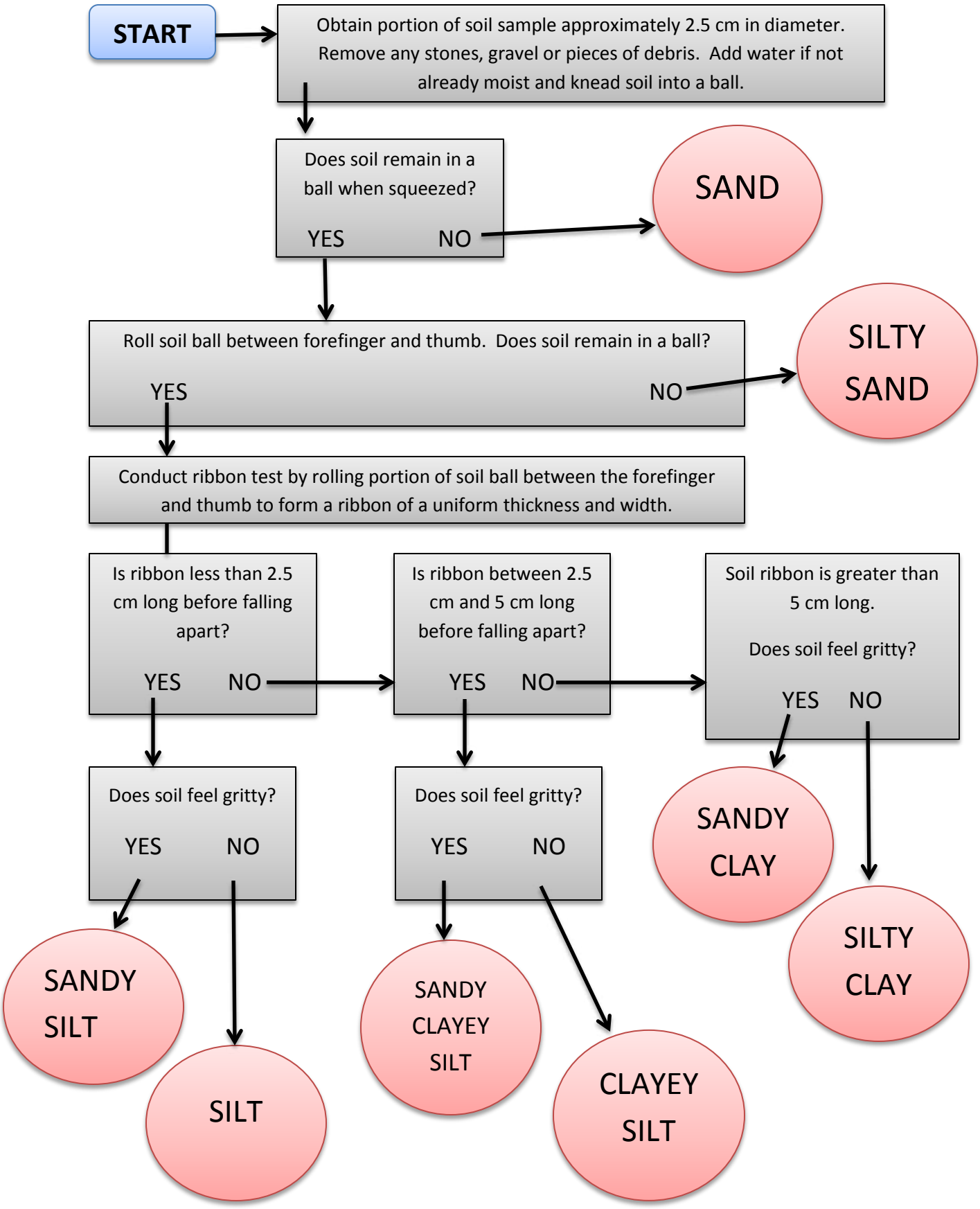
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APPENDIX I

Soil Texture by Feel Chart

Key to Soil Texture by Feel



SOP – EDR023 – REV006 – LOW FLOW GROUNDWATER SAMPLING

Title:	Low Flow Groundwater Sampling
Practice:	EDR
First Effective Date:	July 08, 2011
Version:	006
Version Date:	January 3, 2018
Author:	Paresh Patel and Robert MacKenzie
Authorized by:	Robert MacKenzie
Signature:	

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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	July 08, 2011	N/A	PDP
001	April 15, 2013	Streamlined background section/Provided step-by-step summary of field procedure/Added O. Reg. 153/04 compliance items	RLM
002	September 11, 2013	Added centrifugal submersible pump to list of pumps suitable for low flow sampling	RLM
003	January 26, 2015	Adjusted well development, sampling and field parameter measurement procedures to reflect Pinchin West practices.	RLM
004	April 29, 2016	Updated Section 4.0/Updated Section 5.3 to reflect current field documentation requirements and new document retention policy	RLM
005	April 28, 2017	Removed reference to Pinchin West/In Section 5.2, removed the requirement to complete a post-sampling water level and total purge volume, and added requirement to record pump intake depth at the time of sampling	RLM
006	January 3, 2018	Minor wording changes throughout	RLM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) describes the standard procedures for collecting groundwater samples from monitoring wells using low flow (low stress) sampling techniques and provides a description of the equipment required and field procedures.

Low flow sampling provides an alternative to the conventional groundwater purge and sampling technique using inertial pumps, submersible pumps and/or bailers, and emphasizes the need to minimize hydraulic stress at the well-aquifer interface by maintaining low water level drawdown, and by using low pumping rates during purging and sampling. Rather than removing a specified number of well volumes or purging a well to dryness a specified number of times prior to sampling, purging is completed at a low pumping rate until first, a stable water level is achieved, and second, field parameters such as pH, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), specific conductance and turbidity, which are monitored during purging, have stabilized indicating that representative formation groundwater is being

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purged. It is important that water level and field parameter stabilization are achieved prior to groundwater sampling as this indicates that fresh formation water is being purged and not stagnant groundwater from within the well itself.

Low flow groundwater sampling methods work best for moderate to high yield wells (i.e., wells installed in permeable soils such as sand, silty sand and some silts). For low yield wells (e.g., wells installed in silty clay), low flow groundwater sampling may not be suitable and alternate purging and sampling procedures will be required (see SOP-EDR008 for low yield well sampling procedures).

Conventional sampling can result in sediment entrainment in samples which can result in "positive bias" (i.e., reported concentrations greater than actual groundwater concentrations). This is particularly an issue with petroleum hydrocarbons (PHCs) in the F3 and F4 fraction ranges and polycyclic aromatic hydrocarbons (PAHs) and low flow sampling as per this SOP is strongly recommended when sampling for these parameters unless the hybrid sampling method described in SOP-EDR008 is employed.

This SOP is based primarily on the procedures described in the United States Environmental Protection Agency Region 1 document *"Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells"*, revised January 19, 2010.

3.0 OVERVIEW

The low flow sampling technique can be implemented for any size of monitoring well that can accommodate a positive lift pump or tubing assembly. Note that low flow sampling can be conducted for bedrock monitoring wells without well screens (i.e., with an open interval below the well casing) but for simplicity the screen interval or open interval will be referred to collectively in this SOP as the "screen interval".

Advantages of the low flow sampling technique over conventional groundwater sampling techniques include:

- Minimal disturbance at the sampling point, reducing the potential for sediment to be entrained during the purging process which can result in positive bias (elevated and unrepresentative concentrations) of parameters such as heavy fraction range PHCs and PAHs;
- Reduced operator variability resulting in greater operator control;
- Reduced purge water volumes resulting in reduced investigation derived waste disposal costs; and
- Improved sample consistency resulting in more representative (unbiased) and reproducible sample results.

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Disadvantages of the low flow sampling technique over conventional groundwater sampling techniques include:

- Purging and sampling typically requires more time than conventional sampling methods;
- Use of non-dedicated equipment (e.g., submersible pumps) that requires cleaning before initial use and between monitoring well locations; and
- Overall project costs for low flow groundwater sampling programs are typically higher than groundwater sampling programs completed using conventional sampling methods.

It is imperative that the monitoring wells to be sampled are properly developed prior to conducting low flow groundwater sampling. This often includes redevelopment of previously installed wells that have not been sampled for a prolonged period of time (i.e., more than one year). During well development or redevelopment, the hydraulic characteristics of each well should be assessed to provide guidance on the suitability of using the low flow groundwater sampling procedure. Well development procedures are provided in SOP-EDR017.

When groundwater conditions are known, sample the background monitoring wells (i.e., outside of the impacted groundwater area) and wells with low concentrations of contaminants of concern first prior to sampling wells with known impacts. Leave impacted wells to the last to minimize the potential for cross contamination.

In Ontario and Manitoba, or where otherwise specified by provincial guidance documents, a peristaltic pump is not to be used for the collection of groundwater samples for analysis of volatile parameters (i.e., volatile organic compounds (VOCs) and PHCs F1 Fraction). When sampling for volatile parameters using low flow groundwater sampling methods, a bladder pump or centrifugal pump (collectively referred to herein as “submersible pumps”) must be used. A “hybrid” groundwater purging and sampling procedure using a peristaltic pump to undertake low flow groundwater sampling for non-volatile parameters as described in this SOP followed by conventional purging and sampling methods for volatile parameters is an acceptable alternative to using a bladder pump or centrifugal pump.

Peristaltic pumps cannot be used where the suction lift (i.e., vertical distance between the pump and ground level) is more than 8.5 metres (28 feet).

It is very important to maintain consistency in applying low flow groundwater sampling procedures to purging and sampling for each monitoring well and for each sampling event. Any deviation from the field procedures described in this SOP can induce variability in the analytical results.

Our primary objective is to obtain unbiased groundwater samples whose analytical results are representative of actual groundwater quality at the property being investigated.

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4.0 DISTRIBUTION

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- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

5.0 PROCEDURE

5.1 Equipment and Supplies

5.1.1 Documents and Information Gathering

The following documents and information are required to complete low flow groundwater sampling:

- A copy of the proposal or work plan;
- Monitoring well construction details;
- A copy of this SOP;
- Field data from the last sampling event (if available);
- Operation, maintenance and calibration manuals for the multi-parameter water quality meter;
- A site-specific Health and Safety Plan (as per the project requirements); and
- Client or site representative's contact details.

5.1.2 Extraction Devices and Tubing

This SOP will not discuss in detail the various pumps and tubing options that are available for completing low flow groundwater sampling. The following section provides some general guidelines for the use of this equipment and it is recommended that the equipment supplier be consulted when selecting the appropriate pump and tubing, taking into account site-specific parameters (e.g., well depth, well diameter, site accessibility) and the parameters that will be sampled.

5.1.3 Extraction Devices

For purging and sampling using the low flow sampling procedure, submersible pumps (e.g., centrifugal, bladder) and peristaltic pumps are the most commonly used extraction devices. Regardless of the type of extraction device used, the low flow sampling procedure requires precise control over the flow rate during

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purging and sample collection. A battery-operated pump controller is required to operate submersible pumps and to control the extraction flow rate. Peristaltic pumps have built-in flow rate adjusters.

Submersible pumps with internal parts constructed of stainless-steel or Teflon are preferred. If the internal parts are constructed of other materials, adequate information must be provided by the equipment supplier to show that the substituted materials do not leach contaminants nor cause interference to the analytical procedures to be used. The use of any such substituted materials must be approved by the Project Manager prior to the field program.

If a bladder pump is selected for the collection of samples for volatile parameters analysis, it should be capable of delivering a water volume sufficient to fill a VOC sample vial in one pulse.

5.1.4 Tubing

Teflon, Teflon-lined polyethylene or polyethylene 1/4-inch interior diameter (ID) or 3/8-inch ID tubing is to be used to connect to the pump and the flow-through cell. In the winter time, the use of 3/8-inch ID tubing is recommended to avoid groundwater freezing in the tubing during severe cold weather conditions.

If the tubing is constructed of other materials (other than mentioned above), adequate information must be provided to show that the substitute materials do not leach contaminants nor cause interference with the analytical procedures. The use of any such substituted materials must be approved by the Project Manager prior to the field program.

Direct sunlight and hot ambient air temperatures may cause groundwater in the tubing to heat up and de-gas resulting in loss of volatile parameters. When sampling under these conditions, the length of the tubing between the top of the monitoring well and the flow-through cell should be kept as short as possible to minimize exposure to sunlight or ambient air and heating of the groundwater.

5.1.5 Groundwater Monitoring, Purging and Sampling

The following equipment is required to complete the low flow purging and sampling procedure described in this SOP:

- Well keys;
- Interface probe;
- Assorted tools (e.g., knife, screwdriver, etc.);
- Equipment cleaning reagents required as per SOP-EDR009 (e.g., distilled water, phosphate-free detergent, etc.);
- Multi-parameter water quality meter (including calibration solutions);
- Graduated cylinder, graduated measuring cup or graduated bucket;
- Stopwatch;

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- Flow-through cell;
- Peristaltic pump, centrifugal pump or bladder pump;
- Tubing;
- Pails or drums for storing purge water;
- Paper towels or wipes;
- Calculator;
- Field forms (see Section 5.3) and/or field notebook (hereafter the "field notes");
- Waterproof and permanent markers;
- Disposable gloves and appropriate personal protective equipment based on site-specific conditions;
- Cooler and ice packs;
- Sample bottles and labels. Several extra sample bottles of each type should be available in case of breakage or other problems; and
- Laboratory Chain of Custody forms.

The following equipment may be used during well sampling, in addition to the above:

- Disposable field filtration units/filters (if appropriate).

5.2 Low Flow Groundwater Sampling Procedures

The following is the summary of the procedures to be followed for low flow groundwater sampling:

1. Develop the monitoring wells to be sampled (if required) prior to sampling by removing between three and five well volumes or by purging them to dryness between one and three times. Further details regarding well development are provided in SOP-EDR017. Well development is to be completed for all newly installed wells prior to low flow sampling and may be required for previously installed monitoring wells that have not been sampled in more than one year. Ideally, well development should occur at least one day prior to low flow sampling. At the discretion of the Project Manager, low flow sampling can occur on the same day as the well is developed but the well must be allowed to fully recover to its original static level prior to the start of purging;
2. Decontaminate all non-dedicated monitoring and sampling equipment that will be used, including the interface probe, submersible pump (if used), water quality meter probes and flow-through cell in accordance with the procedures described in SOP-EDR009;

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3. Calibrate the water quality meter used for field parameter measurement in accordance with the manufacturer's specifications. Wherever possible, arrange for the equipment rental company to calibrate the water quality meter and provide a calibration sheet that contains information such as calibration date and calibration measurements for each parameter. If the water quality meter is to be used for more than a one day, a calibration check shall be performed using standard calibration solutions at the start of each day at a minimum. If the calibration check shows deviations from the standard values that exceed the ranges provided in bullet 10 below, the instrument shall be calibrated prior to further use. A calibration check should also be performed during the course of purging and sampling if the parameter measurements suggest that calibration drift has occurred. Document all calibration activities in the field notes, including date and time of calibration/calibration check, calibration solutions used, probe readings and make, model and serial number of the water quality meter. Note that if the water quality meter manufacturer recommends more frequent calibration/calibration checks than specified above, the manufacturer's recommendations are to be followed. See SOP-EDR016 for additional procedures regarding water quality meter calibration.

   Extra care must be taken when calibrating the multi-parameter probe to prevent cross-contamination. Specifically, following immersion of the probes into each calibration standard, all probes should be thoroughly rinsed in distilled or de-ionized water and the excess water shaken off or blotted dry with a lint-free wipe. Conductivity standards are much more sensitive to cross contamination/dilution than other standards. Besides being easily diluted, conductivity standards also affect other parameters (specifically DO), and the conductivity probe should always be the first probe calibrated. The following order for calibration of a multi-parameter probe is to be followed:

   - Specific Conductance;
   - pH;
   - DO;
   - Turbidity; and
   - All other parameters (there is no recommended order for these parameters).

4. Review the well construction details provided in the well development forms, borehole logs or well construction summary table from a previous report. Determine the well depth, well stick up, length of the screen interval, and depth to the top of the screen interval. If the well depth is unavailable, measure it with the interface probe;

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Measure the initial water level (i.e., static water level) from the reference point on the well (which should be marked at the top of the well casing) with an interface probe. If measurable free-phase product is present in the well, discuss this with the Project Manager before proceeding further. Using the known well depth, confirm that at least 0.6 metres of water is present within the well. If less than 0.6 metres of water is present, low flow sampling may not be appropriate and the Project Manager is to be contacted before proceeding further;

5. Following decontamination, slowly install the pump or tubing (for peristaltic pumps) to the appropriate depth within the well. Do not connect the pump discharge tubing to the flow-through cell at this time. If the water level in the well is above the top of the screen interval, the pump or tubing intake depth will be the mid-point of the screen interval. If the water level is below the top of the screen interval, the pump or tubing intake will be set at the mid-point of the wetted interval (i.e., the distance between the static water level and the bottom of the well) or 0.6 metres from the bottom of the well, whichever is a greater distance from the bottom of the well. Pumping from within 0.6 metres of the bottom of the well has a higher potential to entrain sediment from the bottom of the well and is not to be completed unless authorized by the Project Manager.

   The pump intake depth may vary from that described above at the discretion of the Project Manager depending on the specific purpose of the groundwater sampling program. For example, if chlorinated solvents that are denser than water are being assessed, it may be desirable to position the pump intake as close to the bottom of the well as possible, or if PHC-related parameters which are lighter than water are being assessed, it may be preferable to position the pump intake as close to the water table as possible. Pump intake depth should be confirmed with the Project Manager prior to the field program;

6. Turn on the pump and discharge groundwater into a purge bucket. Purge initially at a flow rate of approximately 250 millilitres/minute (mL/min). Increase or decrease the flow rate until the water level in the well reaches a steady state condition (i.e., a stabilized water level). The goal is to purge at as high a pumping rate as the well will sustain and still maintain a stabilized water level; however, purging rates should not exceed 500 mL/min during purging and sampling. Also, it is important that during the early phase of purging, emphasis should be put on minimizing pumping stress (i.e., rapid fluctuations in pumping rates).

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Whenever possible, purge at a pumping rate low enough to keep the total drawdown in the well to less than 10 centimetres although this may not be achievable for low to moderate yield wells. Once a steady state condition is achieved, the purge rate must be maintained constant and should not be changed. Determine the flow rate using a graduated bucket, graduated measuring cup or graduated cylinder and a stop watch. If the well is purged dry even after reducing the flow rate to the minimum practical purging rate of approximately 50 mL/min to 100 mL/min, then low flow sampling procedures will not work for the well and the sampling procedure described in SOP-EDR008 for sampling low yield wells is to be followed. During purging and sampling, it is important to keep the pump intake below the water level in the well at all times to avoid aeration of the groundwater;

7. If the visual appearance of the groundwater is highly turbid once a stabilized water level is achieved, continue to discharge purged water directly into the purge bucket until the groundwater clears, as highly turbid groundwater may foul the flow-through cell. Once the turbidity clears up, connect the flow-through cell to the pump discharge tubing. If the groundwater remains highly turbid after approximately 15 minutes of purging, contact the Project Manager to discuss whether sampling should occur. Further well development may be required to remove excess sediment from the monitoring well before sampling can proceed;

8. Confirm the volume of the flow-through cell excluding the volume of the water quality meter probes. If this information is not readily available, fill the cell with water with the water quality probes inserted and empty its contents into a graduated cylinder or measuring cup to determine the volume. After connecting the discharge tubing to the flow-through cell, continue purging until the flow-through cell is full and turn on the multi-parameter meter. Record the initial field parameter readings in the field notes. At a minimum, the field parameters that are to be monitored are pH, specific conductance, temperature, DO and ORP. The monitoring of turbidity is also a minimum requirement in Ontario and Manitoba. Field parameter readings are to be obtained at a frequency of no less than once every 5 minutes. Obtaining field parameter readings at a spacing of greater than 5 minutes apart may be required if the volume of the flow-through cell is large or pumping occurs at a low rate (e.g., 50 or 100 mL/min). For example, if the flow-through cell has a volume of 300 mL and the pumping rate is 50 mL/min, it will take 6 minutes for the volume of water equivalent to the flow-through cell volume to pass through the cell and field parameter readings should be taken 6 minutes apart. If the pumping rate for the same flow-through cell is 100 mL/min, although it will take only 3

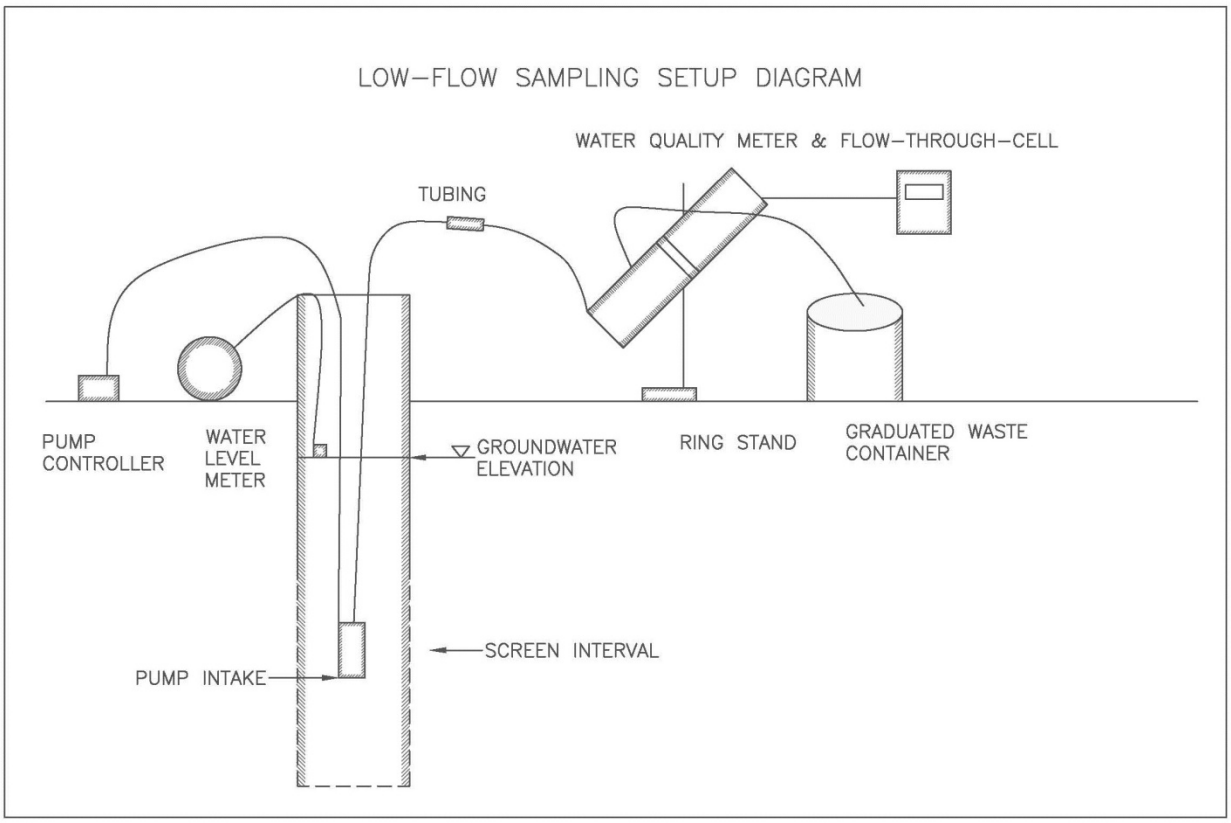
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minutes for the volume of water equivalent to the flow-through cell volume to pass through the cell, field parameter readings are to be taken at 5 minute intervals.

Figure 1 shows a typical low flow groundwater sampling set up using a submersible pump. The set up when using a peristaltic pump is similar except that the only part of the extraction system in the well is tubing that is connected to the peristaltic pump at the ground surface (i.e., there is no pump mechanism within the well), and a second section of tubing connects the discharge of the peristaltic pump to the flow-through cell.

Figure 1: Low Flow Sampling Set Up Diagram



Reference: USEPA Region I EQASOP-GW 001, July 30, 1996, Revised January 19, 2010.

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Air bubbles in the flow-through cell can result in inaccurate field parameter measurements, in particular for DO. If air bubbles appear in the flow-through cell, check that the discharge tubing is properly connected to the flow-through cell and check that the pump intake is located below the water table by confirming the pump intake depth and checking the water level in the well. If air bubbles persist in the flow-through cell, position the flow-through cell at a 45-degree angle with the ports facing upwards. This configuration should keep any gas bubbles entering the cell away from the multimeter probes and allow the air bubbles to exit the cell easily;

9. Regardless of the frequency of field parameter readings, purging is to be completed until field parameter stabilization is achieved, which occurs when the field parameter measurements for all of the parameters are within the following ranges for three consecutive sets of readings:

pH	±0.1 pH units
Specific Conductance	±3%
Temperature	±3%
DO	±10% for values greater than 0.5 milligrams per litres (mg/L), or three consecutive values less than 0.5 mg/L
ORP	±10 millivolts
Turbidity	±10% for values greater than 5 Nephelometric Turbidity Units (NTUs), or three consecutive values less than 5 NTU

10. Check the water level in the well during purging a minimum of once every 10 minutes to confirm that steady state conditions are being maintained. Although not mandatory, more frequent water level measurements can be made (e.g., at the time of each set of water quality parameters). Reduce the pumping rate if the water level measurements indicate that drawdown is occurring. Confirm the new pumping rate as per Step 7 and record it in the field notes;
11. Record the time of all water level and field parameter measurements in the field notes;
12. Should field parameter stabilization not occur within one hour of the start of purging, contact the Project Manager to discuss whether to continue purging to attempt to achieve field parameter stabilization or whether to proceed with groundwater sample collection. The Project Manager will consider the total volume of water purged to this point and may

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deem it suitable to collect the groundwater sample if, for example, three or more well volumes in total have been purged despite the lack of field parameter stability. Note that achieving stabilization of some parameters is more important with respect to certain contaminant types. For example, the stabilization of DO readings is important for volatile parameter sampling because fluctuations in DO concentrations may indicate that the groundwater is being aerated during the purging process which could result in volatile loss from the groundwater samples;

13. Following field parameter stabilization, disconnect the tubing from the flow-through cell and collect the groundwater samples by filling the appropriate laboratory-supplied sample containers directly from the discharge tubing. Note that it is important not to sample groundwater that has passed through the flow-through cell. If pumping at a moderate to high pumping (i.e., > 200 mL/min), the pumping rate should be reduced to prevent overfilling or the splashing of preservatives out of the sample containers. The order of sample collection should be most volatile parameters to least volatile parameters as follows:

- VOCs and PHCs F1 Fraction;
- PHCs F2-F4 Fraction;
- PAHs and Base/Neutral/Acid Extractables;
- Metals and Inorganics; and
- Polychlorinated Biphenyls and Organochlorine Pesticides.

Special Notes for Volatile Parameter Sampling

When collecting samples for volatile parameter analysis (i.e., VOCs and PHCs F1 Fraction), the tubing must be filled completely and must not contain air bubbles prior to sample collection. If this is observed, increase the pumping rate slightly prior to sample collection until the tubing is filled and/or there are no longer any air bubbles, and then collect the sample. When collecting the groundwater samples for volatile parameter analysis, the sample vials should be tilted to avoid agitation and bubbling to minimize the potential for volatilization.

Special Notes for Metals Sampling

Groundwater samples collected for metals analysis will require filtering prior to preservation if dissolved metals concentrations are sought. Depending on the type and diameter of the discharge tubing used, in-line filters can be used for field filtering. Disposable filtration kits (e.g., Nalgene 0.45 micron filters) can also be used for field filtering. When collecting samples in containers that are pre-charged with preservatives,

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care must be taken not to overfill the containers as some of the preservative may be lost which will result in the sample not being properly preserved. Also, sample containers for metals analysis typically have a fill line marked on the container and the container must not be filled to above this line as this will cause dilution of the preservative and the sample may not be properly preserved.

If field filtering cannot be completed, then the groundwater samples are to be collected in sample containers that do not contain preservatives, and the analytical laboratory is to be instructed to filter and preserve the samples immediately upon receipt. The procedure and necessary equipment required to filter and preserve metals samples using the low flow methods should be discussed with the Project Manager prior to mobilization to the field; and

14. Record the pump intake depth at the time of sample collection. Remove the pump and/or tubing from the well and decontaminate the sampling equipment.

5.3 Fieldwork Records

The purging and sampling of a monitoring well using the low flow groundwater sampling procedure described in this SOP are to be documented through the completion in full of the following field forms located in the Pinchin Orchard:

- EDR-GW-Low Flow Sampling; and
- EDR-GW-Water Quality Parameters.

Any deviations from this SOP along with the rationale for these deviations must be recorded on the forms.

Upon completion of the sampling event, the field notes must be submitted to the Project Manager for review. The field notes must also be scanned and a copy of the scan placed in the project folder on the server.

5.4 Additional Considerations for O. Reg. 153/04 Phase Two ESA Compliance

When completing a Phase Two Environmental Assessment (ESA) in accordance with Ontario Regulation 153/04, the following must be undertaken:

- Calibration checks must be made for the water quality meter used for field parameter measurements at the frequency specified in Step 3 of Section 5.2. Records of the calibration checks must be kept and appended to the Phase Two ESA report;

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- At least one field duplicate groundwater sample must be collected for every ten samples submitted for analysis. The frequency is one for one to 10 samples, two for 11 to 20 samples, etc. for all parameters analyzed. For example, even if only one groundwater sample is collected for PAHs analysis, a duplicate of this sample must be collected; and
- When sampling for VOCs, one trip blank sample must be submitted to the laboratory for VOCs analysis for each submission to the laboratory. In other words, if a groundwater sampling program lasts three days and samples are submitted to the laboratory at the end of each day, there must be a total of three trip blanks submitted with the samples (i.e., one per day of sampling). Note that analysis of trip blank samples for other volatile parameters (e.g., PHCs (F1 Fraction)) is not mandatory but can be completed at the discretion of the Qualified Person.

In addition, low flow groundwater sampling using a bladder pump or centrifugal pump should be completed whenever well yields are high enough to permit it for all Phase Two ESAs undertaken to support the filing of a Record of Site Condition. This will minimize potential issues the Ministry of the Environment and Climate Change may have regarding the representativeness of the groundwater analytical data.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

U.S. Environmental Protection Agency Region I, *Low Stress ('low flow') Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells,* EQASOP-GW 001, July 30, 1996, Revised January 19, 2010.

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9.0 APPENDICES

None.

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SOP – EDR025 – REV004 – QA/QC SAMPLING

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First Effective Date:	January 17, 2014
Version:	004
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Author:	Robert MacKenzie
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1.0 VERSION HISTORY

Version	Date	Summary of Changes	Author
Original	January 17, 2014	N/A	RLM
001	June 26, 2014	Amended blind duplicate sampling requirements	RLM
002	April 29, 2016	Updated Section 4.0/Amended O.Reg. 153/04 trip blank requirements	RLM
003	April 28, 2017	Removed reference to Pinchin West	RLM
004	January 3, 2018	In Section 5.2.6, clarified order of regular investigative sample and duplicate sample collection	RLM

2.0 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) describes the standard procedures for collecting soil, water and sediment samples for quality assurance/quality control (QA/QC) purposes.

A QA/QC program is essentially a management system that ensures that quality standards are met within a stated level of confidence. The QC component of the program comprises daily activities in the field and laboratory that are used to control the quality of both the samples collected and the sample analytical data. The QA component of the program is made up of measures used to determine whether the QC activities are effective.

When completing a site investigation, one of our primary goals is to obtain analytical data that are representative of actual soil, water and/or sediment conditions at the site. The completion of a QA/QC program, consisting of the collection and analysis of various QA/QC samples, provides information for use in evaluating the accuracy of the analytical data used to assess the environmental quality of the site.

The type and number of samples comprising the QA/QC program will be determined by the Project Manager on a site-by-site basis, but will typically include at a minimum a trip blank when collecting water samples for volatile parameter analysis and duplicate soil, water or sediment samples. Other types of QA/QC samples may be collected (e.g., equipment or field blanks) to meet project-specific requirements at the discretion of the Project Manager or to meet regulatory requirements.

The QA/QC sampling requirements and procedures for indoor air, soil vapour and sorbent tube samples are described in SOP-EDR012, SOP-EDR018 and SOP-EDR027, respectively.

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3.0 OVERVIEW

The types of samples collected for the QA/QC program during site investigations may include the following:

- Trip blanks;
- Field blanks;
- Equipment blanks; and
- Field duplicates.

Trip blanks are used to assess whether ambient air conditions may have resulted in positive bias of water samples collected for volatile parameter analysis during transportation of the sample containers to and from a project site. Note that the term “positive bias” means that reported sample concentrations are greater than actual in situ sample concentrations due to some form of “cross-contamination”.

Field blanks are collected to assess whether ambient air conditions may have resulted in positive bias of samples collected at a project site for volatile parameter analysis at the time of sampling.

Equipment blanks are collected to assess the efficiency of non-dedicated monitoring/sampling equipment cleaning procedures.

Duplicate samples are collected to assess whether field sampling and laboratory analytical methods are suitable and reproducible.

The analytical results of the QA/QC samples are reviewed by the Project Manager to assess whether any data quality issues are evident which may affect the interpretation of the soil, water and/or sediment sample analytical data.

4.0 DISTRIBUTION

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This SOP will be distributed to all Pinchin staff and others as follows:

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- Distributed to senior staff at Le Groupe Gesfor Poirier and Pinchin LeBlanc for distribution as appropriate.

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5.0 PROCEDURE

5.1 Equipment and Supplies

The equipment/supplies required for QA/QC sample collection are the same as that used for regular investigative sampling, except for the following:

- Volatile organic compound (VOC)-free distilled water supplied by the analytical laboratory for use in the collection of field blanks and/or equipment blanks;
- Additional sample jars supplied by the analytical laboratory for the collection of field blanks, equipment blanks and field duplicates; and
- Trip blanks supplied by the analytical laboratory.

5.2 QA/QC Sampling Procedures

5.2.1 General Procedures for QA/QC Blank Sampling

The analytical laboratory that will be completing the analysis of the regular investigative samples and QA/QC samples for a project must supply the water used to collect field blanks and equipment blanks. Water provided by another analytical laboratory or store-bought distilled water must not be used.

5.2.2 Trip Blanks

A trip blank is a set of VOC sample vials filled by the analytical laboratory with VOC-free distilled water and shipped with the sample containers. A trip blank is to be stored with the sample containers provided by the analytical laboratory during travel to the project site, while on the project site, and during travel from the project site back to the analytical laboratory. The sample containers comprising a trip blank are not to be opened in the field.

For some projects, submissions of volatile parameter samples to the analytical laboratory over several days will be required. In this case, a trip blank sample should accompany each submission to the laboratory. If this situation is anticipated, the Project Manager must request that the analytical laboratory provide sufficient trip blanks so that a trip blank can accompany the submission of each set of samples to the laboratory.

Trip blanks are to be analyzed for the same volatile parameters (i.e., VOCs and/or petroleum hydrocarbons (PHCs) (F1 fraction)) as the regular investigative samples. For example, if the groundwater sampling program includes analysis of VOCs and PHCs (F1-F4 fractions), then the trip blank(s) require analysis of VOCs and PHCs (F1 fraction). If the groundwater sampling program only includes VOC analysis, then the trip blank(s) require analysis of VOCs only.

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Unless specified by the Project Manager, trip blanks are not required for soil and sediment sampling, or for water sampling involving only non-volatile parameters. At the discretion of the Project Manager and to meet project-specific requirements, trip blanks for non-volatile parameters can be prepared and analyzed using the same principles as for volatile parameter trip blanks.

5.2.3 Field Blanks

A field blank is a set of VOC sample vials filled during a sampling event at a project site with VOC-free distilled water supplied by the analytical laboratory and submitted for analysis of volatile parameters (i.e., VOCs and/or PHCs (F1 fraction)).

Field blanks are to be collected at a sample location considered “worst case” with respect to ambient air conditions (e.g., adjacent to and downwind of the pump island of an active retail fuel outlet, inside an active on-the-premises dry cleaner, etc.). At project sites where there is no obvious “worst case” ambient air location, the field blank can be collected at a sampling location picked randomly. The field blank collection location and rationale for selecting it must be documented in the field notes.

If a groundwater sampling event at a project site occurs over more than one day, a field blank is to be collected for each day of sampling.

Some project sites may have an isolated area where the ambient air conditions are significantly poorer than the remainder of the site and a field blank collected from this area may not be representative of conditions elsewhere on the site. In this case, at the discretion of the Project Manager, the collection of two field blanks may be appropriate, with one field blank collected from the poor ambient air area and one field blank collected from a location outside of this area.

Unless specified by the Project Manager, field blanks are not required for soil and sediment sampling, or for water sampling involving only non-volatile parameters. At the discretion of the Project Manager and to meet project-specific requirements, field blanks for non-volatile parameters can be collected and analyzed using the same principles as for volatile parameter field blanks.

5.2.4 Equipment Blanks

An equipment blank is collected by pouring VOC-free distilled water supplied by the analytical laboratory either over or through non-dedicated sampling/monitoring equipment that has been cleaned following sampling/monitoring using the procedures outlined in SOP-EDR009. The resulting rinsate is then captured in sample containers appropriate for the intended analysis. Note that the surface over which the distilled water is poured must be the surface from which samples are collected from or that is in contact with the medium being monitored. For example, if an equipment blank is being collected from a split-spoon sampler, the distilled water must be poured through the interior of the sampler, and not the exterior of the sampler.

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The Project Manager will be responsible for determining the sampling/monitoring equipment from which equipment blanks will be obtained, the number of equipment blanks and the parameters to be analyzed. Regarding the latter, the parameters analyzed for equipment blanks are typically the parameters of concern for a given project site.

5.2.5 Evaluation of Blank Sample Results

The Project Manager will evaluate the results of the blank sample analysis to assess whether these results show that bias may have been introduced to investigative samples collected during the field sampling activities. Judgement by the Project Manager will be required to assess whether the blank sample results have any effect on the interpretation of the investigative sample results. This is assessed on a case-by-case basis, but the following general principles can be applied:

- If all soil, groundwater and/or sediment samples collected for a site investigation meet the applicable environmental standards/criteria, the presence of detectable or elevated parameter concentrations in the blanks has no effect on the interpretation of the investigative sample results;
- If parameters have detectable or elevated concentrations in the blank samples but none of these parameters are present in the regular investigative samples at concentrations exceeding the applicable environmental standards/criteria, the blank sample results have no effect on the interpretation of the investigative sample results;
- If parameters have detectable or elevated parameter concentrations in the blank samples and one or more of these parameters are present in the regular investigative samples at concentrations exceeding the applicable environmental standards/criteria, then positive bias of the regular investigative samples may have occurred. The Project Manager will need to assess a number of variables, including the relative parameter concentrations in the blank and regular investigative samples, to determine whether the regular investigative sample data are considered representative and usable for assessing the environmental quality of the site. If the regular investigative sample data are questionable, then resampling may be required; and
- If the regular investigative samples have exceedances of the applicable environmental standards/criteria and the blank samples have non-detectable parameter concentrations, the blank sample results have no effect on the interpretation of the investigative sample results.

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5.2.6 General Procedures for QA/QC Duplicate Sampling

Whenever possible, duplicate samples are to be collected from "worst case" sample locations. The reason for this is that Relative Percent Differences (RPDs) are calculated using the analytical results of the duplicate and regular investigative samples to evaluate the suitability and reproducibility of field sampling and laboratory analytical methods. However, RPDs for a given parameter can only be calculated if there are detectable concentrations in both samples, and "worst case" sample locations are the most likely to have detectable levels of parameters of concern. The calculation and evaluation of RPDs is discussed at the end of this section.

When filling sample containers, the order of collection is to fill the sample container for a particular parameter or parameters for the regular investigative sample first and then fill the sample container for the same parameter or parameters for the duplicate sample second. For example, if groundwater was being sampled for PAHs and metals and a duplicate sample was required, the order of filling the sample containers would regular investigative sample for PAHs, duplicate sample for PAHs, regular investigative sample for metals and duplicate sample for metals.

5.2.7 Field Duplicate Samples – Soil/Sediment

Soils/sediments are frequently heterogeneous because they are typically deposited in horizontal layers over time, causing both small scale and large scale grain size variations that can often result in significant variations in contaminant concentrations between layers. Because of this, it is important that duplicate soil/sediment samples be collected from the same vertical depths as the regular investigative samples in sample cores or at discrete sampling locations (e.g., grab samples).

When collecting a duplicate soil/sediment sample from a sampling device that provides a soil core (e.g., dual-tube sampler, split-spoon sampler), the soil core is to be split in half vertically (i.e., longitudinally). A portion of one half of the core is used for the regular investigative sample and a portion of the other half of the core is used for the duplicate sample. The portion of each core placed in sample jars for analysis must be obtained from the same depth interval within the cores.

When collecting a duplicate soil/sediment sample from a grab sample (e.g., excavation floor or sidewall), the field duplicate sample must be collected as close as possible to the regular investigative sample location at the sample depth and within the same soil layer.

There are no special procedures for collecting field duplicates of composite soil/sediment samples given that the soil/sediment is homogenized during the composite sample collection procedure.

A field duplicate soil/sediment sample must be collected at the same time as the regular investigative sample. Retroactively splitting a soil/sediment sample to obtain a field duplicate sample is not permitted.

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5.2.8 Field Duplicate Samples – Surface Water/Potable Water/Groundwater

There are no special procedures for collecting surface water/potable water/groundwater field duplicate samples with the following exceptions:

- When collecting a duplicate water sample for metals analysis and field filtering is required, a new filter is to be used to collect the duplicate sample unless the groundwater has a low sediment content; and
- When collecting a duplicate surface water sample, the sample containers for the same parameter(s) should be immersed in the surface water body at the same location and at the same time whenever possible.

5.2.9 Duplicate Sample Labelling

The duplicate sample should have the term "DUP" in the sample identifier to distinguish it as a duplicate sample.

5.2.10 Evaluation of Duplicate Sample Results

Duplicate sample results are evaluated by calculating RPDs using the following equation:

$$RPD = \frac{\text{Absolute Value (Original Concentration – Duplicate Concentration)}}{\text{(Original Concentration + Duplicate Concentration)/2}} \times 100\%$$

RPDs are not calculated unless the parameter concentrations in both the regular investigative sample and duplicate sample are detectable concentrations above the corresponding practical quantitation limit (PQL) for the parameter, which is equal to five times the lowest laboratory reportable detection limit (RDL).

For example, if the RDL for a parameter is 0.1 parts per million (ppm), and the concentration in the regular investigative sample is 0.4 ppm and the concentration in the duplicate sample is 0.6 ppm, the RPD cannot be calculated because the concentration in the regular investigative sample (0.4 ppm) is less than the PQL of 0.5 ppm (5 times the RDL of 0.1 ppm).

Also, if the regular investigative sample concentration is 2 ppm and the duplicate sample concentration is <1 ppm, then the RPD cannot be calculated regardless of the PQL since detectable concentrations were not reported for both samples.

Calculated RPDs for the regular investigative and field duplicate samples are compared to established performance standards to evaluate the suitability and reproducibility of field sampling and laboratory analytical methods. In Ontario, the Ontario Ministry of the Environment and Climate Change (formerly the Ontario Ministry of the Environment) provides duplicate sample performance standards in the document *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the*

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Environmental Protection Act, dated March 9, 2004, amended as of July 1, 2011. Although these performance standards only strictly apply to laboratory duplicate samples, they are considered suitable for comparison to field duplicate samples. Other provinces provide their own similar guidance.

When calculated RPDs exceed the performance standards, the Project Manager will evaluate whether these results have any effect on the interpretation of the investigative sample results. This is judged on a case-by-case basis, but in many situations RPD values above the performance standards can be attributed to small scale heterogeneity inherent in soil samples or variations in the quantity of sediment in groundwater or surface water samples, and are not indicative of poor field sampling or laboratory procedures. The results of internal laboratory QA/QC sampling may provide additional information as to the precision of the data. Furthermore, if all soil, water and/or sediment samples collected for a site investigation meet the applicable environmental standards/criteria, the apparent lack of precision shown by elevated RPD values should not affect the interpretation of the investigative sample results.

Sometimes a regular investigative sample will meet the applicable environmental standards/criteria and its corresponding duplicate sample will fail the applicable environmental standards/criteria (or vice versa). In Ontario, it is permitted to average the parameter concentrations of two samples provided they are collected at the same time and from the same sample location and depth. The resulting average parameter concentrations are then compared with the applicable standards to determine whether the sample meets or fails the standards. This approach is not acceptable in all jurisdictions. In situations where averaging is not acceptable to the regulatory agency, the “worst case” sample result is to be used in assessing the environmental condition of the project site.

5.3 Fieldwork Records

The field notes must include the following information with respect to QA/QC samples:

- The date and time of sampling for all blank/duplicate samples;
- The sample location for field blanks and the rationale for selecting the field blank locations;
- The type of equipment from which a rinsate was collected for equipment blanks and the parameters to be analyzed; and
- The corresponding regular investigative sample location/sample interval for duplicate samples and the parameters to be analyzed.

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5.4 Additional Considerations for Ontario Regulation 153/04 Phase Two ESA Compliance

When completing a Phase Two ESA in accordance with Ontario Regulation 153/04, the QA/QC sampling program must consist of the following as a minimum:

- At least one field duplicate soil, sediment or groundwater sample must be collected for every ten samples submitted for analysis. The frequency is one duplicate sample for one to 10 regular investigative samples, two duplicate samples for 11 to 20 samples, etc. for all parameters analyzed. For example, even if only one groundwater sample is collected for PAHs analysis, a duplicate of this sample must be collected.

When sampling for VOCs, one trip blank sample must be submitted to the laboratory for VOCs analysis for each submission to the laboratory. In other words, if a groundwater sampling program lasts three days and samples are submitted to the laboratory at the end of each day, there must be a total of three trip blanks submitted with the samples (i.e., one per day of sampling). Note that analysis of trip blank samples for other volatile parameters (e.g., PHCs (F1 Fraction)) is not mandatory but can be completed at the discretion of the Qualified Person.

6.0 TRAINING

The Practice Leader is responsible for identifying the training needs of EDR staff and ensuring that staff are trained and competent before undertaking work assignments.

All trained personnel are responsible for identifying coaching or re-training needs (if they are uncomfortable with work assignments that have been assigned).

The careful application of *Health & Safety Training* by each employee is an integral part of all activities and is assumed as part of this SOP.

7.0 MAINTENANCE OF SOP

1 Year.

8.0 REFERENCES

Association of Professional Geoscientists of Ontario, *Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended),* April 2011.

Ontario Ministry of the Environment and Climate Change, *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act*, March 9, 2004, as amended as of July 1, 2011.

Water, Air and Climate Change Branch, Ministry of Water, Land and Air Protection, Province of British Columbia, *British Columbia Field Sampling Manual*, 2003.

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9.0 APPENDICES

None.

I:\2018 SOP Updates\SOP - EDR025 - REV004 - QA QC Sampling.docx

Template: Master SOP Template – February 2014

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APPENDIX C

Borehole Logs

Log of Borehole: BH201

Project #: 267991.007 ***Logged By:*** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	↓ No Monitoring Well Installed				
		Asphalt ~ 50 mm						
1		***Fill*** Brown sand and gravel, some shale fragments, damp, no staining or odours			45	SS1	0/0	PHCs, BTEX, PAHs, Metals, EC, SAR
2								
3 / 1						SS2	0/0	
4			1.22					
		Silty Clay Grey silty clay, some gravel, damp, no odours or staining	1.52					
5				↑				
6		End of Borehole No Refusal						
7 / 2								
8								
9								
10 / 3								
11								
12								
13 / 4								
14								
15								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH202

Project #: 267991.007 ***Logged By:*** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	↓ No Monitoring Well Installed				
		Asphalt ~ 50 mm						
1		***Fill*** Brown sand and gravel, with brick, damp, no staining or odours			30	SS1	0/1.0	PHCs, BTEX, PAHs, Metals, EC, SAR
2								
3 / 1			1.07			SS2	0/0	
4		***Silty Clay*** Grey silty clay, browning, damp, no odours or staining						
5			1.52	↑				
6 / 2		End of Borehole No Refusal						
7								
8								
9								
10 / 3								
11								
12								
13 / 4								
14								
15								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH203

Project #: 267991.007 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	No Monitoring Well Installed				
		Asphalt ~ 50 mm			40	SS1	0/0	PHCs, BTEX, PAHs, Metals, EC, SAR
		Fill Brown sand and gravel, damp, no staining or odours	0.91					
		Silty Clay Grey silty clay, damp, no odours or staining				SS2	0/0	
			1.52					
		End of Borehole No Refusal						

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH204

Project #: 267991.007 ***Logged By:*** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	No Monitoring Well Installed				
		Asphalt ~ 50 mm			50	SS1	0/1	PHCs, BTEX, PAHs, Metals, EC, SAR
		Fill Brown/Grey sand and gravel, damp, no staining or odours	0.76					
3 / 1		***Silty Clay*** Brown silty clay, damp, no odours or staining	1.52			SS2	0/0	
5		End of Borehole No Refusal						
10 / 3								
15 / 4								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH205

Project #: 267991.007 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~ 50 mm		No Monitoring Well Installed	90	SS1	0/0	PHCs, BTEX, PAHs, Metals, EC, SAR
1 / 2 / 3 / 1		***Fill*** Brown sand and gravel, damp, no staining or odours	1.22			SS2	0/0	
4		***Silty Clay*** Brown/Grey silty clay, damp, no odours or staining			75			
5 / 6 / 2			1.83			SS3	0/0	
7 / 8 / 9 / 10 / 3		End of Borehole No Refusal						
11 / 12 / 13 / 4 / 14 / 15								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH206

Project #: 267991.007 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~ 50 mm		No Monitoring Well Installed	20	SS1	20/0	PHCs, BTEX, PAHs, PCBs, Metals
1 / 2		***Fill*** Brown sand and gravel, damp, with shingles and dark black staining until 1.22m, no odours				SS2	20/0	
3 / 1			1.22		80			
4		***Silty Clay*** Brown/Grey silty clay, damp, no odours or staining				SS3	10/0	
5 / 6			1.83					
2 / 7		End of Borehole No Refusal						
8 / 9 / 3 / 10								
11 / 12 / 13 / 4								
14 / 15								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH207

Project #: 267991.007 ***Logged By:*** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~ 50 mm						
1		***Fill*** Brown/Grey sand and gravel, damp, no staining or odours	0.61	No Monitoring Well Installed	60	SS1	0/0	PHCs, PH, BTEX, PAHs, Metals, EC, SAR
2		***Fill*** Brown/Grey sand and gravel, with wood and plastic, no odours or staining	1.22		75	SS2	20/0	
1 / 3		***Silty Clay*** Grey silty clay, wet, organic like odours, no staining	1.83			SS3	40/0	
4 / 2		End of Borehole No Refusal						
5								
6 / 3								
7								
8								
9								
10 / 4								
11								
12								
13								
14								
15								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH209

Project #: 267991.007 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	No Monitoring Well Installed				
		Asphalt ~ 50 mm			60	SS1	0/0	PHCs, BTEX, PAHs, Metals, EC, SAR, PH
		Fill Brown sand and gravel, damp, no staining or odours	0.76					
		Silty Clay Dark grey silty clay with organic materials, wet, organic like odours, no staining			100	SS2	20/0	
						SS3	60/0	PHCs, VOCs, PAHs, ABNs, Chlorophenols
			1.83					
		End of Borehole No Refusal						

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH213

Project #: 267991.007 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~ 50 mm						
1		**Sand and Gravel** Dark grey sand and gravel trace silt, moist, no odour or staining				SS1	0/1	
2			0.76		60			
3 / 1		**Silty Clay** Grey silty clay, moist, organic like odours, no staining				SS2	0/0	
4			1.52					
5		**Silty Clay** Brown silty clay, moist, no odour or staining				SS3	0/0	
6								
7 / 2			2.29		100			
8		Wet				SS4	0/1	PHCs, PAHs, VOCs, pH
9								
10 / 3			3.05					
11		End of Borehole No Refusal						
12								
13 / 4								
14								
15								

No Monitoring Well Installed

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: MW208

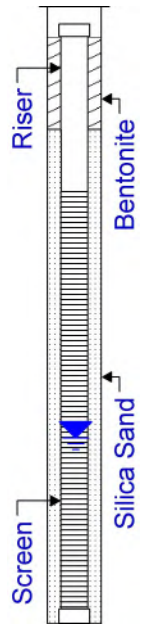
Project #: 267991.007 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
0		***Asphalt*** ~ 50 mm			40	SS1	0/1	PHCs, BTEX, PAHs, Metals, EC, SAR
1 / 1		***Fill*** Dark Grey sand and gravel, moist, some slag, no staining or odours	0.76			SS2	0/1	
2 / 2		***Silty Clay*** Dark Grey silty clay, moist, organic like odours, no staining			100	SS3	0/0	
3 / 3		***Clay and Silt*** Grey clayey silt, wet, no odours or staining	2.29			SS4	0/0	PHCs, PAHs, VOCs, ABNS, Chlorophenols
4 / 4		End of Borehole No Refusal	3.05	Groundwater= 2.13 mbgs. on May 17,2021				
5 / 5								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 3.8 cm

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: MW210

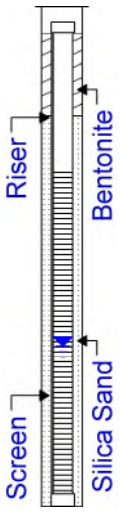
Project #: 267991.007 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 14, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Concrete ~ 150 mm	0.15		10	SS1	0/2	
3 / 1		***Fill*** Brownish black sand, trace gravel, moist, no staining, organic-like odours				SS2	80/1	
		Very wet	1.22		100	SS3	100/1	PHCs, VOCs, PAHs, ABNs, Chlorophenols, Dup-1
6 / 2		***Silty Clay*** Grey silty clay, wet, no staining, organic-like odours	1.83			SS4	0/0	
9 / 3		***Clayey Silt*** Grey clayey silt, very wet, no staining or odours	2.44		100	SS5	0/0	
						SS6	0/0	
12 / 4		End of Borehole No Refusal	3.66	Groundwater level = 1.06 mbgs, as measured on May 18, 2021.				
15 / 5								
18 / 6								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 3.8 cm

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: 62.97

Top of Casing Elevation: 62.89

Sheet: 1 of 1

Log of Borehole: MW211

Project #: 267991.007 **Logged By:** MK

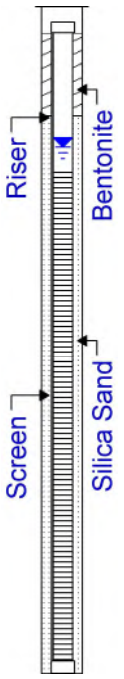
Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 14, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Concrete ~ 150 mm	0.15		60	SS1	0/0	
1 / 0		***Silty Clay*** Grey silty clay, moist, no odours or staining				SS2	0/1	
4 / 1			1.22					
		Clayey Silt Grey clayey silt, very wet, no staining or odours			100	SS3	0/1	PHCs, VOCs, PAHs, ABNs, Chlorophenols
7 / 2						SS4	0/1	
			2.44					
		Very wet			100	SS5	0/1	
10 / 3						SS6	0/1	
12 / 4			3.66					
		End of Borehole No Refusal		Groundwater level = 0.77 mbgs, as measured on May 14, 2021.				
20 / 6								



Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 3.8 cm

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: 63.02

Top of Casing Elevation: 62.89

Sheet: 1 of 1

Log of Borehole: MW212

Project #: 267991.007 **Logged By:** MK

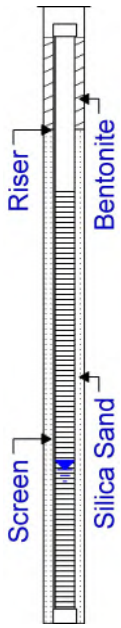
Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~ 50 mm			30	SS1	0/0	
		Fill Brown sand and gravel, damp, no odour or staining	1.22			SS2	0/1	
		Silty Clay Brown/Grey silty clay, moist, no odours or staining	2.29		100	SS3	0/1	
		Very wet	3.05			SS4	0/1	PHCs, VOCs, PAHs, ABNs, Chlorophenols, PH
		End of Borehole No Refusal						



Groundwater level = 2.27 mbgs, as measured on May 17, 2021.

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 5.1 cm

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: 64.88

Top of Casing Elevation: 64.80

Sheet: 1 of 1

Log of Borehole: MW214

Project #: 267991.007 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021



SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
		Ground Surface	0.00					
		Asphalt ~ 50 mm			25	SS1	0/1	PHCs, BTEX, PAHs, Metals, EC, SAR
		Fill Brown sand and gravel with ash and slag, damp, no odour or staining	0.91			SS2	0/0	
		Silty Clay Brown/Grey silty clay, moist, no odours or staining	1.52		100	SS3	0/0	PHCs, VOCs, PAHs
		Very wet				SS4	0/0	
		End of Borehole No Refusal	3.05	Groundwater level = 2.08 mbgs, as measured on May 17, 2021.				

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 5.1 cm

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: 64.37

Top of Casing Elevation: 64.29

Sheet: 1 of 1

Log of Borehole: MW215

Project #: 267991.007 **Logged By:** MK

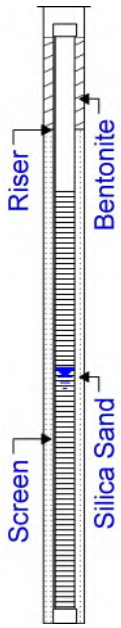
Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
0 / 0		***Asphalt*** ~ 50 mm						
1 / 0		***Sand and Gravel*** Brown sand and gravel, no odour or staining	0.46		60	SS1	0/1	
2 / 0								
3 / 1		***Silty Clay*** Grey silty clay with organic-like odour, moist, no staining				SS2	0/0	
4 / 1								
5 / 1			1.52					
6 / 2		Very wet			100	SS3	0/0	PHCs, VOCs, PAHs
7 / 2								
8 / 2						SS4	0/0	
9 / 3								
10 / 3			3.05					
11 / 3		End of Borehole No Refusal						
12 / 4								
13 / 4								
14 / 4								
15 / 5								
16 / 5								
17 / 5								
18 / 5								



Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 5.1 cm

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: 64.47

Top of Casing Elevation: 64.26

Sheet: 1 of 1

Log of Borehole: MW216

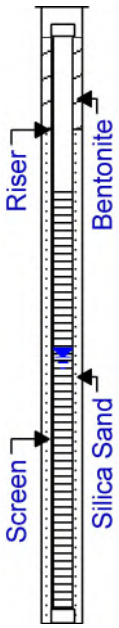
Project #: 267991.007 ***Logged By:*** MK

Project: Phase Two Environmental Site Assessment

Client: 25 Pickering Holdings Inc.

Location: 25 Pickering Place and 1330 Avenue K, Ottawa, Ontario

Drill Date: May 17, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~ 50 mm				SS1	N/A	N/A
		No Sampling				SS2	N/A	N/A
						SS3	N/A	N/A
						SS4	N/A	N/A
10 / 3			3.05					
		End of Borehole No Refusal						

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 5.1 cm

Note:
* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a photoionization detector (PID) and a combustible gas indicator (CGI).

Grade Elevation: 65.78

Top of Casing Elevation: 65.60

Sheet: 1 of 1

APPENDIX D

Laboratory Certificates of Analysis

Your Project #: 267991.007
Your C.O.C. #: 796018-29-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/05/28
Report #: R6651686
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1D6657
Received: 2021/05/19, 13:15

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	9	N/A	2021/05/26	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum (1)	1	N/A	2021/05/27	CAM SOP-00301	EPA 8270D m
ABN Compounds in soil by GC/MS (1)	1	2021/05/22	2021/05/25	CAM SOP-00301	EPA 8270 m
Hot Water Extractable Boron (1)	9	2021/05/25	2021/05/26	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	1	N/A	2021/05/27		EPA 8260C m
Conductivity (1)	8	2021/05/26	2021/05/26	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1, 2)	9	2021/05/26	2021/05/26	CAM SOP-00436	EPA 3060/7199 m
Dinitrotoluene Sum (1)	1	2021/05/20	2021/05/27	CAM SOP - 00301	EPA 8270
Petroleum Hydro. CCME F1 & BTEX in Soil (1, 3)	9	N/A	2021/05/25	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 4)	10	2021/05/22	2021/05/24	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	8	2021/05/27	2021/05/27	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS (1)	7	2021/05/25	2021/05/25	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS (1)	2	2021/05/25	2021/05/27	CAM SOP-00447	EPA 6020B m
Moisture (1)	11	N/A	2021/05/21	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	9	2021/05/25	2021/05/26	CAM SOP-00318	EPA 8270D m
Polychlorinated Biphenyl in Soil (1)	2	2021/05/26	2021/05/26	CAM SOP-00309	EPA 8082A m
pH CaCl2 EXTRACT (1)	1	2021/05/26	2021/05/26	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR) (1)	8	N/A	2021/05/27	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs (1)	1	N/A	2021/05/25	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or

Your Project #: 267991.007
Your C.O.C. #: 796018-29-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/05/28
Report #: R6651686
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1D6657
Received: 2021/05/19, 13:15

implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga
(2) Soils are reported on a dry weight basis unless otherwise specified.
(3) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817
==========
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BV Labs Job #: C1D6657
Report Date: 2021/05/28

Pinchin Ltd
Client Project #: 267991.007
Sampler Initials: MK

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		PPT926		PPT927		PPT928	PPT929		
Sampling Date		2021/05/17		2021/05/17		2021/05/17	2021/05/17		
COC Number		796018-29-01		796018-29-01		796018-29-01	796018-29-01		
	UNITS	BH201 SS-1	QC Batch	BH202 SS-1	QC Batch	BH203 SS-1	BH204 SS-1	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	18	7362700	4.7	7362700	12	5.6		7362700
Inorganics									
Conductivity	mS/cm	0.94	7371338	0.54	7371338	1.8	1.1	0.002	7371338
Moisture	%	7.9	7366337	8.6	7366337	13	5.3	1.0	7366337
Chromium (VI)	ug/g	<0.18	7371056	<0.18	7371056	<0.18	<0.18	0.18	7371056
Metals									
Hot Water Ext. Boron (B)	ug/g	0.25	7368939	0.37	7368939	0.53	0.37	0.050	7368939
Acid Extractable Antimony (Sb)	ug/g	<0.20	7368980	0.49	7369236	<0.20	<0.20	0.20	7368980
Acid Extractable Arsenic (As)	ug/g	1.8	7368980	4.5	7369236	3.1	3.3	1.0	7368980
Acid Extractable Barium (Ba)	ug/g	90	7368980	150	7369236	94	85	0.50	7368980
Acid Extractable Beryllium (Be)	ug/g	0.34	7368980	0.37	7369236	0.36	0.27	0.20	7368980
Acid Extractable Boron (B)	ug/g	6.1	7368980	6.3	7369236	<5.0	5.7	5.0	7368980
Acid Extractable Cadmium (Cd)	ug/g	0.10	7368980	0.22	7369236	0.15	0.11	0.10	7368980
Acid Extractable Chromium (Cr)	ug/g	17	7368980	21	7369236	23	14	1.0	7368980
Acid Extractable Cobalt (Co)	ug/g	6.7	7368980	5.5	7369236	7.4	6.1	0.10	7368980
Acid Extractable Copper (Cu)	ug/g	16	7368980	16	7369236	16	12	0.50	7368980
Acid Extractable Lead (Pb)	ug/g	11	7368980	120	7369236	25	19	1.0	7368980
Acid Extractable Molybdenum (Mo)	ug/g	1.1	7368980	1.2	7369236	1.6	3.0	0.50	7368980
Acid Extractable Nickel (Ni)	ug/g	16	7368980	14	7369236	15	13	0.50	7368980
Acid Extractable Selenium (Se)	ug/g	<0.50	7368980	<0.50	7369236	<0.50	<0.50	0.50	7368980
Acid Extractable Silver (Ag)	ug/g	<0.20	7368980	<0.20	7369236	<0.20	<0.20	0.20	7368980
Acid Extractable Thallium (Tl)	ug/g	0.15	7368980	0.19	7369236	0.16	0.15	0.050	7368980
Acid Extractable Uranium (U)	ug/g	0.82	7368980	0.58	7369236	1.0	0.70	0.050	7368980
Acid Extractable Vanadium (V)	ug/g	26	7368980	24	7369236	30	19	5.0	7368980
Acid Extractable Zinc (Zn)	ug/g	30	7368980	100	7369236	49	29	5.0	7368980
Acid Extractable Mercury (Hg)	ug/g	<0.050	7368980	0.076	7369236	0.10	<0.050	0.050	7368980

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1D6657
Report Date: 2021/05/28

Pinchin Ltd
Client Project #: 267991.007
Sampler Initials: MK

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		PPT930		PPT931		PPT934		
Sampling Date		2021/05/17		2021/05/14		2021/05/14		
COC Number		796018-29-01		796018-29-01		796018-29-01		
	UNITS	DUP-3	QC Batch	BH205 SS-1	QC Batch	BH207 SS-2	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	6.4	7362700	1.6	7362700	7.8		7362700
Inorganics								
Conductivity	mS/cm	1.2	7371338	1.3	7371338	2.0	0.002	7371338
Moisture	%	6.7	7366337	5.9	7366337	20	1.0	7366337
Available (CaCl2) pH	pH					7.37		7371562
Chromium (VI)	ug/g	<0.18	7371056	<0.18	7371056	<0.18	0.18	7371056
Metals								
Hot Water Ext. Boron (B)	ug/g	0.37	7368939	0.21	7368939	0.87	0.050	7368939
Acid Extractable Antimony (Sb)	ug/g	0.23	7369236	<0.20	7368980	4.4	0.20	7368980
Acid Extractable Arsenic (As)	ug/g	3.0	7369236	1.9	7368980	9.3	1.0	7368980
Acid Extractable Barium (Ba)	ug/g	77	7369236	63	7368980	340	0.50	7368980
Acid Extractable Beryllium (Be)	ug/g	0.33	7369236	0.31	7368980	0.39	0.20	7368980
Acid Extractable Boron (B)	ug/g	6.4	7369236	5.5	7368980	7.5	5.0	7368980
Acid Extractable Cadmium (Cd)	ug/g	0.16	7369236	0.13	7368980	15	0.10	7368980
Acid Extractable Chromium (Cr)	ug/g	18	7369236	15	7368980	62	1.0	7368980
Acid Extractable Cobalt (Co)	ug/g	6.2	7369236	6.4	7368980	8.3	0.10	7368980
Acid Extractable Copper (Cu)	ug/g	14	7369236	15	7368980	400	0.50	7368980
Acid Extractable Lead (Pb)	ug/g	22	7369236	22	7368980	340	1.0	7368980
Acid Extractable Molybdenum (Mo)	ug/g	2.5	7369236	0.71	7368980	3.5	0.50	7368980
Acid Extractable Nickel (Ni)	ug/g	14	7369236	14	7368980	39	0.50	7368980
Acid Extractable Selenium (Se)	ug/g	<0.50	7369236	<0.50	7368980	<0.50	0.50	7368980
Acid Extractable Silver (Ag)	ug/g	<0.20	7369236	<0.20	7368980	<0.20	0.20	7368980
Acid Extractable Thallium (Tl)	ug/g	0.15	7369236	0.11	7368980	0.15	0.050	7368980
Acid Extractable Uranium (U)	ug/g	0.69	7369236	0.51	7368980	0.71	0.050	7368980
Acid Extractable Vanadium (V)	ug/g	23	7369236	23	7368980	38	5.0	7368980
Acid Extractable Zinc (Zn)	ug/g	32	7369236	31	7368980	400	5.0	7368980
Acid Extractable Mercury (Hg)	ug/g	<0.050	7369236	0.098	7368980	0.11	0.050	7368980

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		PPT935		
Sampling Date		2021/05/17		
COC Number		796018-29-01		
	UNITS	MW208 SS-1	RDL	QC Batch
Calculated Parameters				
Sodium Adsorption Ratio	N/A	1.8		7362700
Inorganics				
Conductivity	mS/cm	1.2	0.002	7371338
Moisture	%	13	1.0	7366337
Chromium (VI)	ug/g	<0.18	0.18	7371056
Metals				
Hot Water Ext. Boron (B)	ug/g	0.49	0.050	7368939
Acid Extractable Antimony (Sb)	ug/g	1.9	0.20	7368980
Acid Extractable Arsenic (As)	ug/g	3.8	1.0	7368980
Acid Extractable Barium (Ba)	ug/g	160	0.50	7368980
Acid Extractable Beryllium (Be)	ug/g	0.41	0.20	7368980
Acid Extractable Boron (B)	ug/g	10	5.0	7368980
Acid Extractable Cadmium (Cd)	ug/g	0.72	0.10	7368980
Acid Extractable Chromium (Cr)	ug/g	32	1.0	7368980
Acid Extractable Cobalt (Co)	ug/g	7.1	0.10	7368980
Acid Extractable Copper (Cu)	ug/g	40	0.50	7368980
Acid Extractable Lead (Pb)	ug/g	110	1.0	7368980
Acid Extractable Molybdenum (Mo)	ug/g	1.7	0.50	7368980
Acid Extractable Nickel (Ni)	ug/g	20	0.50	7368980
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7368980
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7368980
Acid Extractable Thallium (Tl)	ug/g	0.13	0.050	7368980
Acid Extractable Uranium (U)	ug/g	0.65	0.050	7368980
Acid Extractable Vanadium (V)	ug/g	25	5.0	7368980
Acid Extractable Zinc (Zn)	ug/g	250	5.0	7368980
Acid Extractable Mercury (Hg)	ug/g	0.073	0.050	7368980

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 METALS PACKAGE (SOIL)

BV Labs ID		PPT932		
Sampling Date		2021/05/14		
COC Number		796018-29-01		
	UNITS	BH206 SS-1	RDL	QC Batch
Inorganics				
Chromium (VI)	ug/g	<0.18	0.18	7371056
Metals				
Hot Water Ext. Boron (B)	ug/g	0.33	0.050	7368939
Acid Extractable Antimony (Sb)	ug/g	2.0	0.20	7368980
Acid Extractable Arsenic (As)	ug/g	3.4	1.0	7368980
Acid Extractable Barium (Ba)	ug/g	230	0.50	7368980
Acid Extractable Beryllium (Be)	ug/g	0.39	0.20	7368980
Acid Extractable Boron (B)	ug/g	5.2	5.0	7368980
Acid Extractable Cadmium (Cd)	ug/g	2.1	0.10	7368980
Acid Extractable Chromium (Cr)	ug/g	33	1.0	7368980
Acid Extractable Cobalt (Co)	ug/g	7.4	0.10	7368980
Acid Extractable Copper (Cu)	ug/g	70	0.50	7368980
Acid Extractable Lead (Pb)	ug/g	180	1.0	7368980
Acid Extractable Molybdenum (Mo)	ug/g	0.76	0.50	7368980
Acid Extractable Nickel (Ni)	ug/g	20	0.50	7368980
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7368980
Acid Extractable Silver (Ag)	ug/g	1.3	0.20	7368980
Acid Extractable Thallium (Tl)	ug/g	0.16	0.050	7368980
Acid Extractable Uranium (U)	ug/g	0.70	0.050	7368980
Acid Extractable Vanadium (V)	ug/g	34	5.0	7368980
Acid Extractable Zinc (Zn)	ug/g	500	5.0	7368980
Acid Extractable Mercury (Hg)	ug/g	0.15	0.050	7368980

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (SOIL)

BV Labs ID		PPT926	PPT927	PPT928	PPT929	PPT930		
Sampling Date		2021/05/17	2021/05/17	2021/05/17	2021/05/17	2021/05/17		
COC Number		796018-29-01	796018-29-01	796018-29-01	796018-29-01	796018-29-01		
	UNITS	BH201 SS-1	BH202 SS-1	BH203 SS-1	BH204 SS-1	DUP-3	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	<0.071	0.15	<0.071	<0.071	<0.071	0.071	7362696
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	0.090	0.86	<0.050	0.059	<0.050	0.050	7369829
Acenaphthylene	ug/g	0.071	<0.050	0.070	<0.050	<0.050	0.050	7369829
Anthracene	ug/g	0.21	1.2	0.12	<0.050	<0.050	0.050	7369829
Benzo(a)anthracene	ug/g	0.47	2.5	0.45	0.055	0.10	0.050	7369829
Benzo(a)pyrene	ug/g	0.51	2.2	0.42	0.066	0.090	0.050	7369829
Benzo(b/j)fluoranthene	ug/g	0.62	2.9	0.53	0.084	0.13	0.050	7369829
Benzo(g,h,i)perylene	ug/g	0.32	1.2	0.23	0.081	0.11	0.050	7369829
Benzo(k)fluoranthene	ug/g	0.24	1.1	0.19	<0.050	<0.050	0.050	7369829
Chrysene	ug/g	0.36	2.3	0.35	0.063	0.099	0.050	7369829
Dibenzo(a,h)anthracene	ug/g	0.090	0.36	0.068	<0.050	<0.050	0.050	7369829
Fluoranthene	ug/g	1.1	6.6	0.82	0.21	0.37	0.050	7369829
Fluorene	ug/g	0.12	0.72	<0.050	<0.050	<0.050	0.050	7369829
Indeno(1,2,3-cd)pyrene	ug/g	0.31	1.3	0.25	<0.050	0.067	0.050	7369829
1-Methylnaphthalene	ug/g	<0.050	0.069	<0.050	<0.050	<0.050	0.050	7369829
2-Methylnaphthalene	ug/g	<0.050	0.082	<0.050	<0.050	<0.050	0.050	7369829
Naphthalene	ug/g	<0.050	0.076	<0.050	<0.050	<0.050	0.050	7369829
Phenanthrene	ug/g	0.35	5.8	0.16	0.14	0.14	0.050	7369829
Pyrene	ug/g	0.87	4.8	0.65	0.19	0.30	0.050	7369829
Surrogate Recovery (%)								
D10-Anthracene	%	113	98	112	116	111		7369829
D14-Terphenyl (FS)	%	89	84	86	83	88		7369829
D8-Acenaphthylene	%	94	88	91	91	92		7369829

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (SOIL)

BV Labs ID		PPT931		PPT932		PPT934	PPT935		
Sampling Date		2021/05/14		2021/05/14		2021/05/14	2021/05/17		
COC Number		796018-29-01		796018-29-01		796018-29-01	796018-29-01		
	UNITS	BH205 SS-1	RDL	BH206 SS-1	RDL	BH207 SS-2	MW208 SS-1	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	0.034	0.0071	47	7.1	<0.071	<0.071	0.071	7363768
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	0.14	0.0050	60	5.0	<0.050	<0.050	0.050	7369829
Acenaphthylene	ug/g	0.019	0.0050	12	5.0	<0.050	<0.050	0.050	7369829
Anthracene	ug/g	0.20	0.0050	110	5.0	0.13	<0.050	0.050	7369829
Benzo(a)anthracene	ug/g	0.36	0.0050	140	5.0	0.25	0.051	0.050	7369829
Benzo(a)pyrene	ug/g	0.32	0.0050	99	5.0	0.23	<0.050	0.050	7369829
Benzo(b/j)fluoranthene	ug/g	0.42	0.0050	150	5.0	0.34	0.071	0.050	7369829
Benzo(g,h,i)perylene	ug/g	0.19	0.0050	47	5.0	0.14	<0.050	0.050	7369829
Benzo(k)fluoranthene	ug/g	0.18	0.0050	44	5.0	0.099	<0.050	0.050	7369829
Chrysene	ug/g	0.30	0.0050	110	5.0	0.24	<0.050	0.050	7369829
Dibenzo(a,h)anthracene	ug/g	0.053	0.0050	13	5.0	<0.050	<0.050	0.050	7369829
Fluoranthene	ug/g	0.85	0.0050	410	5.0	0.58	0.11	0.050	7369829
Fluorene	ug/g	0.11	0.0050	93	5.0	<0.050	<0.050	0.050	7369829
Indeno(1,2,3-cd)pyrene	ug/g	0.20	0.0050	53	5.0	0.15	<0.050	0.050	7369829
1-Methylnaphthalene	ug/g	0.016	0.0050	21	5.0	<0.050	<0.050	0.050	7369829
2-Methylnaphthalene	ug/g	0.018	0.0050	26	5.0	<0.050	<0.050	0.050	7369829
Naphthalene	ug/g	0.020	0.0050	48	5.0	0.18	<0.050	0.050	7369829
Phenanthrene	ug/g	0.84	0.0050	430	5.0	0.29	0.087	0.050	7369829
Pyrene	ug/g	0.61	0.0050	300	5.0	0.47	0.091	0.050	7369829
Surrogate Recovery (%)									
D10-Anthracene	%	89		NC (1)		93	105		7369829
D14-Terphenyl (FS)	%	81		NC (1)		92	74		7369829
D8-Acenaphthylene	%	87		NC (1)		84	82		7369829

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was not calculated (NC) due to matrix interferences.

O.REG 153 PCBS (SOIL)

BV Labs ID		PPT932			PPT933		
Sampling Date		2021/05/14			2021/05/14		
COC Number		796018-29-01			796018-29-01		
	UNITS	BH206 SS-1	RDL	QC Batch	DUP 2	RDL	QC Batch
Inorganics							
Moisture	%				15	1.0	7366649
PCBs							
Aroclor 1242	ug/g	<0.010	0.010	7370763	<0.010	0.010	7370763
Aroclor 1248	ug/g	<0.010	0.010	7370763	<0.010	0.010	7370763
Aroclor 1254	ug/g	<0.010	0.010	7370763	<0.010	0.010	7370763
Aroclor 1260	ug/g	<0.010	0.010	7370763	<0.010	0.010	7370763
Total PCB	ug/g	<0.010	0.010	7370763	<0.010	0.010	7370763
Surrogate Recovery (%)							
Decachlorobiphenyl	%	74		7370763	61		7370763

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

BV Labs ID		PPT926	PPT927	PPT928	PPT929	PPT930	PPT931		
Sampling Date		2021/05/17	2021/05/17	2021/05/17	2021/05/17	2021/05/17	2021/05/14		
COC Number		796018-29-01	796018-29-01	796018-29-01	796018-29-01	796018-29-01	796018-29-01		
	UNITS	BH201 SS-1	BH202 SS-1	BH203 SS-1	BH204 SS-1	DUP-3	BH205 SS-1	RDL	QC Batch
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7368764
Toluene	ug/g	<0.020	0.021	<0.020	<0.020	<0.020	0.022	0.020	7368764
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	7368764
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.042	0.038	0.031	0.020	7368764
p+m-Xylene	ug/g	<0.040	0.042	<0.040	0.085	0.078	0.045	0.040	7368764
Total Xylenes	ug/g	<0.040	0.042	<0.040	0.13	0.12	0.077	0.040	7368764
F1 (C6-C10)	ug/g	<10	<10	<10	<10	<10	<10	10	7368764
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	<10	<10	10	7368764
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	19	15	<10	<10	11	<10	10	7367398
F3 (C16-C34 Hydrocarbons)	ug/g	250	830	280	320	410	<50	50	7367398
F4 (C34-C50 Hydrocarbons)	ug/g	660	1700	420	590	780	<50	50	7367398
Reached Baseline at C50	ug/g	No	No	No	No	No	Yes		7367398
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	101	102	102	102	101	100		7368764
4-Bromofluorobenzene	%	104	90	93	93	92	101		7368764
D10-o-Xylene	%	107	103	106	101	104	104		7368764
D4-1,2-Dichloroethane	%	102	101	102	102	103	101		7368764
o-Terphenyl	%	92	89	92	88	91	93		7367398

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

BV Labs ID		PPT932			PPT934	PPT935		
Sampling Date		2021/05/14			2021/05/14	2021/05/17		
COC Number		796018-29-01			796018-29-01	796018-29-01		
	UNITS	BH206 SS-1	RDL	QC Batch	BH207 SS-2	MW208 SS-1	RDL	QC Batch
Inorganics								
Moisture	%	15	1.0	7366337				
BTEX & F1 Hydrocarbons								
Benzene	ug/g	0.055	0.020	7368764	0.037	<0.020	0.020	7368764
Toluene	ug/g	0.29	0.020	7368764	0.098	0.078	0.020	7368764
Ethylbenzene	ug/g	0.18	0.020	7368764	<0.020	<0.020	0.020	7368764
o-Xylene	ug/g	0.70	0.020	7368764	0.035	0.034	0.020	7368764
p+m-Xylene	ug/g	1.2	0.040	7368764	0.095	0.057	0.040	7368764
Total Xylenes	ug/g	1.9	0.040	7368764	0.13	0.091	0.040	7368764
F1 (C6-C10)	ug/g	57	10	7368764	<10	13	10	7368764
F1 (C6-C10) - BTEX	ug/g	54	10	7368764	<10	13	10	7368764
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	1300	10	7367398	58	15	10	7367398
F3 (C16-C34 Hydrocarbons)	ug/g	15000	50	7367398	1200	330	50	7367398
F4 (C34-C50 Hydrocarbons)	ug/g	4200	50	7367398	400	190	50	7367398
Reached Baseline at C50	ug/g	No		7367398	No	No		7367398
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	104		7368764	100	99		7368764
4-Bromofluorobenzene	%	100		7368764	100	91		7368764
D10-o-Xylene	%	106		7368764	103	99		7368764
D4-1,2-Dichloroethane	%	99		7368764	101	102		7368764
o-Terphenyl	%	112		7367398	98	96		7367398

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		PPT936		
Sampling Date		2021/05/17		
COC Number		796018-29-01		
	UNITS	MW208 SS-4	RDL	QC Batch
Inorganics				
Moisture	%	20	1.0	7366337
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	7362697
Volatile Organics				
Acetone (2-Propanone)	ug/g	<0.50	0.50	7365892
Benzene	ug/g	<0.020	0.020	7365892
Bromodichloromethane	ug/g	<0.050	0.050	7365892
Bromoform	ug/g	<0.050	0.050	7365892
Bromomethane	ug/g	<0.050	0.050	7365892
Carbon Tetrachloride	ug/g	<0.050	0.050	7365892
Chlorobenzene	ug/g	<0.050	0.050	7365892
Chloroform	ug/g	<0.050	0.050	7365892
Dibromochloromethane	ug/g	<0.050	0.050	7365892
1,2-Dichlorobenzene	ug/g	<0.050	0.050	7365892
1,3-Dichlorobenzene	ug/g	<0.050	0.050	7365892
1,4-Dichlorobenzene	ug/g	<0.050	0.050	7365892
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	0.050	7365892
1,1-Dichloroethane	ug/g	<0.050	0.050	7365892
1,2-Dichloroethane	ug/g	<0.050	0.050	7365892
1,1-Dichloroethylene	ug/g	<0.050	0.050	7365892
cis-1,2-Dichloroethylene	ug/g	<0.050	0.050	7365892
trans-1,2-Dichloroethylene	ug/g	<0.050	0.050	7365892
1,2-Dichloropropane	ug/g	<0.050	0.050	7365892
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	7365892
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	7365892
Ethylbenzene	ug/g	<0.020	0.020	7365892
Ethylene Dibromide	ug/g	<0.050	0.050	7365892
Hexane	ug/g	<0.050	0.050	7365892
Methylene Chloride(Dichloromethane)	ug/g	<0.050	0.050	7365892
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	0.50	7365892
Methyl Isobutyl Ketone	ug/g	<0.50	0.50	7365892
Methyl t-butyl ether (MTBE)	ug/g	<0.050	0.050	7365892
Styrene	ug/g	<0.050	0.050	7365892
1,1,1,2-Tetrachloroethane	ug/g	<0.050	0.050	7365892
1,1,2,2-Tetrachloroethane	ug/g	<0.050	0.050	7365892
Tetrachloroethylene	ug/g	<0.050	0.050	7365892

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		PPT936		
Sampling Date		2021/05/17		
COC Number		796018-29-01		
	UNITS	MW208 SS-4	RDL	QC Batch
Toluene	ug/g	<0.020	0.020	7365892
1,1,1-Trichloroethane	ug/g	<0.050	0.050	7365892
1,1,2-Trichloroethane	ug/g	<0.050	0.050	7365892
Trichloroethylene	ug/g	<0.050	0.050	7365892
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	0.050	7365892
Vinyl Chloride	ug/g	<0.020	0.020	7365892
p+m-Xylene	ug/g	<0.020	0.020	7365892
o-Xylene	ug/g	<0.020	0.020	7365892
Total Xylenes	ug/g	<0.020	0.020	7365892
F1 (C6-C10)	ug/g	<10	10	7365892
F1 (C6-C10) - BTEX	ug/g	<10	10	7365892
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7367398
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7367398
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7367398
Reached Baseline at C50	ug/g	Yes		7367398
Surrogate Recovery (%)				
o-Terphenyl	%	98		7367398
4-Bromofluorobenzene	%	93		7365892
D10-o-Xylene	%	96		7365892
D4-1,2-Dichloroethane	%	95		7365892
D8-Toluene	%	98		7365892

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 SEMIVOLATILES PACKAGE (SOIL)

BV Labs ID		PPT936		
Sampling Date		2021/05/17		
COC Number		796018-29-01		
	UNITS	MW208 SS-4	RDL	QC Batch
Semivolatile Organics				
1,2,4-Trichlorobenzene	ug/g	<0.05	0.05	7367614
1-Methylnaphthalene	ug/g	<0.03	0.03	7367614
2,4,5-Trichlorophenol	ug/g	<0.08	0.08	7367614
2,4,6-Trichlorophenol	ug/g	<0.1	0.1	7367614
2,4-Dichlorophenol	ug/g	<0.1	0.1	7367614
2,4-Dimethylphenol	ug/g	<0.2	0.2	7367614
2,4-Dinitrophenol	ug/g	<0.5	0.5	7367614
2,4-Dinitrotoluene	ug/g	<0.1	0.1	7367614
2,6-Dinitrotoluene	ug/g	<0.1	0.1	7367614
2-Chlorophenol	ug/g	<0.08	0.08	7367614
2-Methylnaphthalene	ug/g	<0.03	0.03	7367614
3,3'-Dichlorobenzidine	ug/g	<0.5	0.5	7367614
Acenaphthene	ug/g	<0.03	0.03	7367614
Acenaphthylene	ug/g	<0.05	0.05	7367614
Anthracene	ug/g	<0.03	0.03	7367614
Benzo(a)anthracene	ug/g	<0.05	0.05	7367614
Benzo(a)pyrene	ug/g	<0.05	0.05	7367614
Benzo(b/j)fluoranthene	ug/g	<0.1	0.1	7367614
Benzo(g,h,i)perylene	ug/g	<0.1	0.1	7367614
Benzo(k)fluoranthene	ug/g	<0.03	0.03	7367614
Biphenyl	ug/g	<0.05	0.05	7367614
Bis(2-chloroethyl)ether	ug/g	<0.2	0.2	7367614
Bis(2-chloroisopropyl)ether	ug/g	<0.1	0.1	7367614
Bis(2-ethylhexyl)phthalate	ug/g	<1	1	7367614
Chrysene	ug/g	<0.05	0.05	7367614
Dibenzo(a,h)anthracene	ug/g	<0.05	0.05	7367614
Diethyl phthalate	ug/g	<0.2	0.2	7367614
Dimethyl phthalate	ug/g	<0.2	0.2	7367614
Fluoranthene	ug/g	<0.05	0.05	7367614
Fluorene	ug/g	<0.03	0.03	7367614
Indeno(1,2,3-cd)pyrene	ug/g	<0.08	0.08	7367614
Naphthalene	ug/g	<0.03	0.03	7367614
p-Chloroaniline	ug/g	<0.2	0.2	7367614
Pentachlorophenol	ug/g	<0.1	0.1	7367614
Phenanthrene	ug/g	<0.05	0.05	7367614
Phenol	ug/g	<0.09	0.09	7367614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 SEMIVOLATILES PACKAGE (SOIL)

BV Labs ID		PPT936		
Sampling Date		2021/05/17		
COC Number		796018-29-01		
	UNITS	MW208 SS-4	RDL	QC Batch
Pyrene	ug/g	<0.05	0.05	7367614
Acridine	ug/g	<0.2	0.2	7367614
Benzo(e)pyrene	ug/g	<0.05	0.05	7367614
Calculated Parameters				
2,4- & 2,6-Dinitrotoluene	ug/g	<0.14	0.14	7363770
Methylnaphthalene, 2-(1-)	ug/g	<0.042	0.042	7362696
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	44 (1)		7367614
2-Fluorobiphenyl	%	44 (1)		7367614
D14-Terphenyl (FS)	%	50		7367614
D5-Nitrobenzene	%	54		7367614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		PPT926	PPT927	PPT927	PPT928	PPT929	PPT930		
Sampling Date		2021/05/17	2021/05/17	2021/05/17	2021/05/17	2021/05/17	2021/05/17		
COC Number		796018-29-01	796018-29-01	796018-29-01	796018-29-01	796018-29-01	796018-29-01		
	UNITS	BH201 SS-1	BH202 SS-1	BH202 SS-1 Lab-Dup	BH203 SS-1	BH204 SS-1	DUP-3	RDL	QC Batch
F2-F4 Hydrocarbons									
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	1900	5300	4900	1400	2200	3100	100	7373306

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

BV Labs ID		PPT932	PPT934	PPT935		
Sampling Date		2021/05/14	2021/05/14	2021/05/17		
COC Number		796018-29-01	796018-29-01	796018-29-01		
	UNITS	BH206 SS-1	BH207 SS-2	MW208 SS-1	RDL	QC Batch
F2-F4 Hydrocarbons						
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	17000	1200	620	100	7373306

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

BV Labs ID: PPT926
Sample ID: BH201 SS-1
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7362696	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7368980	2021/05/25	2021/05/25	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT927
Sample ID: BH202 SS-1
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7362696	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7369236	2021/05/25	2021/05/27	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT927 Dup
Sample ID: BH202 SS-1
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey

BV Labs ID: PPT928
Sample ID: BH203 SS-1
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7362696	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu

TEST SUMMARY

BV Labs ID: PPT928
Sample ID: BH203 SS-1
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7368980	2021/05/25	2021/05/25	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT929
Sample ID: BH204 SS-1
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7362696	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7368980	2021/05/25	2021/05/25	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT930
Sample ID: DUP-3
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7362696	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7369236	2021/05/25	2021/05/27	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

TEST SUMMARY

BV Labs ID: PPT931
Sample ID: BH205 SS-1
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7368980	2021/05/25	2021/05/25	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT932
Sample ID: BH206 SS-1
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7368980	2021/05/25	2021/05/25	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
Polychlorinated Biphenyl in Soil	GC/ECD	7370763	2021/05/26	2021/05/26	Svitlana Shaula

BV Labs ID: PPT933
Sample ID: DUP 2
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7366649	N/A	2021/05/21	Min Yang
Polychlorinated Biphenyl in Soil	GC/ECD	7370763	2021/05/26	2021/05/26	Svitlana Shaula

BV Labs ID: PPT934
Sample ID: BH207 SS-2
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li

TEST SUMMARY

BV Labs ID: PPT934
Sample ID: BH207 SS-2
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7368980	2021/05/25	2021/05/25	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
pH CaCl2 EXTRACT	AT	7371562	2021/05/26	2021/05/26	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT935
Sample ID: MW208 SS-1
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	7373306	2021/05/27	2021/05/27	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7368980	2021/05/25	2021/05/25	Viviana Canzonieri
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369829	2021/05/25	2021/05/26	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT936
Sample ID: MW208 SS-4
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7362696	N/A	2021/05/27	Automated Statchk
ABN Compounds in soil by GC/MS	GC/MS	7367614	2021/05/22	2021/05/25	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/27	Automated Statchk
Dinitrotoluene Sum	CALC	7363770	2021/05/27	2021/05/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365892	N/A	2021/05/25	Yang (Philip) Yu

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.3°C

Cooler custody seal was present and intact .

PAH ANALYSIS: Due to the sample matrix, most of the samples required dilution. Detection limit was adjusted accordingly.

Sample PPT927 [BH202 SS-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample PPT928 [BH203 SS-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample PPT931 [BH205 SS-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample PPT935 [MW208 SS-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7365892	YY	Matrix Spike	4-Bromofluorobenzene	2021/05/25		104	%	60 - 140
			D10-o-Xylene	2021/05/25		103	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/25		99	%	60 - 140
			D8-Toluene	2021/05/25		106	%	60 - 140
			Acetone (2-Propanone)	2021/05/25		100	%	60 - 140
			Benzene	2021/05/25		88	%	60 - 140
			Bromodichloromethane	2021/05/25		94	%	60 - 140
			Bromoform	2021/05/25		96	%	60 - 140
			Bromomethane	2021/05/25		87	%	60 - 140
			Carbon Tetrachloride	2021/05/25		93	%	60 - 140
			Chlorobenzene	2021/05/25		96	%	60 - 140
			Chloroform	2021/05/25		91	%	60 - 140
			Dibromochloromethane	2021/05/25		93	%	60 - 140
			1,2-Dichlorobenzene	2021/05/25		98	%	60 - 140
			1,3-Dichlorobenzene	2021/05/25		97	%	60 - 140
			1,4-Dichlorobenzene	2021/05/25		117	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2021/05/25		91	%	60 - 140
			1,1-Dichloroethane	2021/05/25		87	%	60 - 140
			1,2-Dichloroethane	2021/05/25		89	%	60 - 140
			1,1-Dichloroethylene	2021/05/25		91	%	60 - 140
			cis-1,2-Dichloroethylene	2021/05/25		95	%	60 - 140
			trans-1,2-Dichloroethylene	2021/05/25		90	%	60 - 140
			1,2-Dichloropropane	2021/05/25		90	%	60 - 140
			cis-1,3-Dichloropropene	2021/05/25		90	%	60 - 140
			trans-1,3-Dichloropropene	2021/05/25		94	%	60 - 140
			Ethylbenzene	2021/05/25		92	%	60 - 140
			Ethylene Dibromide	2021/05/25		93	%	60 - 140
			Hexane	2021/05/25		95	%	60 - 140
			Methylene Chloride(Dichloromethane)	2021/05/25		102	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2021/05/25		106	%	60 - 140
			Methyl Isobutyl Ketone	2021/05/25		104	%	60 - 140
			Methyl t-butyl ether (MTBE)	2021/05/25		94	%	60 - 140
			Styrene	2021/05/25		85	%	60 - 140
			1,1,1,2-Tetrachloroethane	2021/05/25		96	%	60 - 140
			1,1,2,2-Tetrachloroethane	2021/05/25		89	%	60 - 140
			Tetrachloroethylene	2021/05/25		90	%	60 - 140
			Toluene	2021/05/25		92	%	60 - 140
			1,1,1-Trichloroethane	2021/05/25		95	%	60 - 140
			1,1,2-Trichloroethane	2021/05/25		95	%	60 - 140
			Trichloroethylene	2021/05/25		98	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2021/05/25		92	%	60 - 140
			Vinyl Chloride	2021/05/25		86	%	60 - 140
			p+m-Xylene	2021/05/25		94	%	60 - 140
			o-Xylene	2021/05/25		94	%	60 - 140
			F1 (C6-C10)	2021/05/25		113	%	60 - 140
7365892	YY	Spiked Blank	4-Bromofluorobenzene	2021/05/25		106	%	60 - 140
			D10-o-Xylene	2021/05/25		100	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/25		102	%	60 - 140
			D8-Toluene	2021/05/25		104	%	60 - 140
			Acetone (2-Propanone)	2021/05/25		115	%	60 - 140
			Benzene	2021/05/25		87	%	60 - 130
			Bromodichloromethane	2021/05/25		96	%	60 - 130
			Bromoform	2021/05/25		102	%	60 - 130
			Bromomethane	2021/05/25		86	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Carbon Tetrachloride	2021/05/25		91	%	60 - 130
			Chlorobenzene	2021/05/25		94	%	60 - 130
			Chloroform	2021/05/25		91	%	60 - 130
			Dibromochloromethane	2021/05/25		95	%	60 - 130
			1,2-Dichlorobenzene	2021/05/25		95	%	60 - 130
			1,3-Dichlorobenzene	2021/05/25		92	%	60 - 130
			1,4-Dichlorobenzene	2021/05/25		113	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2021/05/25		88	%	60 - 140
			1,1-Dichloroethane	2021/05/25		86	%	60 - 130
			1,2-Dichloroethane	2021/05/25		92	%	60 - 130
			1,1-Dichloroethylene	2021/05/25		88	%	60 - 130
			cis-1,2-Dichloroethylene	2021/05/25		95	%	60 - 130
			trans-1,2-Dichloroethylene	2021/05/25		89	%	60 - 130
			1,2-Dichloropropane	2021/05/25		91	%	60 - 130
			cis-1,3-Dichloropropene	2021/05/25		90	%	60 - 130
			trans-1,3-Dichloropropene	2021/05/25		93	%	60 - 130
			Ethylbenzene	2021/05/25		89	%	60 - 130
			Ethylene Dibromide	2021/05/25		95	%	60 - 130
			Hexane	2021/05/25		91	%	60 - 130
			Methylene Chloride(Dichloromethane)	2021/05/25		103	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/05/25		122	%	60 - 140
			Methyl Isobutyl Ketone	2021/05/25		117	%	60 - 130
			Methyl t-butyl ether (MTBE)	2021/05/25		95	%	60 - 130
			Styrene	2021/05/25		85	%	60 - 130
			1,1,1,2-Tetrachloroethane	2021/05/25		94	%	60 - 130
			1,1,2,2-Tetrachloroethane	2021/05/25		95	%	60 - 130
			Tetrachloroethylene	2021/05/25		86	%	60 - 130
			Toluene	2021/05/25		89	%	60 - 130
			1,1,1-Trichloroethane	2021/05/25		93	%	60 - 130
			1,1,2-Trichloroethane	2021/05/25		95	%	60 - 130
			Trichloroethylene	2021/05/25		96	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2021/05/25		89	%	60 - 130
			Vinyl Chloride	2021/05/25		84	%	60 - 130
			p+m-Xylene	2021/05/25		91	%	60 - 130
			o-Xylene	2021/05/25		92	%	60 - 130
			F1 (C6-C10)	2021/05/25		97	%	80 - 120
7365892	YY	Method Blank	4-Bromofluorobenzene	2021/05/25		94	%	60 - 140
			D10-o-Xylene	2021/05/25		93	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/25		98	%	60 - 140
			D8-Toluene	2021/05/25		96	%	60 - 140
			Acetone (2-Propanone)	2021/05/25	<0.50		ug/g	
			Benzene	2021/05/25	<0.020		ug/g	
			Bromodichloromethane	2021/05/25	<0.050		ug/g	
			Bromoform	2021/05/25	<0.050		ug/g	
			Bromomethane	2021/05/25	<0.050		ug/g	
			Carbon Tetrachloride	2021/05/25	<0.050		ug/g	
			Chlorobenzene	2021/05/25	<0.050		ug/g	
			Chloroform	2021/05/25	<0.050		ug/g	
			Dibromochloromethane	2021/05/25	<0.050		ug/g	
			1,2-Dichlorobenzene	2021/05/25	<0.050		ug/g	
			1,3-Dichlorobenzene	2021/05/25	<0.050		ug/g	
			1,4-Dichlorobenzene	2021/05/25	<0.050		ug/g	
			Dichlorodifluoromethane (FREON 12)	2021/05/25	<0.050		ug/g	
			1,1-Dichloroethane	2021/05/25	<0.050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichloroethane	2021/05/25	<0.050		ug/g	
			1,1-Dichloroethylene	2021/05/25	<0.050		ug/g	
			cis-1,2-Dichloroethylene	2021/05/25	<0.050		ug/g	
			trans-1,2-Dichloroethylene	2021/05/25	<0.050		ug/g	
			1,2-Dichloropropane	2021/05/25	<0.050		ug/g	
			cis-1,3-Dichloropropene	2021/05/25	<0.030		ug/g	
			trans-1,3-Dichloropropene	2021/05/25	<0.040		ug/g	
			Ethylbenzene	2021/05/25	<0.020		ug/g	
			Ethylene Dibromide	2021/05/25	<0.050		ug/g	
			Hexane	2021/05/25	<0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2021/05/25	<0.050		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2021/05/25	<0.50		ug/g	
			Methyl Isobutyl Ketone	2021/05/25	<0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2021/05/25	<0.050		ug/g	
			Styrene	2021/05/25	<0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2021/05/25	<0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2021/05/25	<0.050		ug/g	
			Tetrachloroethylene	2021/05/25	<0.050		ug/g	
			Toluene	2021/05/25	<0.020		ug/g	
			1,1,1-Trichloroethane	2021/05/25	<0.050		ug/g	
			1,1,2-Trichloroethane	2021/05/25	<0.050		ug/g	
			Trichloroethylene	2021/05/25	<0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2021/05/25	<0.050		ug/g	
			Vinyl Chloride	2021/05/25	<0.020		ug/g	
			p+m-Xylene	2021/05/25	<0.020		ug/g	
			o-Xylene	2021/05/25	<0.020		ug/g	
			Total Xylenes	2021/05/25	<0.020		ug/g	
			F1 (C6-C10)	2021/05/25	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/05/25	<10		ug/g	
7365892	YY	RPD	Acetone (2-Propanone)	2021/05/25	NC		%	50
			Benzene	2021/05/25	NC		%	50
			Bromodichloromethane	2021/05/25	NC		%	50
			Bromoform	2021/05/25	NC		%	50
			Bromomethane	2021/05/25	NC		%	50
			Carbon Tetrachloride	2021/05/25	NC		%	50
			Chlorobenzene	2021/05/25	NC		%	50
			Chloroform	2021/05/25	NC		%	50
			Dibromochloromethane	2021/05/25	NC		%	50
			1,2-Dichlorobenzene	2021/05/25	NC		%	50
			1,3-Dichlorobenzene	2021/05/25	NC		%	50
			1,4-Dichlorobenzene	2021/05/25	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2021/05/25	NC		%	50
			1,1-Dichloroethane	2021/05/25	NC		%	50
			1,2-Dichloroethane	2021/05/25	NC		%	50
			1,1-Dichloroethylene	2021/05/25	NC		%	50
			cis-1,2-Dichloroethylene	2021/05/25	NC		%	50
			trans-1,2-Dichloroethylene	2021/05/25	NC		%	50
			1,2-Dichloropropane	2021/05/25	NC		%	50
			cis-1,3-Dichloropropene	2021/05/25	NC		%	50
			trans-1,3-Dichloropropene	2021/05/25	NC		%	50
			Ethylbenzene	2021/05/25	NC		%	50
			Ethylene Dibromide	2021/05/25	NC		%	50
			Hexane	2021/05/25	NC		%	50
			Methylene Chloride(Dichloromethane)	2021/05/25	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl Ethyl Ketone (2-Butanone)	2021/05/25	NC		%	50
			Methyl Isobutyl Ketone	2021/05/25	NC		%	50
			Methyl t-butyl ether (MTBE)	2021/05/25	NC		%	50
			Styrene	2021/05/25	NC		%	50
			1,1,1,2-Tetrachloroethane	2021/05/25	NC		%	50
			1,1,2,2-Tetrachloroethane	2021/05/25	NC		%	50
			Tetrachloroethylene	2021/05/25	NC		%	50
			Toluene	2021/05/25	NC		%	50
			1,1,1-Trichloroethane	2021/05/25	NC		%	50
			1,1,2-Trichloroethane	2021/05/25	NC		%	50
			Trichloroethylene	2021/05/25	NC		%	50
			Trichlorofluoromethane (FREON 11)	2021/05/25	NC		%	50
			Vinyl Chloride	2021/05/25	NC		%	50
			p+m-Xylene	2021/05/25	NC		%	50
			o-Xylene	2021/05/25	NC		%	50
			Total Xylenes	2021/05/25	NC		%	50
			F1 (C6-C10)	2021/05/25	NC		%	30
			F1 (C6-C10) - BTEX	2021/05/25	NC		%	30
7366337	MYG	RPD	Moisture	2021/05/21	0.28		%	20
7366649	MYG	RPD	Moisture	2021/05/21	4.1		%	20
7367398	KLI	Matrix Spike	o-Terphenyl	2021/05/24		99	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/24		115	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/05/24		116	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/05/24		114	%	50 - 130
7367398	KLI	Spiked Blank	o-Terphenyl	2021/05/24		97	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/24		116	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/05/24		118	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/05/24		116	%	80 - 120
7367398	KLI	Method Blank	o-Terphenyl	2021/05/24		90	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/24	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/05/24	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/05/24	<50		ug/g	
7367398	KLI	RPD	F2 (C10-C16 Hydrocarbons)	2021/05/24	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/05/24	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/05/24	NC		%	30
7367614	MA	Matrix Spike	2,4,6-Tribromophenol	2021/05/25		71	%	50 - 130
			2-Fluorobiphenyl	2021/05/25		78	%	50 - 130
			D14-Terphenyl (FS)	2021/05/25		84	%	50 - 130
			D5-Nitrobenzene	2021/05/25		91	%	50 - 130
			1,2,4-Trichlorobenzene	2021/05/25		82	%	50 - 130
			1-Methylnaphthalene	2021/05/25		89	%	50 - 130
			2,4,5-Trichlorophenol	2021/05/25		86	%	50 - 130
			2,4,6-Trichlorophenol	2021/05/25		83	%	50 - 130
			2,4-Dichlorophenol	2021/05/25		97	%	50 - 130
			2,4-Dimethylphenol	2021/05/25		84	%	30 - 130
			2,4-Dinitrophenol	2021/05/25		3.5 (1)	%	30 - 130
			2,4-Dinitrotoluene	2021/05/25		66	%	50 - 130
			2,6-Dinitrotoluene	2021/05/25		59	%	50 - 130
			2-Chlorophenol	2021/05/25		88	%	50 - 130
			2-Methylnaphthalene	2021/05/25		83	%	50 - 130
			3,3'-Dichlorobenzidine	2021/05/25		52	%	30 - 130
			Acenaphthene	2021/05/25		87	%	50 - 130
			Acenaphthylene	2021/05/25		84	%	50 - 130
			Anthracene	2021/05/25		91	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(a)anthracene	2021/05/25		96	%	50 - 130
			Benzo(a)pyrene	2021/05/25		76	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/25		95	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/25		64	%	50 - 130
			Benzo(k)fluoranthene	2021/05/25		100	%	50 - 130
			Biphenyl	2021/05/25		83	%	50 - 130
			Bis(2-chloroethyl)ether	2021/05/25		86	%	50 - 130
			Bis(2-chloroisopropyl)ether	2021/05/25		69	%	50 - 130
			Bis(2-ethylhexyl)phthalate	2021/05/25		90	%	50 - 130
			Chrysene	2021/05/25		94	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/25		73	%	50 - 130
			Diethyl phthalate	2021/05/25		77	%	50 - 130
			Dimethyl phthalate	2021/05/25		79	%	50 - 130
			Fluoranthene	2021/05/25		96	%	50 - 130
			Fluorene	2021/05/25		85	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/25		68	%	50 - 130
			Naphthalene	2021/05/25		93	%	50 - 130
			p-Chloroaniline	2021/05/25		62	%	30 - 130
			Pentachlorophenol	2021/05/25		39 (1)	%	50 - 130
			Phenanthrene	2021/05/25		95	%	50 - 130
			Phenol	2021/05/25		99	%	30 - 130
			Pyrene	2021/05/25		102	%	50 - 130
			Acridine	2021/05/25		83	%	30 - 130
			Benzo(e)pyrene	2021/05/25		98	%	30 - 130
7367614	MA	Spiked Blank	2,4,6-Tribromophenol	2021/05/25		77	%	50 - 130
			2-Fluorobiphenyl	2021/05/25		84	%	50 - 130
			D14-Terphenyl (FS)	2021/05/25		82	%	50 - 130
			D5-Nitrobenzene	2021/05/25		96	%	50 - 130
			1,2,4-Trichlorobenzene	2021/05/25		88	%	50 - 130
			1-Methylnaphthalene	2021/05/25		94	%	50 - 130
			2,4,5-Trichlorophenol	2021/05/25		89	%	50 - 130
			2,4,6-Trichlorophenol	2021/05/25		87	%	50 - 130
			2,4-Dichlorophenol	2021/05/25		103	%	50 - 130
			2,4-Dimethylphenol	2021/05/25		91	%	30 - 130
			2,4-Dinitrophenol	2021/05/25		40	%	30 - 130
			2,4-Dinitrotoluene	2021/05/25		76	%	50 - 130
			2,6-Dinitrotoluene	2021/05/25		89	%	50 - 130
			2-Chlorophenol	2021/05/25		90	%	50 - 130
			2-Methylnaphthalene	2021/05/25		89	%	50 - 130
			3,3'-Dichlorobenzidine	2021/05/25		60	%	30 - 130
			Acenaphthene	2021/05/25		91	%	50 - 130
			Acenaphthylene	2021/05/25		90	%	50 - 130
			Anthracene	2021/05/25		90	%	50 - 130
			Benzo(a)anthracene	2021/05/25		91	%	50 - 130
			Benzo(a)pyrene	2021/05/25		96	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/25		98	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/25		72	%	50 - 130
			Benzo(k)fluoranthene	2021/05/25		109	%	50 - 130
			Biphenyl	2021/05/25		89	%	50 - 130
			Bis(2-chloroethyl)ether	2021/05/25		85	%	50 - 130
			Bis(2-chloroisopropyl)ether	2021/05/25		71	%	50 - 130
			Bis(2-ethylhexyl)phthalate	2021/05/25		73	%	50 - 130
			Chrysene	2021/05/25		93	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/25		79	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Diethyl phthalate	2021/05/25		76	%	50 - 130
			Dimethyl phthalate	2021/05/25		80	%	50 - 130
			Fluoranthene	2021/05/25		94	%	50 - 130
			Fluorene	2021/05/25		86	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/25		72	%	50 - 130
			Naphthalene	2021/05/25		95	%	50 - 130
			p-Chloroaniline	2021/05/25		68	%	30 - 130
			Pentachlorophenol	2021/05/25		71	%	50 - 130
			Phenanthrene	2021/05/25		92	%	50 - 130
			Phenol	2021/05/25		103	%	30 - 130
			Pyrene	2021/05/25		100	%	50 - 130
			Acridine	2021/05/25		71	%	30 - 130
			Benzo(e)pyrene	2021/05/25		99	%	30 - 130
7367614	MA	Method Blank	2,4,6-Tribromophenol	2021/05/25		56	%	50 - 130
			2-Fluorobiphenyl	2021/05/25		86	%	50 - 130
			D14-Terphenyl (FS)	2021/05/25		85	%	50 - 130
			D5-Nitrobenzene	2021/05/25		97	%	50 - 130
			1,2,4-Trichlorobenzene	2021/05/25	<0.05		ug/g	
			1-Methylnaphthalene	2021/05/25	<0.03		ug/g	
			2,4,5-Trichlorophenol	2021/05/25	<0.08		ug/g	
			2,4,6-Trichlorophenol	2021/05/25	<0.1		ug/g	
			2,4-Dichlorophenol	2021/05/25	<0.1		ug/g	
			2,4-Dimethylphenol	2021/05/25	<0.2		ug/g	
			2,4-Dinitrophenol	2021/05/25	<0.5		ug/g	
			2,4-Dinitrotoluene	2021/05/25	<0.1		ug/g	
			2,6-Dinitrotoluene	2021/05/25	<0.1		ug/g	
			2-Chlorophenol	2021/05/25	<0.08		ug/g	
			2-Methylnaphthalene	2021/05/25	<0.03		ug/g	
			3,3'-Dichlorobenzidine	2021/05/25	<0.5		ug/g	
			Acenaphthene	2021/05/25	<0.03		ug/g	
			Acenaphthylene	2021/05/25	<0.05		ug/g	
			Anthracene	2021/05/25	<0.03		ug/g	
			Benzo(a)anthracene	2021/05/25	<0.05		ug/g	
			Benzo(a)pyrene	2021/05/25	<0.05		ug/g	
			Benzo(b/j)fluoranthene	2021/05/25	<0.1		ug/g	
			Benzo(g,h,i)perylene	2021/05/25	<0.1		ug/g	
			Benzo(k)fluoranthene	2021/05/25	<0.03		ug/g	
			Biphenyl	2021/05/25	<0.05		ug/g	
			Bis(2-chloroethyl)ether	2021/05/25	<0.2		ug/g	
			Bis(2-chloroisopropyl)ether	2021/05/25	<0.1		ug/g	
			Bis(2-ethylhexyl)phthalate	2021/05/25	<1		ug/g	
			Chrysene	2021/05/25	<0.05		ug/g	
			Dibenzo(a,h)anthracene	2021/05/25	<0.05		ug/g	
			Diethyl phthalate	2021/05/25	<0.2		ug/g	
			Dimethyl phthalate	2021/05/25	<0.2		ug/g	
			Fluoranthene	2021/05/25	<0.05		ug/g	
			Fluorene	2021/05/25	<0.03		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/05/25	<0.08		ug/g	
			Naphthalene	2021/05/25	<0.03		ug/g	
			p-Chloroaniline	2021/05/25	<0.2		ug/g	
			Pentachlorophenol	2021/05/25	<0.1		ug/g	
			Phenanthrene	2021/05/25	<0.05		ug/g	
			Phenol	2021/05/25	<0.09		ug/g	
			Pyrene	2021/05/25	<0.05		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acridine	2021/05/25	<0.2		ug/g	
			Benzo(e)pyrene	2021/05/25	<0.05		ug/g	
7367614	MA	RPD	1,2,4-Trichlorobenzene	2021/05/25	NC		%	40
			1-Methylnaphthalene	2021/05/25	NC		%	40
			2,4,5-Trichlorophenol	2021/05/25	NC		%	40
			2,4,6-Trichlorophenol	2021/05/25	NC		%	40
			2,4-Dichlorophenol	2021/05/25	NC		%	40
			2,4-Dimethylphenol	2021/05/25	NC		%	40
			2,4-Dinitrophenol	2021/05/25	NC		%	40
			2,4-Dinitrotoluene	2021/05/25	NC		%	40
			2,6-Dinitrotoluene	2021/05/25	NC		%	40
			2-Chlorophenol	2021/05/25	NC		%	40
			2-Methylnaphthalene	2021/05/25	NC		%	40
			3,3'-Dichlorobenzidine	2021/05/25	NC		%	40
			Acenaphthene	2021/05/25	NC		%	40
			Acenaphthylene	2021/05/25	NC		%	40
			Anthracene	2021/05/25	NC		%	40
			Benzo(a)anthracene	2021/05/25	NC		%	40
			Benzo(a)pyrene	2021/05/25	NC		%	40
			Benzo(b/j)fluoranthene	2021/05/25	NC		%	40
			Benzo(g,h,i)perylene	2021/05/25	NC		%	40
			Benzo(k)fluoranthene	2021/05/25	NC		%	40
			Biphenyl	2021/05/25	NC		%	40
			Bis(2-chloroethyl)ether	2021/05/25	NC		%	40
			Bis(2-chloroisopropyl)ether	2021/05/25	NC		%	40
			Bis(2-ethylhexyl)phthalate	2021/05/25	NC		%	40
			Chrysene	2021/05/25	NC		%	40
			Dibenzo(a,h)anthracene	2021/05/25	NC		%	40
			Diethyl phthalate	2021/05/25	NC		%	40
			Dimethyl phthalate	2021/05/25	NC		%	40
			Fluoranthene	2021/05/25	NC		%	40
			Fluorene	2021/05/25	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/05/25	NC		%	40
			Naphthalene	2021/05/25	NC		%	40
			p-Chloroaniline	2021/05/25	NC		%	40
			Pentachlorophenol	2021/05/25	NC		%	40
			Phenanthrene	2021/05/25	NC		%	40
			Phenol	2021/05/25	NC		%	40
			Pyrene	2021/05/25	NC		%	40
7368764	H_W	Matrix Spike	1,4-Difluorobenzene	2021/05/25		97	%	60 - 140
			4-Bromofluorobenzene	2021/05/25		96	%	60 - 140
			D10-o-Xylene	2021/05/25		96	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/25		96	%	60 - 140
			Benzene	2021/05/25		91	%	50 - 140
			Toluene	2021/05/25		93	%	50 - 140
			Ethylbenzene	2021/05/25		105	%	50 - 140
			o-Xylene	2021/05/25		104	%	50 - 140
			p+m-Xylene	2021/05/25		101	%	50 - 140
			F1 (C6-C10)	2021/05/25		83	%	60 - 140
7368764	H_W	Spiked Blank	1,4-Difluorobenzene	2021/05/25		98	%	60 - 140
			4-Bromofluorobenzene	2021/05/25		99	%	60 - 140
			D10-o-Xylene	2021/05/25		107	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/25		97	%	60 - 140
			Benzene	2021/05/25		95	%	50 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Toluene	2021/05/25		96	%	50 - 140
			Ethylbenzene	2021/05/25		109	%	50 - 140
			o-Xylene	2021/05/25		109	%	50 - 140
			p+m-Xylene	2021/05/25		104	%	50 - 140
			F1 (C6-C10)	2021/05/25		93	%	80 - 120
7368764	H_W	Method Blank	1,4-Difluorobenzene	2021/05/25		100	%	60 - 140
			4-Bromofluorobenzene	2021/05/25		89	%	60 - 140
			D10-o-Xylene	2021/05/25		106	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/25		99	%	60 - 140
			Benzene	2021/05/25	<0.020		ug/g	
			Toluene	2021/05/25	<0.020		ug/g	
			Ethylbenzene	2021/05/25	<0.020		ug/g	
			o-Xylene	2021/05/25	<0.020		ug/g	
			p+m-Xylene	2021/05/25	<0.040		ug/g	
			Total Xylenes	2021/05/25	<0.040		ug/g	
			F1 (C6-C10)	2021/05/25	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/05/25	<10		ug/g	
7368764	H_W	RPD	Benzene	2021/05/25	NC		%	50
			Toluene	2021/05/25	NC		%	50
			Ethylbenzene	2021/05/25	NC		%	50
			o-Xylene	2021/05/25	NC		%	50
			p+m-Xylene	2021/05/25	NC		%	50
			Total Xylenes	2021/05/25	NC		%	50
			F1 (C6-C10)	2021/05/25	NC		%	30
			F1 (C6-C10) - BTEX	2021/05/25	NC		%	30
7368939	JOH	Matrix Spike	Hot Water Ext. Boron (B)	2021/05/26		103	%	75 - 125
7368939	JOH	Spiked Blank	Hot Water Ext. Boron (B)	2021/05/26		96	%	75 - 125
7368939	JOH	Method Blank	Hot Water Ext. Boron (B)	2021/05/26	<0.050		ug/g	
7368939	JOH	RPD	Hot Water Ext. Boron (B)	2021/05/26	NC		%	40
7368980	VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2021/05/25		105	%	75 - 125
			Acid Extractable Arsenic (As)	2021/05/25		105	%	75 - 125
			Acid Extractable Barium (Ba)	2021/05/25		99	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/05/25		104	%	75 - 125
			Acid Extractable Boron (B)	2021/05/25		96	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/05/25		105	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/05/25		103	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/05/25		102	%	75 - 125
			Acid Extractable Copper (Cu)	2021/05/25		101	%	75 - 125
			Acid Extractable Lead (Pb)	2021/05/25		103	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/05/25		107	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/05/25		102	%	75 - 125
			Acid Extractable Selenium (Se)	2021/05/25		105	%	75 - 125
			Acid Extractable Silver (Ag)	2021/05/25		104	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/05/25		100	%	75 - 125
			Acid Extractable Uranium (U)	2021/05/25		106	%	75 - 125
			Acid Extractable Vanadium (V)	2021/05/25		104	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/05/25		103	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/05/25		84	%	75 - 125
7368980	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2021/05/25		105	%	80 - 120
			Acid Extractable Arsenic (As)	2021/05/25		104	%	80 - 120
			Acid Extractable Barium (Ba)	2021/05/25		109	%	80 - 120
			Acid Extractable Beryllium (Be)	2021/05/25		99	%	80 - 120
			Acid Extractable Boron (B)	2021/05/25		98	%	80 - 120
			Acid Extractable Cadmium (Cd)	2021/05/25		102	%	80 - 120

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Chromium (Cr)	2021/05/25		105	%	80 - 120
			Acid Extractable Cobalt (Co)	2021/05/25		102	%	80 - 120
			Acid Extractable Copper (Cu)	2021/05/25		104	%	80 - 120
			Acid Extractable Lead (Pb)	2021/05/25		103	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2021/05/25		103	%	80 - 120
			Acid Extractable Nickel (Ni)	2021/05/25		103	%	80 - 120
			Acid Extractable Selenium (Se)	2021/05/25		104	%	80 - 120
			Acid Extractable Silver (Ag)	2021/05/25		103	%	80 - 120
			Acid Extractable Thallium (Tl)	2021/05/25		101	%	80 - 120
			Acid Extractable Uranium (U)	2021/05/25		107	%	80 - 120
			Acid Extractable Vanadium (V)	2021/05/25		100	%	80 - 120
			Acid Extractable Zinc (Zn)	2021/05/25		103	%	80 - 120
			Acid Extractable Mercury (Hg)	2021/05/25		93	%	80 - 120
7368980	VIV	Method Blank	Acid Extractable Antimony (Sb)	2021/05/25	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2021/05/25	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2021/05/25	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2021/05/25	<0.20		ug/g	
			Acid Extractable Boron (B)	2021/05/25	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2021/05/25	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2021/05/25	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2021/05/25	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2021/05/25	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2021/05/25	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2021/05/25	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2021/05/25	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2021/05/25	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2021/05/25	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2021/05/25	<0.050		ug/g	
			Acid Extractable Uranium (U)	2021/05/25	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2021/05/25	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2021/05/25	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2021/05/25	<0.050		ug/g	
7368980	VIV	RPD	Acid Extractable Antimony (Sb)	2021/05/25	NC		%	30
			Acid Extractable Arsenic (As)	2021/05/25	6.8		%	30
			Acid Extractable Barium (Ba)	2021/05/25	0.032		%	30
			Acid Extractable Beryllium (Be)	2021/05/25	NC		%	30
			Acid Extractable Boron (B)	2021/05/25	NC		%	30
			Acid Extractable Cadmium (Cd)	2021/05/25	NC		%	30
			Acid Extractable Chromium (Cr)	2021/05/25	1.2		%	30
			Acid Extractable Cobalt (Co)	2021/05/25	1.8		%	30
			Acid Extractable Copper (Cu)	2021/05/25	4.0		%	30
			Acid Extractable Lead (Pb)	2021/05/25	5.9		%	30
			Acid Extractable Molybdenum (Mo)	2021/05/25	NC		%	30
			Acid Extractable Nickel (Ni)	2021/05/25	3.0		%	30
			Acid Extractable Selenium (Se)	2021/05/25	NC		%	30
			Acid Extractable Silver (Ag)	2021/05/25	NC		%	30
			Acid Extractable Thallium (Tl)	2021/05/25	NC		%	30
			Acid Extractable Uranium (U)	2021/05/25	17		%	30
			Acid Extractable Vanadium (V)	2021/05/25	0.19		%	30
			Acid Extractable Zinc (Zn)	2021/05/25	6.5		%	30
			Acid Extractable Mercury (Hg)	2021/05/25	NC		%	30
7369236	VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2021/05/27		91	%	75 - 125
			Acid Extractable Arsenic (As)	2021/05/27		92	%	75 - 125
			Acid Extractable Barium (Ba)	2021/05/27		NC	%	75 - 125

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Beryllium (Be)	2021/05/27		94	%	75 - 125
			Acid Extractable Boron (B)	2021/05/27		87	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/05/27		92	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/05/27		NC	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/05/27		94	%	75 - 125
			Acid Extractable Copper (Cu)	2021/05/27		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2021/05/27		NC	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/05/27		94	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/05/27		NC	%	75 - 125
			Acid Extractable Selenium (Se)	2021/05/27		92	%	75 - 125
			Acid Extractable Silver (Ag)	2021/05/27		96	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/05/27		88	%	75 - 125
			Acid Extractable Uranium (U)	2021/05/27		94	%	75 - 125
			Acid Extractable Vanadium (V)	2021/05/27		97	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/05/27		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/05/27		79	%	75 - 125
7369236	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2021/05/27		101	%	80 - 120
			Acid Extractable Arsenic (As)	2021/05/27		100	%	80 - 120
			Acid Extractable Barium (Ba)	2021/05/27		97	%	80 - 120
			Acid Extractable Beryllium (Be)	2021/05/27		103	%	80 - 120
			Acid Extractable Boron (B)	2021/05/27		98	%	80 - 120
			Acid Extractable Cadmium (Cd)	2021/05/27		99	%	80 - 120
			Acid Extractable Chromium (Cr)	2021/05/27		100	%	80 - 120
			Acid Extractable Cobalt (Co)	2021/05/27		100	%	80 - 120
			Acid Extractable Copper (Cu)	2021/05/27		100	%	80 - 120
			Acid Extractable Lead (Pb)	2021/05/27		100	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2021/05/27		100	%	80 - 120
			Acid Extractable Nickel (Ni)	2021/05/27		101	%	80 - 120
			Acid Extractable Selenium (Se)	2021/05/27		100	%	80 - 120
			Acid Extractable Silver (Ag)	2021/05/27		102	%	80 - 120
			Acid Extractable Thallium (Tl)	2021/05/27		98	%	80 - 120
			Acid Extractable Uranium (U)	2021/05/27		102	%	80 - 120
			Acid Extractable Vanadium (V)	2021/05/27		97	%	80 - 120
			Acid Extractable Zinc (Zn)	2021/05/27		98	%	80 - 120
			Acid Extractable Mercury (Hg)	2021/05/27		85	%	80 - 120
7369236	VIV	Method Blank	Acid Extractable Antimony (Sb)	2021/05/27	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2021/05/27	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2021/05/27	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2021/05/27	<0.20		ug/g	
			Acid Extractable Boron (B)	2021/05/27	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2021/05/27	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2021/05/27	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2021/05/27	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2021/05/27	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2021/05/27	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2021/05/27	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2021/05/27	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2021/05/27	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2021/05/27	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2021/05/27	<0.050		ug/g	
			Acid Extractable Uranium (U)	2021/05/27	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2021/05/27	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2021/05/27	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2021/05/27	<0.050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7369236	VIV	RPD	Acid Extractable Antimony (Sb)	2021/05/27	15		%	30
			Acid Extractable Arsenic (As)	2021/05/27	5.9		%	30
			Acid Extractable Barium (Ba)	2021/05/27	1.3		%	30
			Acid Extractable Beryllium (Be)	2021/05/27	0.56		%	30
			Acid Extractable Boron (B)	2021/05/27	3.0		%	30
			Acid Extractable Cadmium (Cd)	2021/05/27	12		%	30
			Acid Extractable Chromium (Cr)	2021/05/27	2.6		%	30
			Acid Extractable Cobalt (Co)	2021/05/27	2.5		%	30
			Acid Extractable Copper (Cu)	2021/05/27	4.5		%	30
			Acid Extractable Lead (Pb)	2021/05/27	8.2		%	30
			Acid Extractable Molybdenum (Mo)	2021/05/27	0.45		%	30
			Acid Extractable Nickel (Ni)	2021/05/27	22		%	30
			Acid Extractable Selenium (Se)	2021/05/27	NC		%	30
			Acid Extractable Silver (Ag)	2021/05/27	NC		%	30
			Acid Extractable Thallium (Tl)	2021/05/27	17		%	30
			Acid Extractable Uranium (U)	2021/05/27	4.8		%	30
			Acid Extractable Vanadium (V)	2021/05/27	5.1		%	30
			Acid Extractable Zinc (Zn)	2021/05/27	6.2		%	30
7369829	JYO	Matrix Spike	D10-Anthracene	2021/05/26		89	%	50 - 130
			D14-Terphenyl (FS)	2021/05/26		85	%	50 - 130
			D8-Acenaphthylene	2021/05/26		81	%	50 - 130
			Acenaphthene	2021/05/26		87	%	50 - 130
			Acenaphthylene	2021/05/26		78	%	50 - 130
			Anthracene	2021/05/26		87	%	50 - 130
			Benzo(a)anthracene	2021/05/26		88	%	50 - 130
			Benzo(a)pyrene	2021/05/26		78	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/26		88	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/26		89	%	50 - 130
			Benzo(k)fluoranthene	2021/05/26		91	%	50 - 130
			Chrysene	2021/05/26		90	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/26		86	%	50 - 130
			Fluoranthene	2021/05/26		89	%	50 - 130
			Fluorene	2021/05/26		87	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/26		89	%	50 - 130
			1-Methylnaphthalene	2021/05/26		92	%	50 - 130
			2-Methylnaphthalene	2021/05/26		89	%	50 - 130
			Naphthalene	2021/05/26		80	%	50 - 130
			Phenanthrene	2021/05/26		88	%	50 - 130
			Pyrene	2021/05/26		89	%	50 - 130
7369829	JYO	Spiked Blank	D10-Anthracene	2021/05/26		92	%	50 - 130
			D14-Terphenyl (FS)	2021/05/26		101	%	50 - 130
			D8-Acenaphthylene	2021/05/26		85	%	50 - 130
			Acenaphthene	2021/05/26		87	%	50 - 130
			Acenaphthylene	2021/05/26		79	%	50 - 130
			Anthracene	2021/05/26		87	%	50 - 130
			Benzo(a)anthracene	2021/05/26		90	%	50 - 130
			Benzo(a)pyrene	2021/05/26		81	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/26		93	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/26		93	%	50 - 130
			Benzo(k)fluoranthene	2021/05/26		95	%	50 - 130
			Chrysene	2021/05/26		93	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/26		81	%	50 - 130
			Fluoranthene	2021/05/26		105	%	50 - 130
			Fluorene	2021/05/26		89	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Indeno(1,2,3-cd)pyrene	2021/05/26		96	%	50 - 130
			1-Methylnaphthalene	2021/05/26		95	%	50 - 130
			2-Methylnaphthalene	2021/05/26		92	%	50 - 130
			Naphthalene	2021/05/26		85	%	50 - 130
			Phenanthrene	2021/05/26		90	%	50 - 130
			Pyrene	2021/05/26		104	%	50 - 130
7369829	JYO	Method Blank	D10-Anthracene	2021/05/26		95	%	50 - 130
			D14-Terphenyl (FS)	2021/05/26		79	%	50 - 130
			D8-Acenaphthylene	2021/05/26		82	%	50 - 130
			Acenaphthene	2021/05/26	<0.0050		ug/g	
			Acenaphthylene	2021/05/26	<0.0050		ug/g	
			Anthracene	2021/05/26	<0.0050		ug/g	
			Benzo(a)anthracene	2021/05/26	<0.0050		ug/g	
			Benzo(a)pyrene	2021/05/26	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/05/26	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2021/05/26	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/05/26	<0.0050		ug/g	
			Chrysene	2021/05/26	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/05/26	<0.0050		ug/g	
			Fluoranthene	2021/05/26	<0.0050		ug/g	
			Fluorene	2021/05/26	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/05/26	<0.0050		ug/g	
			1-Methylnaphthalene	2021/05/26	<0.0050		ug/g	
			2-Methylnaphthalene	2021/05/26	<0.0050		ug/g	
			Naphthalene	2021/05/26	<0.0050		ug/g	
			Phenanthrene	2021/05/26	<0.0050		ug/g	
			Pyrene	2021/05/26	<0.0050		ug/g	
7369829	JYO	RPD	Acenaphthene	2021/05/26	NC		%	40
			Acenaphthylene	2021/05/26	NC		%	40
			Anthracene	2021/05/26	NC		%	40
			Benzo(a)anthracene	2021/05/26	NC		%	40
			Benzo(a)pyrene	2021/05/26	NC		%	40
			Benzo(b/j)fluoranthene	2021/05/26	NC		%	40
			Benzo(g,h,i)perylene	2021/05/26	NC		%	40
			Benzo(k)fluoranthene	2021/05/26	NC		%	40
			Chrysene	2021/05/26	NC		%	40
			Dibenzo(a,h)anthracene	2021/05/26	NC		%	40
			Fluoranthene	2021/05/26	NC		%	40
			Fluorene	2021/05/26	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/05/26	NC		%	40
			1-Methylnaphthalene	2021/05/26	NC		%	40
			2-Methylnaphthalene	2021/05/26	NC		%	40
			Naphthalene	2021/05/26	NC		%	40
			Phenanthrene	2021/05/26	NC		%	40
			Pyrene	2021/05/26	NC		%	40
7370763	SVS	Matrix Spike	Decachlorobiphenyl	2021/05/26		101	%	60 - 130
			Aroclor 1260	2021/05/26		120	%	30 - 130
			Total PCB	2021/05/26		120	%	30 - 130
7370763	SVS	Spiked Blank	Decachlorobiphenyl	2021/05/26		100	%	60 - 130
			Aroclor 1260	2021/05/26		121	%	30 - 130
			Total PCB	2021/05/26		121	%	30 - 130
7370763	SVS	Method Blank	Decachlorobiphenyl	2021/05/26		102	%	60 - 130
			Aroclor 1242	2021/05/26	<0.010		ug/g	
			Aroclor 1248	2021/05/26	<0.010		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Aroclor 1254	2021/05/26	<0.010		ug/g	
			Aroclor 1260	2021/05/26	<0.010		ug/g	
			Total PCB	2021/05/26	<0.010		ug/g	
7370763	SVS	RPD	Aroclor 1242	2021/05/26	66 (2)		%	50
			Aroclor 1248	2021/05/26	NC		%	50
			Aroclor 1254	2021/05/26	NC		%	50
			Aroclor 1260	2021/05/26	NC		%	50
			Total PCB	2021/05/26	66 (2)		%	50
7371056	VP2	Matrix Spike	Chromium (VI)	2021/05/26		92	%	70 - 130
7371056	VP2	Spiked Blank	Chromium (VI)	2021/05/26		98	%	80 - 120
7371056	VP2	Method Blank	Chromium (VI)	2021/05/26	<0.18		ug/g	
7371056	VP2	RPD	Chromium (VI)	2021/05/26	NC		%	35
7371338	KHP	Spiked Blank	Conductivity	2021/05/26		101	%	90 - 110
7371338	KHP	Method Blank	Conductivity	2021/05/26	<0.002		mS/cm	
7371338	KHP	RPD	Conductivity	2021/05/26	1.7		%	10
7371562	NYS	Spiked Blank	Available (CaCl2) pH	2021/05/26		99	%	97 - 103
7371562	NYS	RPD	Available (CaCl2) pH	2021/05/26	0.34		%	N/A
7373306	RDU	Matrix Spike [PPT926-01]	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/27		70	%	65 - 135
7373306	RDU	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/27		102	%	65 - 135
7373306	RDU	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/27	<100		ug/g	
7373306	RDU	RPD [PPT927-01]	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/27	6.7		%	50

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

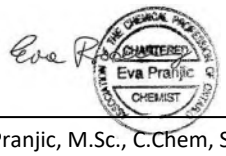
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Duplicate results exceeded RPD acceptance criteria due to the sample heterogeneity. The variability in the results for flagged analytes may be more pronounced.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Antonella Brasil

C1D6657

oratories
oad, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
KTN	ENV-810	Company Name:		Quotation #:	A70927	BV Labs Job #:	Bottle Order #:
Company Name:	#982 Pinchin Ltd	Attention:	Matt, Ryan, Mike	P.O. #:			796018
Attention:	Accounts Payable	Address:		Project:	267991.007	COC #:	Project Manager:
Address:	1 Hines Road Suite 200			Project Name:		C#796018-29-01	Antonella Brasil
	Kanata ON K2K 3C7	Tel:	Fax:	Site #:			
Tel:	(613) 592-3387 Fax: (613) 592-5897	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Sampled By:	Mikosiw		
Email:	ap@pinchin.com						

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☒ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☒ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? Y

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: X
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 ICPMS Metals (Soil) Full metals	O.Reg 153 PHCs, BTEX/F1-F4 (Soil)	O.Reg 153 VOCs by HS (Soil)	O.Reg 153 PAHs (Soil)	pH CaCl2 EXTRACT	Sieve, 75um	ABNs	PCBs	Chlorophenols	SAR+EC	# of Bottles	Comments
1		BH201 SS-1	May 17 2021	PM	SOIL		X	X		X						X	2	* metals to
2		BH202 SS-1					X	X		X						X	2	include H. Boron
3		BH203 SS-1					X	X		X						X	2	mercury Chromium
4		BH204 SS-1					X	X		X						X	2	
5		Dup-3					X	X		X						X	2	
6		BH205 SS-1	May 14 2021				X	X		X						X	2	
7		BH206 SS-1					X	X		X				X			2	
8		Dup-2					[illegible]			[illegible]				X			1	
9		BH207 SS-2					X	X		X	X					X	2	11. PHC, VOC
10		MW208 SS-1	May 17 2021	PM			X	X		X						X	2	MW208 SS-4 PAHs, ABN, Chlorophenols

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Mike Rosiw	May 19 2021		[illegible]	2021/05/19	13:15	
			VI TRINH	2021/05/20	08:30	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
	5.5.6	Intact	X	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

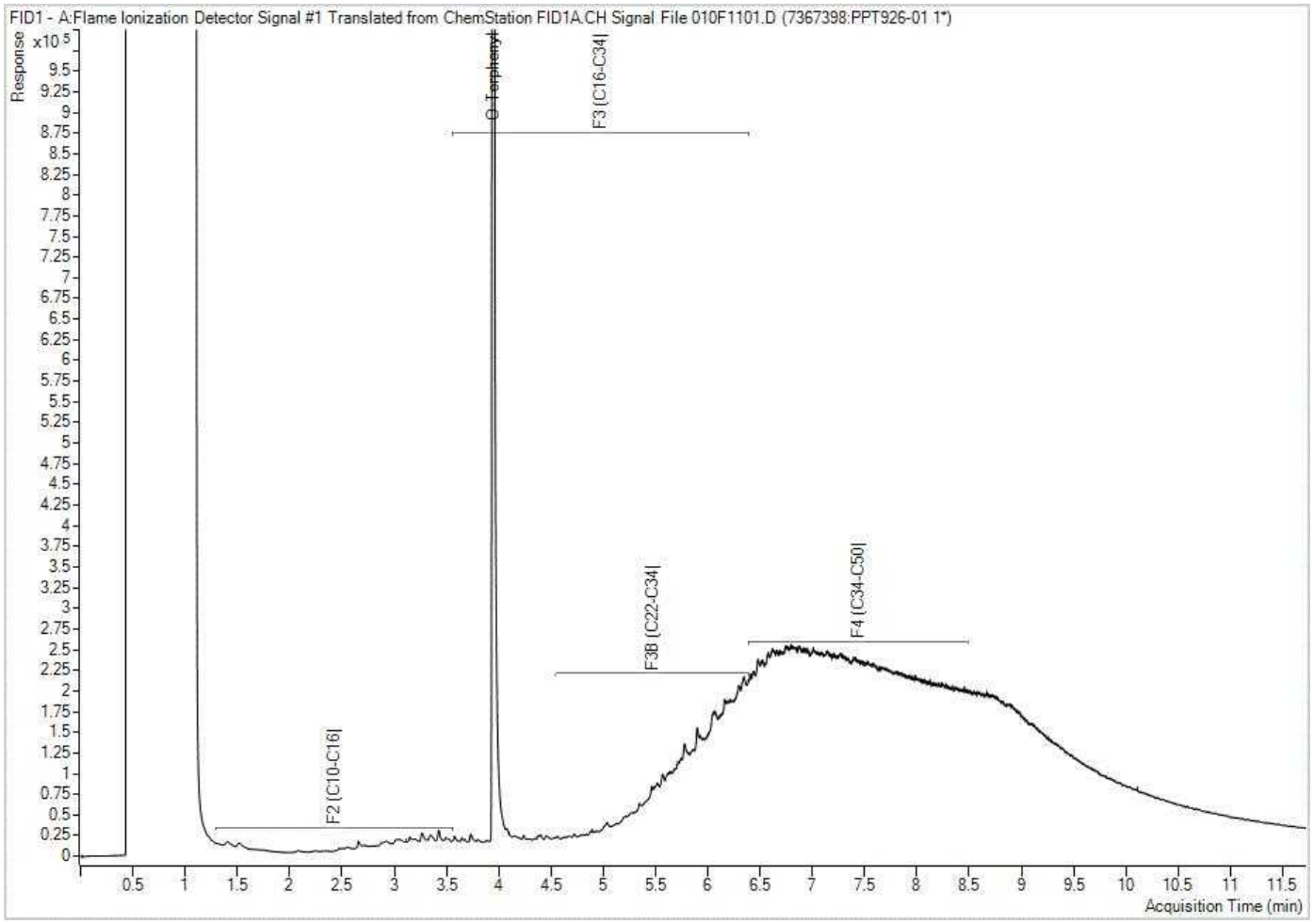
21112

ON Jue

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT926

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH201 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

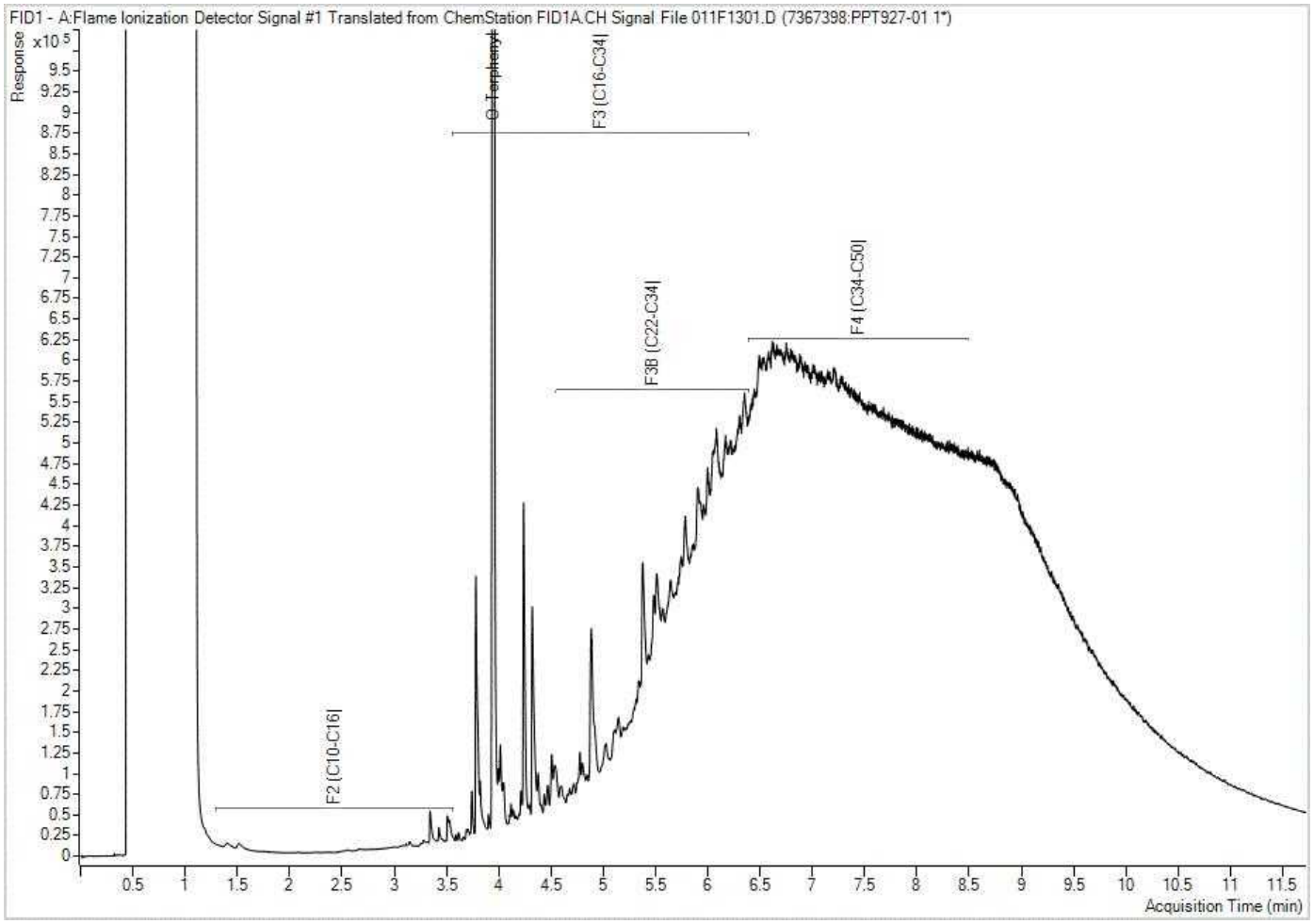


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT927

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH202 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

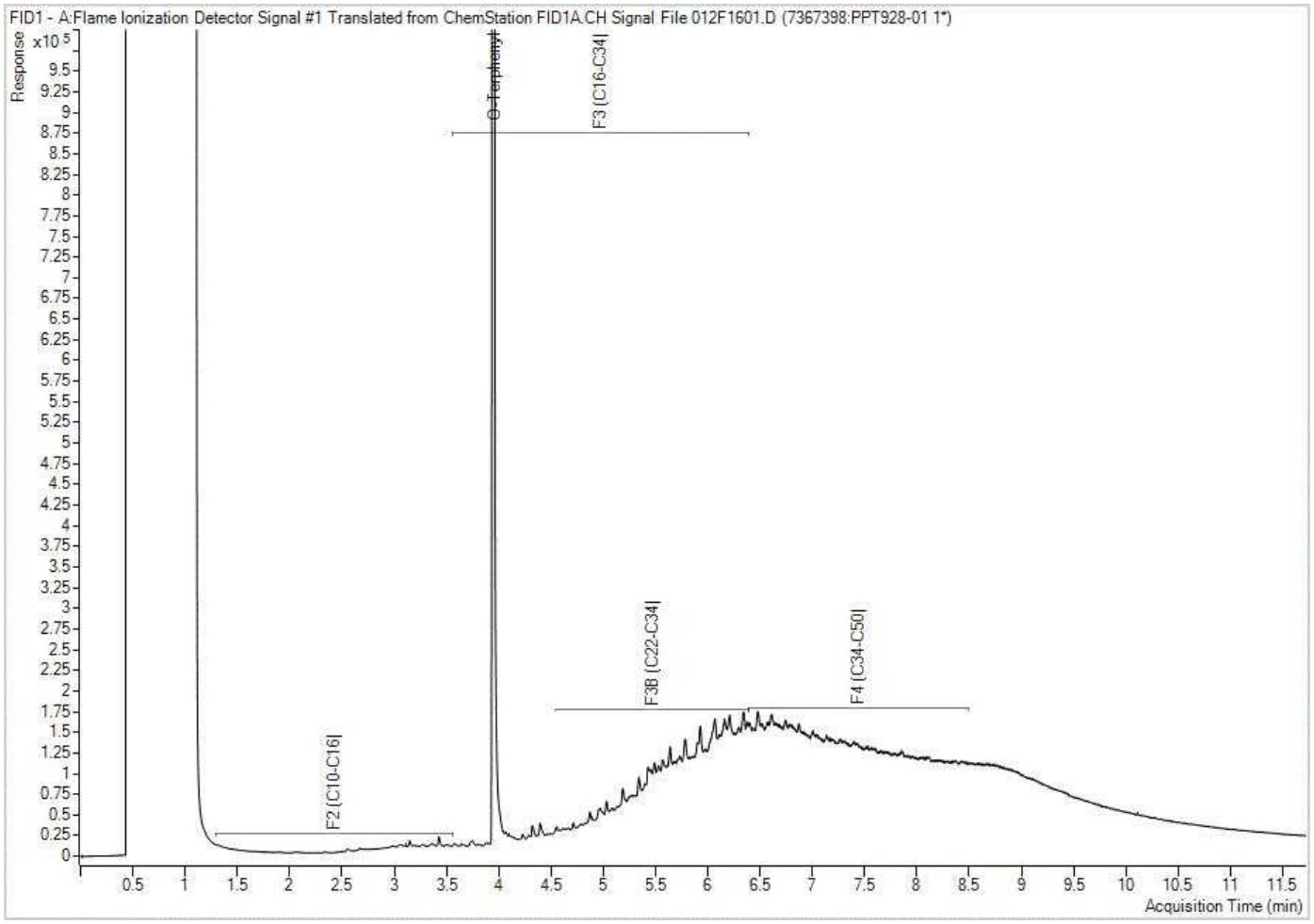


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT928

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH203 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

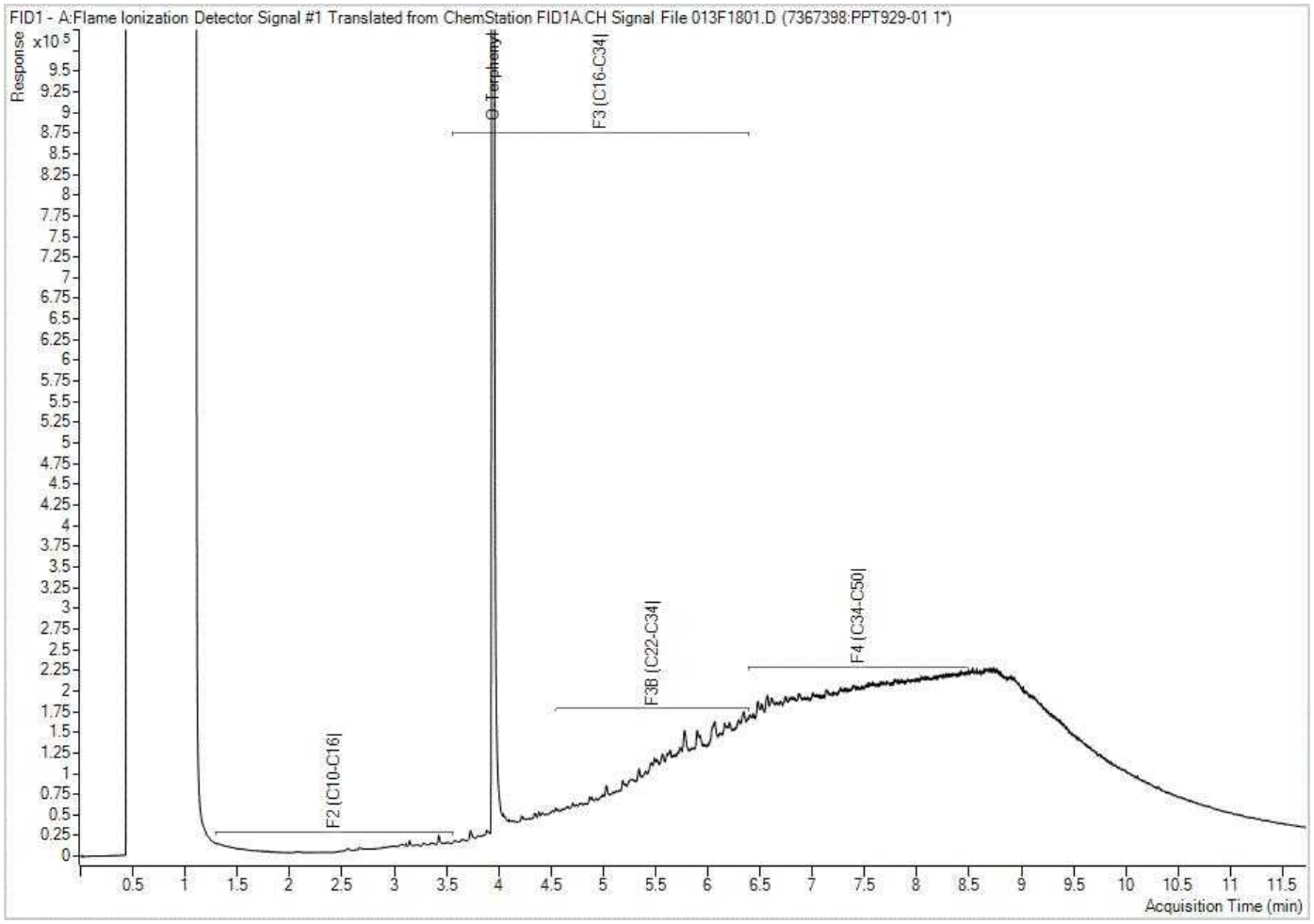


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT929

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH204 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

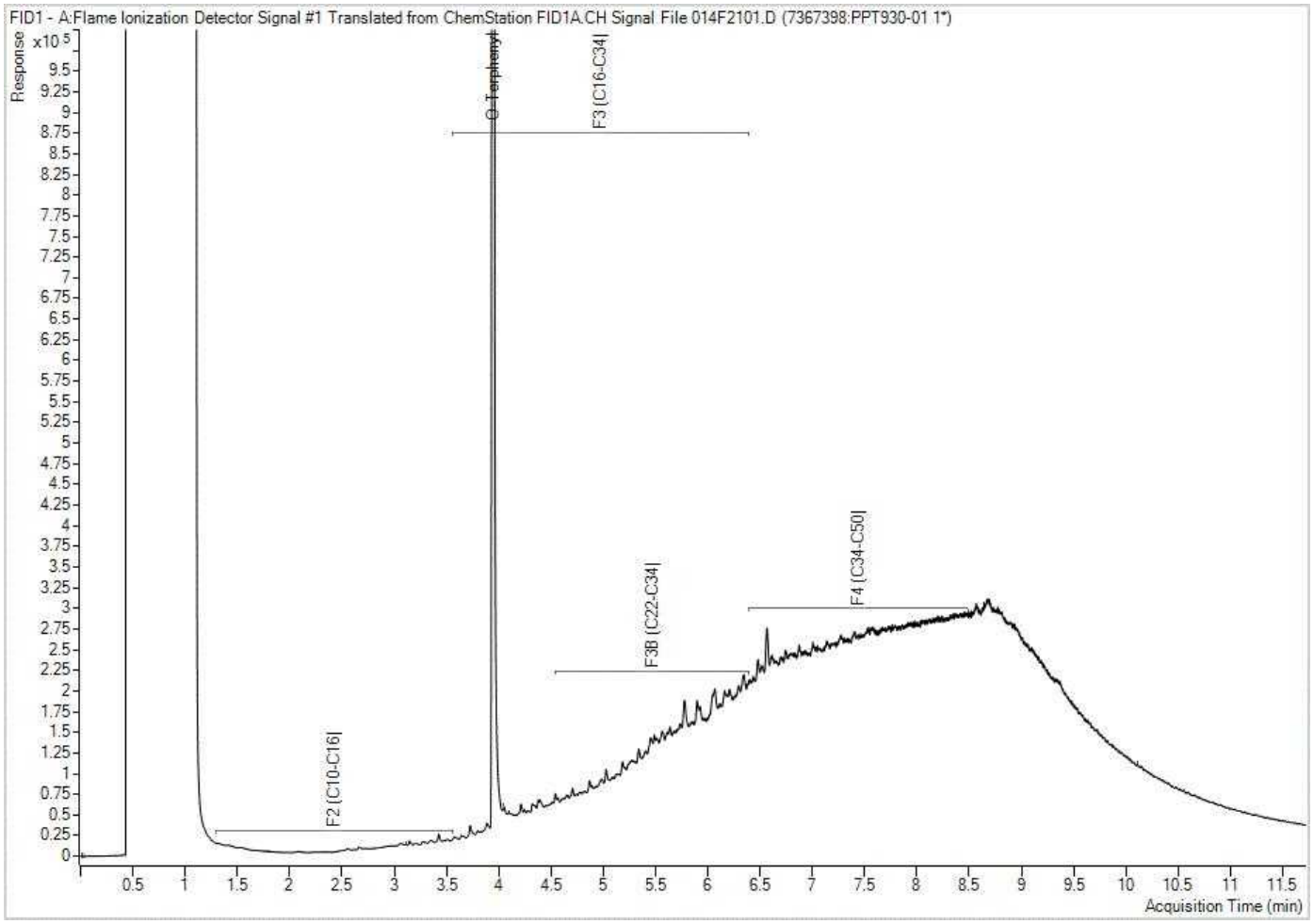


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT930

Pinchin Ltd
Client Project #: 267991.007
Client ID: DUP-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

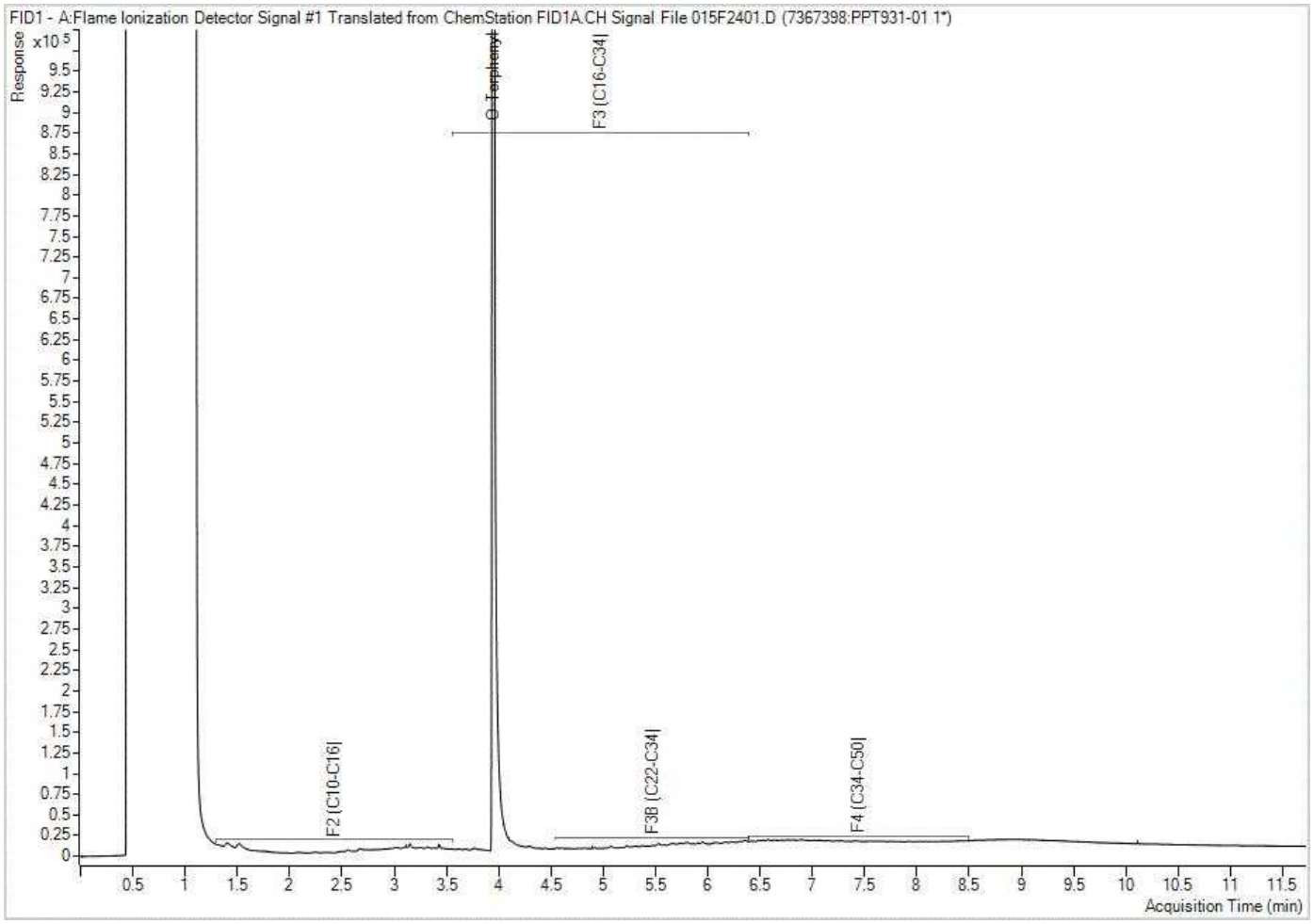


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT931

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH205 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

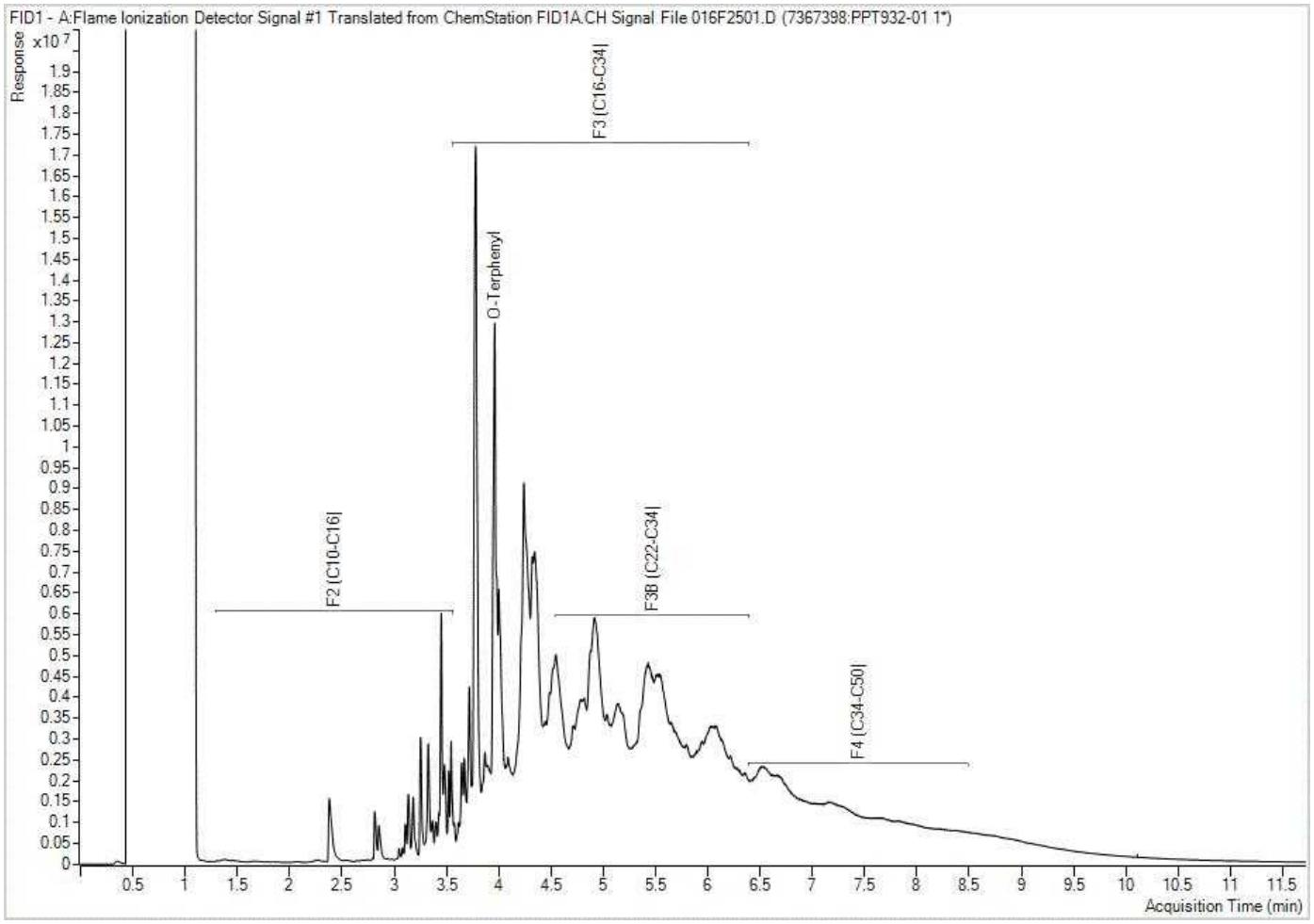


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT932

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH206 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

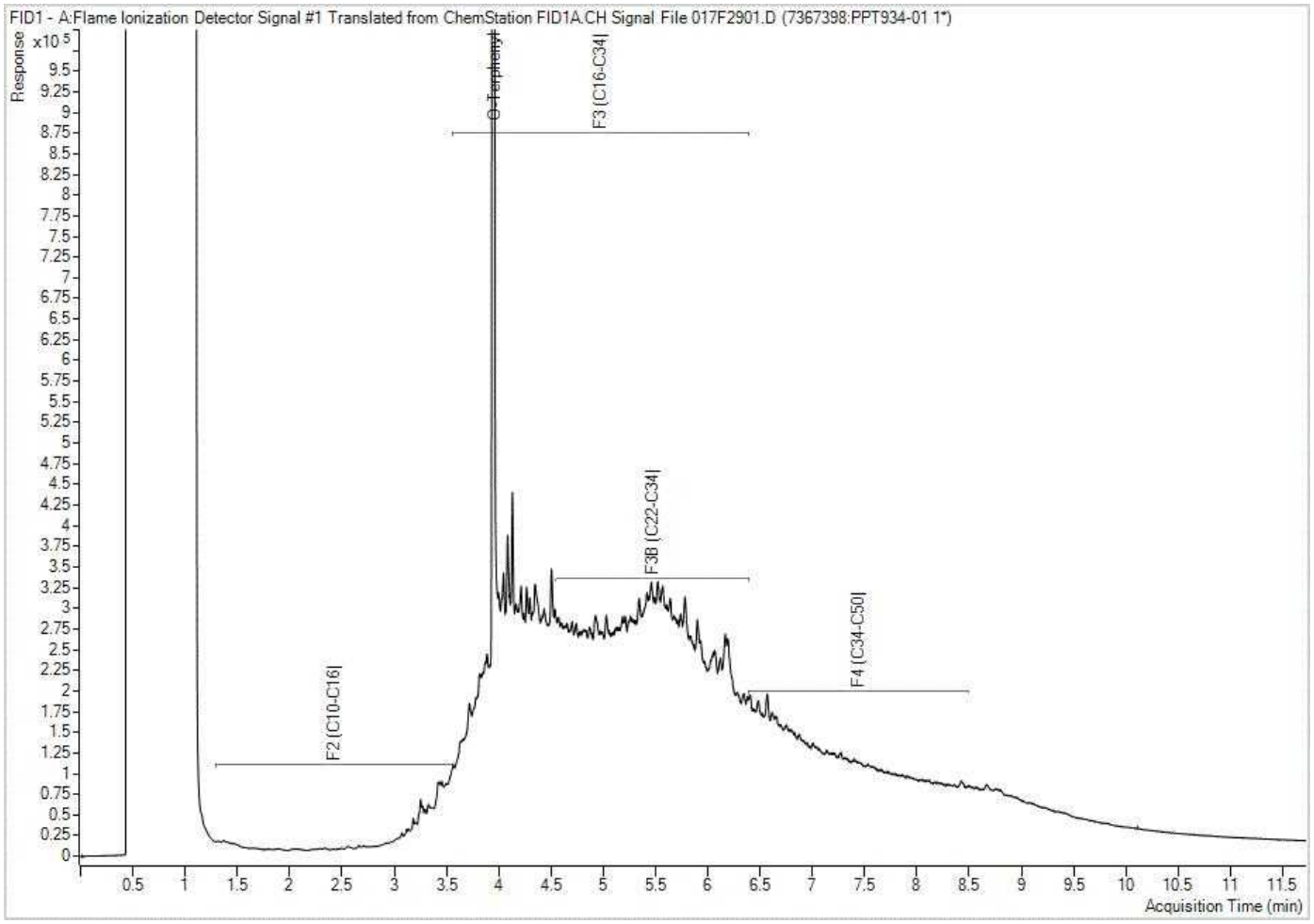


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT934

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH207 SS-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

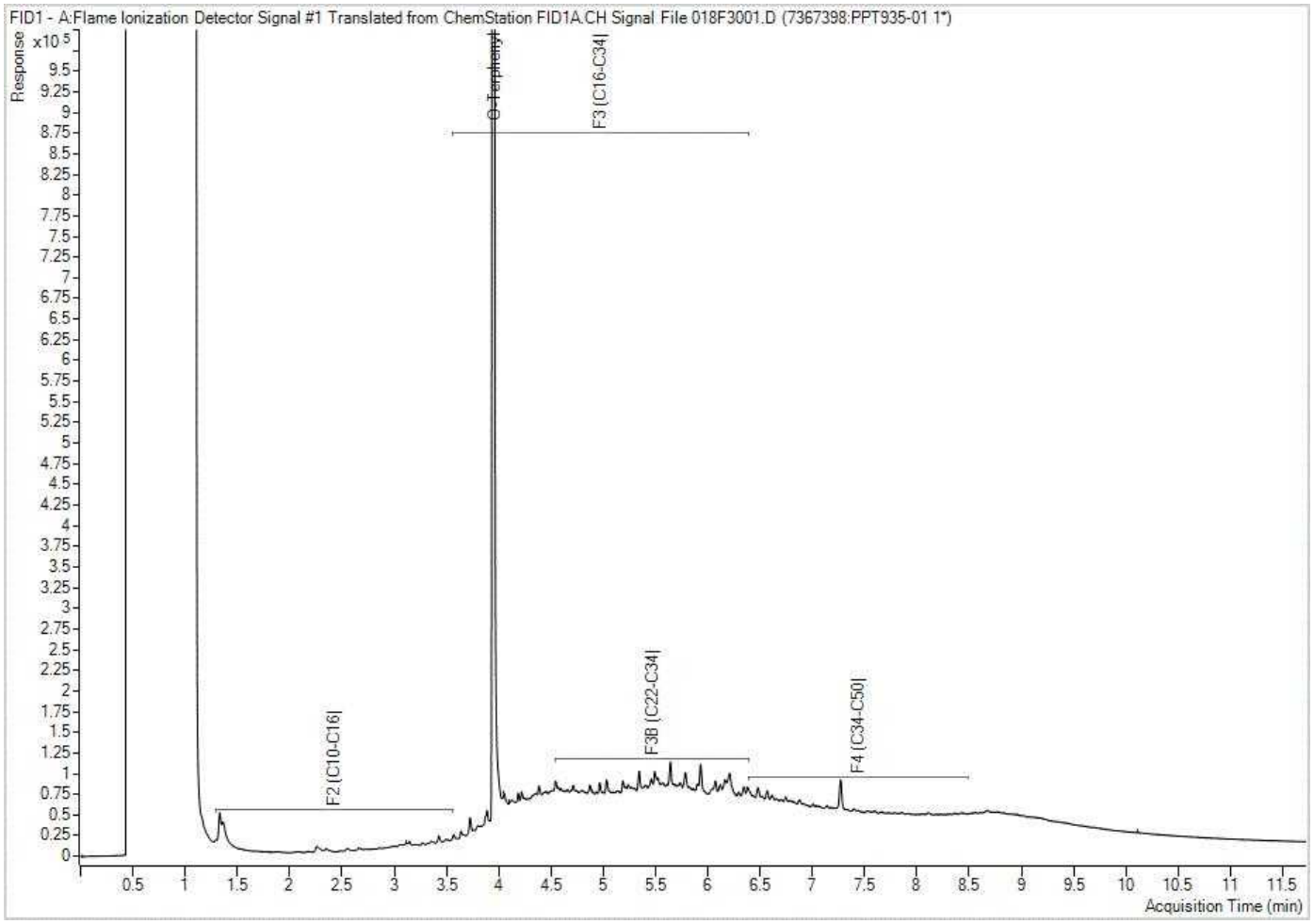


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT935

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW208 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

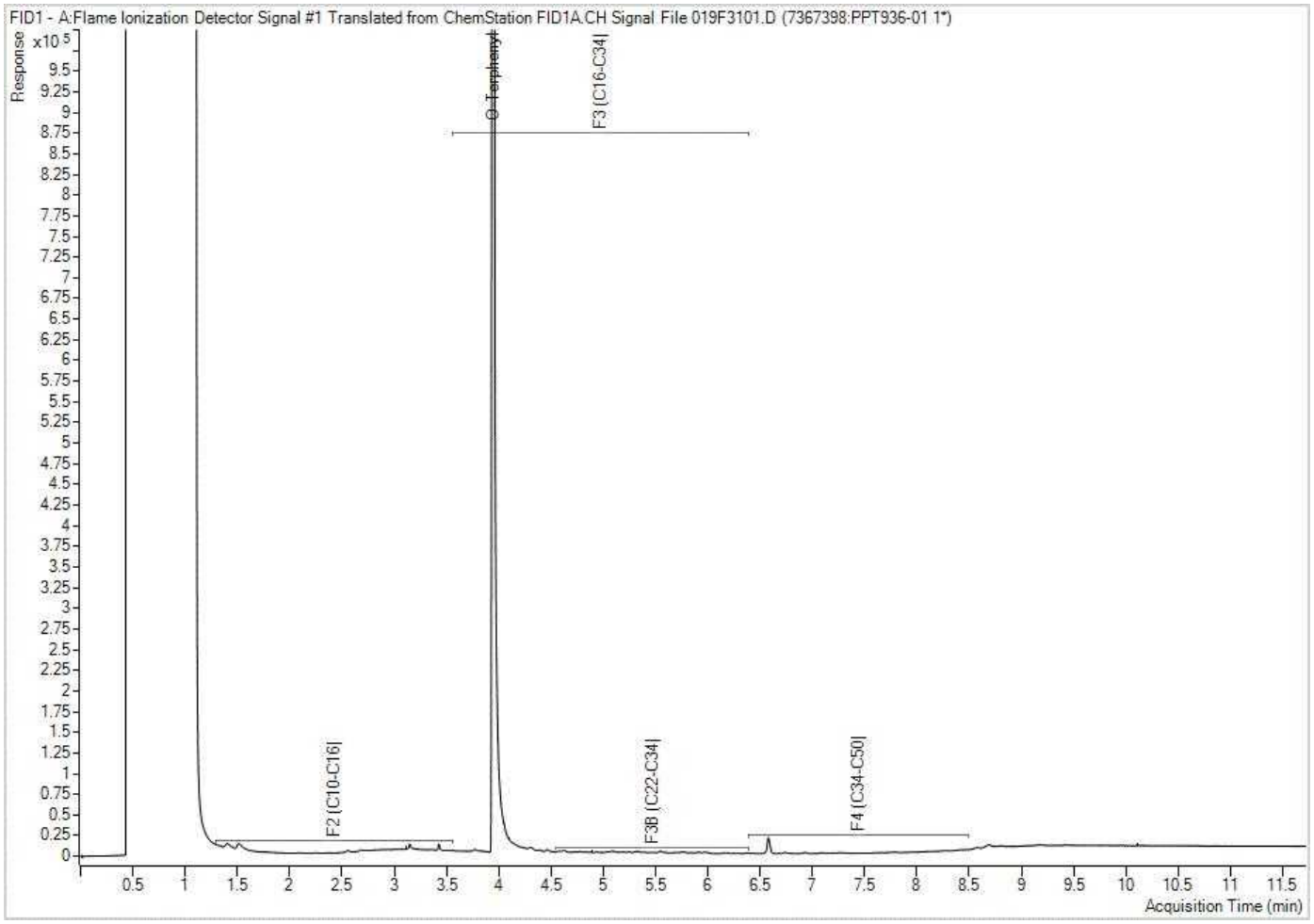


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6657
Report Date: 2021/05/28
BV Labs Sample: PPT936

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW208 SS-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your Project #: 267991.007
Your C.O.C. #: 796018-30-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/09
Report #: R6668397
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1D6669
Received: 2021/05/19, 13:20

Sample Matrix: Soil
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	5	N/A	2021/05/26	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum (1)	5	N/A	2021/05/27	CAM SOP-00301	EPA 8270D m
ABN Compounds in soil by GC/MS (1)	5	2021/05/22	2021/05/25	CAM SOP-00301	EPA 8270 m
Hot Water Extractable Boron (1)	2	2021/05/25	2021/05/26	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	8	N/A	2021/05/23		EPA 8260C m
Cyanide (WAD) in Leachates (1)	1	N/A	2021/06/07	CAM SOP-00457	OMOE 3015 m
Conductivity (1)	2	2021/05/26	2021/05/26	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1, 2)	2	2021/05/26	2021/05/26	CAM SOP-00436	EPA 3060/7199 m
Dinitrotoluene Sum (1)	5	2021/05/20	2021/05/27	CAM SOP - 00301	EPA 8270
Petroleum Hydro. CCME F1 & BTEX in Soil (1, 3)	2	N/A	2021/05/25	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 4)	9	2021/05/22	2021/05/24	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 4)	1	2021/05/25	2021/05/25	CAM SOP-00316	CCME CWS m
Fluoride by ISE in Leachates (1)	1	2021/06/07	2021/06/07	CAM SOP-00449	SM 23 4500-F- C m
Acid Extractable Metals by ICPMS (1)	2	2021/05/25	2021/05/26	CAM SOP-00447	EPA 6020B m
Total Metals in TCLP Leachate by ICPMS (1)	1	2021/06/07	2021/06/07	CAM SOP-00447	EPA 6020B m
Moisture (1)	10	N/A	2021/05/21	CAM SOP-00445	Carter 2nd ed 51.2 m
Nitrate(NO3) + Nitrite(NO2) in Leachate (1)	1	N/A	2021/06/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
PAH Compounds in Leachate by GC/MS (SIM) (1)	1	2021/06/07	2021/06/08	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM) (1)	5	2021/05/25	2021/05/26	CAM SOP-00318	EPA 8270D m
Polychlorinated Biphenyl in Leachate (1)	1	2021/06/07	2021/06/08	CAM SOP-00309	EPA 8082A m
pH CaCl2 EXTRACT (1)	3	2021/05/26	2021/05/26	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR) (1)	2	N/A	2021/05/27	CAM SOP-00102	EPA 6010C
TCLP - % Solids (1)	1	2021/06/04	2021/06/05	CAM SOP-00401	EPA 1311 Update I m
TCLP - Extraction Fluid (1)	1	N/A	2021/06/05	CAM SOP-00401	EPA 1311 Update I m
TCLP - Initial and final pH (1)	1	N/A	2021/06/05	CAM SOP-00401	EPA 1311 Update I m
TCLP Zero Headspace Extraction (1)	1	2021/06/07	2021/06/08	CAM SOP-00430	EPA 1311 m
Volatile Organic Compounds and F1 PHCs (1)	8	N/A	2021/05/23	CAM SOP-00230	EPA 8260C m
VOCs in ZHE Leachates (1)	1	2021/06/08	2021/06/08	CAM SOP-00228	EPA 8260C m

Remarks:

Your Project #: 267991.007
Your C.O.C. #: 796018-30-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/09
Report #: R6668397
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1D6669
Received: 2021/05/19, 13:20

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga
(2) Soils are reported on a dry weight basis unless otherwise specified.
(3) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Your Project #: 267991.007
Your C.O.C. #: 796018-30-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/09
Report #: R6668397
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1D6669
Received: 2021/05/19, 13:20

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817
==========
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

O.REG 153 METALS & INORGANICS PKG (SOIL)

BV Labs ID		PPT984			PPT984			PPT991		
Sampling Date		2021/05/14			2021/05/14			2021/05/17		
	UNITS	BH209 SS-1	RDL	QC Batch	BH209 SS-1 Lab-Dup	RDL	QC Batch	MW214 SS-1	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	1.1		7362700				13		7362700
Inorganics										
Conductivity	mS/cm	0.59	0.002	7371338				0.53	0.002	7371338
Available (CaCl2) pH	pH	7.86		7371562						
Chromium (VI)	ug/g	<0.18	0.18	7371056				<0.18	0.18	7371056
Metals										
Hot Water Ext. Boron (B)	ug/g	0.24	0.050	7368939				0.13	0.050	7368939
Acid Extractable Antimony (Sb)	ug/g	0.63	0.20	7368807	0.53	0.20	7368807	1.1	0.20	7368807
Acid Extractable Arsenic (As)	ug/g	1.3	1.0	7368807	1.2	1.0	7368807	2.3	1.0	7368807
Acid Extractable Barium (Ba)	ug/g	95	0.50	7368807	85	0.50	7368807	79	0.50	7368807
Acid Extractable Beryllium (Be)	ug/g	0.24	0.20	7368807	0.23	0.20	7368807	0.34	0.20	7368807
Acid Extractable Boron (B)	ug/g	5.2	5.0	7368807	5.1	5.0	7368807	<5.0	5.0	7368807
Acid Extractable Cadmium (Cd)	ug/g	0.26	0.10	7368807	0.14	0.10	7368807	0.61	0.10	7368807
Acid Extractable Chromium (Cr)	ug/g	19	1.0	7368807	19	1.0	7368807	25	1.0	7368807
Acid Extractable Cobalt (Co)	ug/g	4.4	0.10	7368807	4.1	0.10	7368807	6.7	0.10	7368807
Acid Extractable Copper (Cu)	ug/g	17	0.50	7368807	16	0.50	7368807	14	0.50	7368807
Acid Extractable Lead (Pb)	ug/g	43	1.0	7368807	39	1.0	7368807	110	1.0	7368807
Acid Extractable Molybdenum (Mo)	ug/g	0.75	0.50	7368807	0.68	0.50	7368807	0.69	0.50	7368807
Acid Extractable Nickel (Ni)	ug/g	9.7	0.50	7368807	9.3	0.50	7368807	14	0.50	7368807
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7368807	<0.50	0.50	7368807	<0.50	0.50	7368807
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7368807	<0.20	0.20	7368807	<0.20	0.20	7368807
Acid Extractable Thallium (Tl)	ug/g	0.097	0.050	7368807	0.086	0.050	7368807	0.11	0.050	7368807
Acid Extractable Uranium (U)	ug/g	0.57	0.050	7368807	0.46	0.050	7368807	0.63	0.050	7368807
Acid Extractable Vanadium (V)	ug/g	23	5.0	7368807	23	5.0	7368807	31	5.0	7368807
Acid Extractable Zinc (Zn)	ug/g	80	5.0	7368807	79	5.0	7368807	77	5.0	7368807
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	7368807	<0.050	0.050	7368807	<0.050	0.050	7368807

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 PAHS (SOIL)

BV Labs ID		PPT984		PPT990		PPT991		PPT992	PPT993		
Sampling Date		2021/05/14		2021/05/17		2021/05/17		2021/05/17	2021/05/17		
	UNITS	BH209 SS-1	RDL	BH213 SS-4	RDL	MW214 SS-1	RDL	MW214 SS-3	MW215 SS-3	RDL	QC Batch
Calculated Parameters											
Methylnaphthalene, 2-(1-)	ug/g	<0.071	0.071	<0.0071	0.0071	1.0	0.071	<0.0071	<0.0071	0.0071	7363768
Polyaromatic Hydrocarbons											
Acenaphthene	ug/g	<0.050	0.050	<0.0050	0.0050	4.6	0.050	<0.0050	<0.0050	0.0050	7369881
Acenaphthylene	ug/g	<0.050	0.050	<0.0050	0.0050	<0.050	0.050	<0.0050	<0.0050	0.0050	7369881
Anthracene	ug/g	<0.050	0.050	<0.0050	0.0050	6.0	0.050	<0.0050	<0.0050	0.0050	7369881
Benzo(a)anthracene	ug/g	<0.050	0.050	<0.0050	0.0050	8.6	0.050	<0.0050	<0.0050	0.0050	7369881
Benzo(a)pyrene	ug/g	<0.050	0.050	<0.0050	0.0050	7.1	0.050	<0.0050	<0.0050	0.0050	7369881
Benzo(b/j)fluoranthene	ug/g	<0.050	0.050	<0.0050	0.0050	8.6	0.050	<0.0050	<0.0050	0.0050	7369881
Benzo(g,h,i)perylene	ug/g	<0.050	0.050	<0.0050	0.0050	3.8	0.050	<0.0050	<0.0050	0.0050	7369881
Benzo(k)fluoranthene	ug/g	<0.050	0.050	<0.0050	0.0050	3.0	0.050	<0.0050	<0.0050	0.0050	7369881
Chrysene	ug/g	<0.050	0.050	<0.0050	0.0050	7.4	0.050	<0.0050	<0.0050	0.0050	7369881
Dibenzo(a,h)anthracene	ug/g	<0.050	0.050	<0.0050	0.0050	0.90	0.050	<0.0050	<0.0050	0.0050	7369881
Fluoranthene	ug/g	<0.050	0.050	<0.0050	0.0050	23	0.050	<0.0050	<0.0050	0.0050	7369881
Fluorene	ug/g	<0.050	0.050	<0.0050	0.0050	4.0	0.050	<0.0050	<0.0050	0.0050	7369881
Indeno(1,2,3-cd)pyrene	ug/g	<0.050	0.050	<0.0050	0.0050	3.9	0.050	<0.0050	<0.0050	0.0050	7369881
1-Methylnaphthalene	ug/g	<0.050	0.050	<0.0050	0.0050	0.45	0.050	<0.0050	<0.0050	0.0050	7369881
2-Methylnaphthalene	ug/g	<0.050	0.050	<0.0050	0.0050	0.59	0.050	<0.0050	<0.0050	0.0050	7369881
Naphthalene	ug/g	<0.050	0.050	<0.0050	0.0050	0.51	0.050	<0.0050	<0.0050	0.0050	7369881
Phenanthrene	ug/g	<0.050	0.050	<0.0050	0.0050	25	0.050	<0.0050	<0.0050	0.0050	7369881
Pyrene	ug/g	<0.050	0.050	<0.0050	0.0050	18	0.050	<0.0050	<0.0050	0.0050	7369881
Surrogate Recovery (%)											
D10-Anthracene	%	97		89		107		89	89		7369881
D14-Terphenyl (FS)	%	88		82		111		83	81		7369881
D8-Acenaphthylene	%	90		82		101		86	84		7369881

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

BV Labs ID		PPT984	PPT991		
Sampling Date		2021/05/14	2021/05/17		
	UNITS	BH209 SS-1	MW214 SS-1	RDL	QC Batch
Inorganics					
Moisture	%	7.0	14	1.0	7366337
BTEX & F1 Hydrocarbons					
Benzene	ug/g	<0.020	<0.020	0.020	7368764
Toluene	ug/g	0.035	<0.020	0.020	7368764
Ethylbenzene	ug/g	<0.020	<0.020	0.020	7368764
o-Xylene	ug/g	0.023	<0.020	0.020	7368764
p+m-Xylene	ug/g	0.043	<0.040	0.040	7368764
Total Xylenes	ug/g	0.066	<0.040	0.040	7368764
F1 (C6-C10)	ug/g	<10	<10	10	7368764
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7368764
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	10	17	10	7367398
F3 (C16-C34 Hydrocarbons)	ug/g	210	320	50	7367398
F4 (C34-C50 Hydrocarbons)	ug/g	65	130	50	7367398
Reached Baseline at C50	ug/g	Yes	Yes		7367398
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	102	103		7368764
4-Bromofluorobenzene	%	96	91		7368764
D10-o-Xylene	%	104	100		7368764
D4-1,2-Dichloroethane	%	104	102		7368764
o-Terphenyl	%	99	93		7367398

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		PPT985		PPT986	PPT987	PPT988	PPT989		
Sampling Date		2021/05/14		2021/05/14	2021/05/14	2021/05/14	2021/05/14		
	UNITS	BH209 SS-3	RDL	MW210 SS-3	MW211 SS-3	MW212 SS-4	DUP-1	RDL	QC Batch
Inorganics									
Moisture	%	40	1.0	31	20	24	35	1.0	7366337
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7362697
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7365808
Benzene	ug/g	0.040	0.020	<0.020	<0.020	<0.020	<0.020	0.020	7365808
Bromodichloromethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Bromoform	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Bromomethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Carbon Tetrachloride	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Chlorobenzene	ug/g	6.3	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Chloroform	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Dibromochloromethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,2-Dichlorobenzene	ug/g	0.15	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,3-Dichlorobenzene	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,4-Dichlorobenzene	ug/g	81	0.050	0.15	<0.050	<0.050	0.13	0.050	7365808
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,1-Dichloroethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,2-Dichloroethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,1-Dichloroethylene	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
cis-1,2-Dichloroethylene	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
trans-1,2-Dichloroethylene	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,2-Dichloropropane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	<0.030	<0.030	<0.030	<0.030	0.030	7365808
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	<0.040	<0.040	<0.040	<0.040	0.040	7365808
Ethylbenzene	ug/g	0.027	0.020	<0.020	<0.020	<0.020	<0.020	0.020	7365808
Ethylene Dibromide	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Hexane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Methylene Chloride(Dichloromethane)	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7365808
Methyl Isobutyl Ketone	ug/g	<0.50	0.50	<0.50	<0.50	<0.50	<0.50	0.50	7365808
Methyl t-butyl ether (MTBE)	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Styrene	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,1,1,2-Tetrachloroethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,1,2,2-Tetrachloroethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Tetrachloroethylene	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Toluene	ug/g	0.026	0.020	<0.020	<0.020	<0.020	<0.020	0.020	7365808

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		PPT985		PPT986	PPT987	PPT988	PPT989		
Sampling Date		2021/05/14		2021/05/14	2021/05/14	2021/05/14	2021/05/14		
	UNITS	BH209 SS-3	RDL	MW210 SS-3	MW211 SS-3	MW212 SS-4	DUP-1	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
1,1,2-Trichloroethane	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Trichloroethylene	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	0.050	7365808
Vinyl Chloride	ug/g	<0.020	0.020	<0.020	<0.020	<0.020	<0.020	0.020	7365808
p+m-Xylene	ug/g	0.12	0.020	<0.020	<0.020	<0.020	<0.020	0.020	7365808
o-Xylene	ug/g	0.039	0.020	<0.020	<0.020	<0.020	<0.020	0.020	7365808
Total Xylenes	ug/g	0.16	0.020	<0.020	<0.020	<0.020	<0.020	0.020	7365808
F1 (C6-C10)	ug/g	29	10	<10	<10	<10	<10	10	7365808
F1 (C6-C10) - BTEX	ug/g	29	10	<10	<10	<10	<10	10	7365808
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	25	20	120	<10	<10	230	10	7367398
F3 (C16-C34 Hydrocarbons)	ug/g	710	100	1800	<50	<50	1700	50	7367398
F4 (C34-C50 Hydrocarbons)	ug/g	170	100	180	<50	<50	190	50	7367398
Reached Baseline at C50	ug/g	Yes		Yes	Yes	Yes	Yes		7367398
Surrogate Recovery (%)									
o-Terphenyl	%	98		92	97	96	94		7367398
4-Bromofluorobenzene	%	95		85	80	80	85		7365808
D10-o-Xylene	%	61		63	65	63	74		7365808
D4-1,2-Dichloroethane	%	120		119	119	118	118		7365808
D8-Toluene	%	93		95	96	97	96		7365808

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		PPT990		PPT992		PPT993		
Sampling Date		2021/05/17		2021/05/17		2021/05/17		
	UNITS	BH213 SS-4	QC Batch	MW214 SS-3	QC Batch	MW215 SS-3	RDL	QC Batch
Inorganics								
Moisture	%	20	7366337	26	7365985	27	1.0	7365985
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	7362697	<0.050	7362697	<0.050	0.050	7362697
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.50	7365808	<0.50	7365808	<0.50	0.50	7365808
Benzene	ug/g	<0.020	7365808	<0.020	7365808	<0.020	0.020	7365808
Bromodichloromethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Bromoform	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Bromomethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Carbon Tetrachloride	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Chlorobenzene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Chloroform	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Dibromochloromethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,2-Dichlorobenzene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,3-Dichlorobenzene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,4-Dichlorobenzene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,1-Dichloroethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,2-Dichloroethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,1-Dichloroethylene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
cis-1,2-Dichloroethylene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
trans-1,2-Dichloroethylene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,2-Dichloropropane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
cis-1,3-Dichloropropene	ug/g	<0.030	7365808	<0.030	7365808	<0.030	0.030	7365808
trans-1,3-Dichloropropene	ug/g	<0.040	7365808	<0.040	7365808	<0.040	0.040	7365808
Ethylbenzene	ug/g	<0.020	7365808	<0.020	7365808	<0.020	0.020	7365808
Ethylene Dibromide	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Hexane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Methylene Chloride(Dichloromethane)	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	7365808	<0.50	7365808	<0.50	0.50	7365808
Methyl Isobutyl Ketone	ug/g	<0.50	7365808	<0.50	7365808	<0.50	0.50	7365808
Methyl t-butyl ether (MTBE)	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Styrene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,1,1,2-Tetrachloroethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,1,2,2-Tetrachloroethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Tetrachloroethylene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Toluene	ug/g	<0.020	7365808	<0.020	7365808	<0.020	0.020	7365808

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		PPT990		PPT992		PPT993		
Sampling Date		2021/05/17		2021/05/17		2021/05/17		
	UNITS	BH213 SS-4	QC Batch	MW214 SS-3	QC Batch	MW215 SS-3	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
1,1,2-Trichloroethane	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Trichloroethylene	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	7365808	<0.050	7365808	<0.050	0.050	7365808
Vinyl Chloride	ug/g	<0.020	7365808	<0.020	7365808	<0.020	0.020	7365808
p+m-Xylene	ug/g	<0.020	7365808	<0.020	7365808	<0.020	0.020	7365808
o-Xylene	ug/g	<0.020	7365808	<0.020	7365808	<0.020	0.020	7365808
Total Xylenes	ug/g	<0.020	7365808	<0.020	7365808	<0.020	0.020	7365808
F1 (C6-C10)	ug/g	<10	7365808	<10	7365808	<10	10	7365808
F1 (C6-C10) - BTEX	ug/g	<10	7365808	<10	7365808	<10	10	7365808
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7367398	<10	7369875	<10	10	7367398
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7367398	<50	7369875	<50	50	7367398
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7367398	<50	7369875	<50	50	7367398
Reached Baseline at C50	ug/g	Yes	7367398	Yes	7369875	Yes		7367398
Surrogate Recovery (%)								
o-Terphenyl	%	100	7367398	90	7369875	95		7367398
4-Bromofluorobenzene	%	79	7365808	79	7365808	82		7365808
D10-o-Xylene	%	65	7365808	67	7365808	62		7365808
D4-1,2-Dichloroethane	%	117	7365808	117	7365808	117		7365808
D8-Toluene	%	97	7365808	98	7365808	98		7365808

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 SEMIVOLATILES PACKAGE (SOIL)

BV Labs ID		PPT985	PPT986		PPT987	PPT988		PPT989		
Sampling Date		2021/05/14	2021/05/14		2021/05/14	2021/05/14		2021/05/14		
	UNITS	BH209 SS-3	MW210 SS-3	RDL	MW211 SS-3	MW212 SS-4	RDL	DUP-1	RDL	QC Batch
Semivolatile Organics										
1,2,4-Trichlorobenzene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	<0.2	0.2	7367614
1-Methylnaphthalene	ug/g	<0.06	<0.06	0.06	<0.03	<0.03	0.03	<0.1	0.1	7367614
2,4,5-Trichlorophenol	ug/g	<0.2	<0.2	0.2	<0.08	<0.08	0.08	<0.3	0.3	7367614
2,4,6-Trichlorophenol	ug/g	<0.2	<0.2	0.2	<0.1	<0.1	0.1	<0.4	0.4	7367614
2,4-Dichlorophenol	ug/g	<0.2	<0.2	0.2	<0.1	<0.1	0.1	<0.4	0.4	7367614
2,4-Dimethylphenol	ug/g	<0.4	<0.4	0.4	<0.2	<0.2	0.2	<0.8	0.8	7367614
2,4-Dinitrophenol	ug/g	<1	<1	1	<0.5	<0.5	0.5	<2	2	7367614
2,4-Dinitrotoluene	ug/g	<0.2	<0.2	0.2	<0.1	<0.1	0.1	<0.4	0.4	7367614
2,6-Dinitrotoluene	ug/g	<0.2	<0.2	0.2	<0.1	<0.1	0.1	<0.4	0.4	7367614
2-Chlorophenol	ug/g	<0.2	<0.2	0.2	<0.08	<0.08	0.08	<0.3	0.3	7367614
2-Methylnaphthalene	ug/g	<0.06	<0.06	0.06	<0.03	<0.03	0.03	<0.1	0.1	7367614
3,3'-Dichlorobenzidine	ug/g	<1	<1	1	<0.5	<0.5	0.5	<2	2	7367614
Acenaphthene	ug/g	<0.06	<0.06	0.06	<0.03	<0.03	0.03	<0.1	0.1	7367614
Acenaphthylene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	<0.2	0.2	7367614
Anthracene	ug/g	<0.06	<0.06	0.06	<0.03	<0.03	0.03	<0.1	0.1	7367614
Benzo(a)anthracene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	0.2	0.2	7367614
Benzo(a)pyrene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	<0.2	0.2	7367614
Benzo(b/j)fluoranthene	ug/g	<0.2	<0.2	0.2	<0.1	<0.1	0.1	<0.4	0.4	7367614
Benzo(g,h,i)perylene	ug/g	<0.2	<0.2	0.2	<0.1	<0.1	0.1	<0.4	0.4	7367614
Benzo(k)fluoranthene	ug/g	<0.06	<0.06	0.06	<0.03	<0.03	0.03	0.1	0.1	7367614
Biphenyl	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	<0.2	0.2	7367614
Bis(2-chloroethyl)ether	ug/g	<0.4	<0.4	0.4	<0.2	<0.2	0.2	<0.8	0.8	7367614
Bis(2-chloroisopropyl)ether	ug/g	<0.2	<0.2	0.2	<0.1	<0.1	0.1	<0.4	0.4	7367614
Bis(2-ethylhexyl)phthalate	ug/g	<2	<2	2	<1	<1	1	<4	4	7367614
Chrysene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	<0.2	0.2	7367614
Dibenzo(a,h)anthracene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	<0.2	0.2	7367614
Diethyl phthalate	ug/g	<0.4	<0.4	0.4	<0.2	<0.2	0.2	<0.8	0.8	7367614
Dimethyl phthalate	ug/g	<0.4	<0.4	0.4	<0.2	<0.2	0.2	<0.8	0.8	7367614
Fluoranthene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	0.3	0.2	7367614
Fluorene	ug/g	<0.06	<0.06	0.06	<0.03	<0.03	0.03	<0.1	0.1	7367614
Indeno(1,2,3-cd)pyrene	ug/g	<0.2	<0.2	0.2	<0.08	<0.08	0.08	<0.4 (1)	0.4	7367614
Naphthalene	ug/g	0.10	<0.06	0.06	<0.03	<0.03	0.03	<0.1	0.1	7367614
p-Chloroaniline	ug/g	<0.4	<0.4	0.4	<0.2	<0.2	0.2	<0.8	0.8	7367614
Pentachlorophenol	ug/g	<0.2	<0.2	0.2	<0.1	<0.1	0.1	<0.4	0.4	7367614
Phenanthrene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	<0.2	0.2	7367614
Phenol	ug/g	<0.2	<0.2	0.2	<0.09	<0.09	0.09	<0.4	0.4	7367614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Detection Limit was raised due to matrix interferences.

O.REG 153 SEMIVOLATILES PACKAGE (SOIL)

BV Labs ID		PPT985	PPT986		PPT987	PPT988		PPT989		
Sampling Date		2021/05/14	2021/05/14		2021/05/14	2021/05/14		2021/05/14		
	UNITS	BH209 SS-3	MW210 SS-3	RDL	MW211 SS-3	MW212 SS-4	RDL	DUP-1	RDL	QC Batch
Pyrene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	0.3	0.2	7367614
Acridine	ug/g	<0.4	<0.4	0.4	<0.2	<0.2	0.2	<0.8	0.8	7367614
Benzo(e)pyrene	ug/g	<0.1	<0.1	0.1	<0.05	<0.05	0.05	<0.2	0.2	7367614
Calculated Parameters										
2,4- & 2,6-Dinitrotoluene	ug/g	<0.28	<0.28	0.28	<0.14	<0.14	0.14	<0.57	0.57	7363770
Methylnaphthalene, 2-(1-)	ug/g	<0.085	<0.085	0.085	<0.042	<0.042	0.042	<0.17	0.17	7363768
Surrogate Recovery (%)										
2,4,6-Tribromophenol	%	78	67		70	68		44 (1)		7367614
2-Fluorobiphenyl	%	72	70		69	66		52		7367614
D14-Terphenyl (FS)	%	87	83		87	86		53		7367614
D5-Nitrobenzene	%	70	76		90	89		55		7367614

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

O.REG 558 TCLP BENZO(A)PYRENE

BV Labs ID		PSV540		
Sampling Date		2021/05/17		
	UNITS	TCLP	RDL	QC Batch
Polyaromatic Hydrocarbons				
Leachable Benzo(a)pyrene	ug/L	<0.10	0.10	7393808
Surrogate Recovery (%)				
Leachable D10-Anthracene	%	115		7393808
Leachable D14-Terphenyl (FS)	%	107		7393808
Leachable D8-Acenaphthylene	%	102		7393808

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 558 TCLP INORGANICS PACKAGE (SOIL)

BV Labs ID		PSV540		
Sampling Date		2021/05/17		
	UNITS	TCLP	RDL	QC Batch
Inorganics				
Leachable Fluoride (F-)	mg/L	0.41	0.10	7392840
Leachable WAD Cyanide (Free)	mg/L	<0.010	0.010	7392855
Leachable Nitrite (N)	mg/L	<0.10	0.10	7392834
Leachable Nitrate (N)	mg/L	<1.0	1.0	7392834
Leachable Nitrate + Nitrite (N)	mg/L	<1.0	1.0	7392834
Metals				
Leachable Arsenic (As)	mg/L	<0.2	0.2	7392669
Leachable Barium (Ba)	mg/L	0.8	0.2	7392669
Leachable Boron (B)	mg/L	0.2	0.1	7392669
Leachable Cadmium (Cd)	mg/L	<0.05	0.05	7392669
Leachable Chromium (Cr)	mg/L	<0.1	0.1	7392669
Leachable Lead (Pb)	mg/L	<0.1	0.1	7392669
Leachable Mercury (Hg)	mg/L	<0.001	0.001	7392669
Leachable Selenium (Se)	mg/L	<0.1	0.1	7392669
Leachable Silver (Ag)	mg/L	<0.01	0.01	7392669
Leachable Uranium (U)	mg/L	<0.01	0.01	7392669

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TCLP LEACHATE PREPARATION (SOIL)

BV Labs ID		PSV540		
Sampling Date		2021/05/17		
	UNITS	TCLP	RDL	QC Batch
Inorganics				
Final pH	pH	6.20		7390181
Initial pH	pH	8.57		7390181
TCLP - % Solids	%	100	0.2	7390177
TCLP Extraction Fluid	N/A	FLUID 1		7390180

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 558 TCLP PCBS (SOIL)

BV Labs ID		PSV540		
Sampling Date		2021/05/17		
	UNITS	TCLP	RDL	QC Batch
PCBs				
Leachable Aroclor 1016	ug/L	<3.0	3.0	7393865
Leachable Aroclor 1221	ug/L	<3.0	3.0	7393865
Leachable Aroclor 1242	ug/L	<3.0	3.0	7393865
Leachable Aroclor 1248	ug/L	<3.0	3.0	7393865
Leachable Aroclor 1254	ug/L	<3.0	3.0	7393865
Leachable Aroclor 1260	ug/L	<3.0	3.0	7393865
Leachable Total PCB	ug/L	<3.0	3.0	7393865
Surrogate Recovery (%)				
Leachable Decachlorobiphenyl	%	118		7393865

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 558 TCLP VOCS BY HS (SOIL)

BV Labs ID		PSV540		
Sampling Date		2021/05/17		
	UNITS	TCLP	RDL	QC Batch
Charge/Prep Analysis				
Amount Extracted (Wet Weight) (g)	N/A	23	N/A	7392906
Volatile Organics				
Leachable Benzene	mg/L	<0.020	0.020	7394814
Leachable Carbon Tetrachloride	mg/L	<0.020	0.020	7394814
Leachable Chlorobenzene	mg/L	<0.020	0.020	7394814
Leachable Chloroform	mg/L	<0.020	0.020	7394814
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	0.050	7394814
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	0.050	7394814
Leachable 1,2-Dichloroethane	mg/L	<0.050	0.050	7394814
Leachable 1,1-Dichloroethylene	mg/L	<0.020	0.020	7394814
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	0.20	7394814
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	1.0	7394814
Leachable Tetrachloroethylene	mg/L	<0.020	0.020	7394814
Leachable Trichloroethylene	mg/L	<0.020	0.020	7394814
Leachable Vinyl Chloride	mg/L	<0.020	0.020	7394814
Surrogate Recovery (%)				
Leachable 4-Bromofluorobenzene	%	100		7394814
Leachable D4-1,2-Dichloroethane	%	96		7394814
Leachable D8-Toluene	%	101		7394814

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

RESULTS OF ANALYSES OF SOIL

BV Labs ID		PPT988	PPT990	
Sampling Date		2021/05/14	2021/05/17	
	UNITS	MW212 SS-4	BH213 SS-4	QC Batch
Inorganics				
Available (CaCl2) pH	pH	7.35	7.58	7371562
QC Batch = Quality Control Batch				

TEST SUMMARY

BV Labs ID: PPT984
Sample ID: BH209 SS-1
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7368807	2021/05/25	2021/05/26	Daniel Teclu
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369881	2021/05/25	2021/05/26	Mitesh Raj
pH CaCl2 EXTRACT	AT	7371562	2021/05/26	2021/05/26	Neil Dassanayake
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT984 Dup
Sample ID: BH209 SS-1
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7368807	2021/05/25	2021/05/26	Daniel Teclu

BV Labs ID: PPT985
Sample ID: BH209 SS-3
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/27	Automated Statchk
ABN Compounds in soil by GC/MS	GC/MS	7367614	2021/05/22	2021/05/25	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/23	Automated Statchk
Dinitrotoluene Sum	CALC	7363770	2021/05/27	2021/05/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365808	N/A	2021/05/23	Mariana Cojocar

BV Labs ID: PPT986
Sample ID: MW210 SS-3
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/27	Automated Statchk
ABN Compounds in soil by GC/MS	GC/MS	7367614	2021/05/22	2021/05/25	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/23	Automated Statchk
Dinitrotoluene Sum	CALC	7363770	2021/05/27	2021/05/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365808	N/A	2021/05/23	Mariana Cojocar

TEST SUMMARY

BV Labs ID: PPT987
Sample ID: MW211 SS-3
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/27	Automated Statchk
ABN Compounds in soil by GC/MS	GC/MS	7367614	2021/05/22	2021/05/25	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/23	Automated Statchk
Dinitrotoluene Sum	CALC	7363770	2021/05/27	2021/05/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365808	N/A	2021/05/23	Mariana Cojocar

BV Labs ID: PPT988
Sample ID: MW212 SS-4
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/27	Automated Statchk
ABN Compounds in soil by GC/MS	GC/MS	7367614	2021/05/22	2021/05/25	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/23	Automated Statchk
Dinitrotoluene Sum	CALC	7363770	2021/05/27	2021/05/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
pH CaCl2 EXTRACT	AT	7371562	2021/05/26	2021/05/26	Neil Dassanayake
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365808	N/A	2021/05/23	Mariana Cojocar

BV Labs ID: PPT989
Sample ID: DUP-1
Matrix: Soil

Collected: 2021/05/14
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/27	Automated Statchk
ABN Compounds in soil by GC/MS	GC/MS	7367614	2021/05/22	2021/05/25	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/23	Automated Statchk
Dinitrotoluene Sum	CALC	7363770	2021/05/27	2021/05/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365808	N/A	2021/05/23	Mariana Cojocar

BV Labs ID: PPT990
Sample ID: BH213 SS-4
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369881	2021/05/25	2021/05/26	Mitesh Raj
pH CaCl2 EXTRACT	AT	7371562	2021/05/26	2021/05/26	Neil Dassanayake

TEST SUMMARY

BV Labs ID: PPT990
Sample ID: BH213 SS-4
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365808	N/A	2021/05/23	Mariana Cojocar

BV Labs ID: PPT991
Sample ID: MW214 SS-1
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
Hot Water Extractable Boron	ICP	7368939	2021/05/25	2021/05/26	Jolly John
Conductivity	AT	7371338	2021/05/26	2021/05/26	Khushbu Vijay kumar Patel
Hexavalent Chromium in Soil by IC	IC/SPEC	7371056	2021/05/26	2021/05/26	Violeta Porcila
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7368764	N/A	2021/05/25	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Acid Extractable Metals by ICPMS	ICP/MS	7368807	2021/05/25	2021/05/26	Daniel Teclu
Moisture	BAL	7366337	N/A	2021/05/21	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369881	2021/05/25	2021/05/26	Mitesh Raj
Sodium Adsorption Ratio (SAR)	CALC/MET	7362700	N/A	2021/05/27	Automated Statchk

BV Labs ID: PPT992
Sample ID: MW214 SS-3
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7369875	2021/05/25	2021/05/25	Ravinder Gaidhu
Moisture	BAL	7365985	N/A	2021/05/21	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369881	2021/05/25	2021/05/26	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365808	N/A	2021/05/23	Mariana Cojocar

BV Labs ID: PPT993
Sample ID: MW215 SS-3
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7363768	N/A	2021/05/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7362697	N/A	2021/05/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7367398	2021/05/22	2021/05/24	(Kent) Maolin Li
Moisture	BAL	7365985	N/A	2021/05/21	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7369881	2021/05/25	2021/05/26	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7365808	N/A	2021/05/23	Mariana Cojocar

BV Labs Job #: C1D6669
Report Date: 2021/06/09

Pinchin Ltd
Client Project #: 267991.007
Sampler Initials: MK

TEST SUMMARY

BV Labs ID: PSV540
Sample ID: TCLP
Matrix: Soil

Collected: 2021/05/17
Shipped:
Received: 2021/05/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7392855	N/A	2021/06/07	Aditiben Patel
Fluoride by ISE in Leachates	ISE	7392840	2021/06/07	2021/06/07	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7392669	2021/06/07	2021/06/07	Azita Fazaeli
Nitrate(NO3) + Nitrite(NO2) in Leachate	LACH	7392834	N/A	2021/06/08	Chandra Nandlal
PAH Compounds in Leachate by GC/MS (SIM)	GC/MS	7393808	2021/06/07	2021/06/08	Mitesh Raj
Polychlorinated Biphenyl in Leachate	GC/ECD	7393865	2021/06/07	2021/06/08	Dawn Howard
TCLP - % Solids	BAL	7390177	2021/06/04	2021/06/05	Jian (Ken) Wang
TCLP - Extraction Fluid		7390180	N/A	2021/06/05	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7390181	N/A	2021/06/05	Jian (Ken) Wang
TCLP Zero Headspace Extraction		7392906	2021/06/07	2021/06/08	Daruish Karimi
VOCs in ZHE Leachates	GC/MS	7394814	2021/06/08	2021/06/08	Chandni Khawas

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.7°C

Cooler custody seal was present and intact.

Revised Report (2021/06/09): Composite TCLP testing included as per client request .

Sample PPT984 [BH209 SS-1] : PAH analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PPT985 [BH209 SS-3] : F2- F4 Analysis: Detection limits were adjusted for high moisture content.

ABN Analysis: Detection limits were adjusted for high moisture content.

Sample PPT986 [MW210 SS-3] : ABN Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PPT989 [DUP-1] : ABN Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly. Detection limits were also adjusted for high moisture content.

Sample PPT991 [MW214 SS-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PSV540 [TCLP] : TCLP VOCs Extraction: () samples bags, all containing headspace, were composited prior to extraction. Analysis was performed with client's consent.

TCLP VOCs Extraction: Sample extracted past holding time. Analysis was performed past sample holding time. This may increase the variability associated with these results. Reported result in a minimum concentration and is not acceptable for establishing that the waste does not exceed the regulatory level.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7365808	RAZ	Matrix Spike	4-Bromofluorobenzene	2021/05/22		102	%	60 - 140
			D10-o-Xylene	2021/05/22		78	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/22		109	%	60 - 140
			D8-Toluene	2021/05/22		105	%	60 - 140
			Acetone (2-Propanone)	2021/05/22		108	%	60 - 140
			Benzene	2021/05/22		90	%	60 - 140
			Bromodichloromethane	2021/05/22		98	%	60 - 140
			Bromoform	2021/05/22		98	%	60 - 140
			Bromomethane	2021/05/22		94	%	60 - 140
			Carbon Tetrachloride	2021/05/22		97	%	60 - 140
			Chlorobenzene	2021/05/22		94	%	60 - 140
			Chloroform	2021/05/22		96	%	60 - 140
			Dibromochloromethane	2021/05/22		95	%	60 - 140
			1,2-Dichlorobenzene	2021/05/22		96	%	60 - 140
			1,3-Dichlorobenzene	2021/05/22		97	%	60 - 140
			1,4-Dichlorobenzene	2021/05/22		93	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2021/05/22		81	%	60 - 140
			1,1-Dichloroethane	2021/05/22		94	%	60 - 140
			1,2-Dichloroethane	2021/05/22		97	%	60 - 140
			1,1-Dichloroethylene	2021/05/22		98	%	60 - 140
			cis-1,2-Dichloroethylene	2021/05/22		96	%	60 - 140
			trans-1,2-Dichloroethylene	2021/05/22		93	%	60 - 140
			1,2-Dichloropropane	2021/05/22		95	%	60 - 140
			cis-1,3-Dichloropropene	2021/05/22		90	%	60 - 140
			trans-1,3-Dichloropropene	2021/05/22		103	%	60 - 140
			Ethylbenzene	2021/05/22		86	%	60 - 140
			Ethylene Dibromide	2021/05/22		95	%	60 - 140
			Hexane	2021/05/22		95	%	60 - 140
			Methylene Chloride(Dichloromethane)	2021/05/22		107	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2021/05/22		110	%	60 - 140
			Methyl Isobutyl Ketone	2021/05/22		101	%	60 - 140
			Methyl t-butyl ether (MTBE)	2021/05/22		88	%	60 - 140
			Styrene	2021/05/22		83	%	60 - 140
			1,1,1,2-Tetrachloroethane	2021/05/22		98	%	60 - 140
			1,1,2,2-Tetrachloroethane	2021/05/22		96	%	60 - 140
			Tetrachloroethylene	2021/05/22		88	%	60 - 140
			Toluene	2021/05/22		90	%	60 - 140
			1,1,1-Trichloroethane	2021/05/22		101	%	60 - 140
			1,1,2-Trichloroethane	2021/05/22		102	%	60 - 140
			Trichloroethylene	2021/05/22		96	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2021/05/22		95	%	60 - 140
			Vinyl Chloride	2021/05/22		93	%	60 - 140
			p+m-Xylene	2021/05/22		92	%	60 - 140
			o-Xylene	2021/05/22		89	%	60 - 140
			F1 (C6-C10)	2021/05/22		76	%	60 - 140
7365808	RAZ	Spiked Blank	4-Bromofluorobenzene	2021/05/22		100	%	60 - 140
			D10-o-Xylene	2021/05/22		91	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/22		120	%	60 - 140
			D8-Toluene	2021/05/22		108	%	60 - 140
			Acetone (2-Propanone)	2021/05/22		125	%	60 - 140
			Benzene	2021/05/22		102	%	60 - 130
			Bromodichloromethane	2021/05/22		115	%	60 - 130
			Bromoform	2021/05/22		113	%	60 - 130
			Bromomethane	2021/05/22		108	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Carbon Tetrachloride	2021/05/22		111	%	60 - 130
			Chlorobenzene	2021/05/22		100	%	60 - 130
			Chloroform	2021/05/22		110	%	60 - 130
			Dibromochloromethane	2021/05/22		109	%	60 - 130
			1,2-Dichlorobenzene	2021/05/22		103	%	60 - 130
			1,3-Dichlorobenzene	2021/05/22		102	%	60 - 130
			1,4-Dichlorobenzene	2021/05/22		96	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2021/05/22		94	%	60 - 140
			1,1-Dichloroethane	2021/05/22		110	%	60 - 130
			1,2-Dichloroethane	2021/05/22		114	%	60 - 130
			1,1-Dichloroethylene	2021/05/22		109	%	60 - 130
			cis-1,2-Dichloroethylene	2021/05/22		110	%	60 - 130
			trans-1,2-Dichloroethylene	2021/05/22		107	%	60 - 130
			1,2-Dichloropropane	2021/05/22		108	%	60 - 130
			cis-1,3-Dichloropropene	2021/05/22		93	%	60 - 130
			trans-1,3-Dichloropropene	2021/05/22		106	%	60 - 130
			Ethylbenzene	2021/05/22		86	%	60 - 130
			Ethylene Dibromide	2021/05/22		108	%	60 - 130
			Hexane	2021/05/22		106	%	60 - 130
			Methylene Chloride(Dichloromethane)	2021/05/22		128	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/05/22		122	%	60 - 140
			Methyl Isobutyl Ketone	2021/05/22		111	%	60 - 130
			Methyl t-butyl ether (MTBE)	2021/05/22		93	%	60 - 130
			Styrene	2021/05/22		87	%	60 - 130
			1,1,1,2-Tetrachloroethane	2021/05/22		112	%	60 - 130
			1,1,2,2-Tetrachloroethane	2021/05/22		112	%	60 - 130
			Tetrachloroethylene	2021/05/22		98	%	60 - 130
			Toluene	2021/05/22		98	%	60 - 130
			1,1,1-Trichloroethane	2021/05/22		115	%	60 - 130
			1,1,2-Trichloroethane	2021/05/22		119	%	60 - 130
			Trichloroethylene	2021/05/22		107	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2021/05/22		109	%	60 - 130
			Vinyl Chloride	2021/05/22		108	%	60 - 130
			p+m-Xylene	2021/05/22		91	%	60 - 130
			o-Xylene	2021/05/22		92	%	60 - 130
			F1 (C6-C10)	2021/05/22		96	%	80 - 120
7365808	RAZ	Method Blank	4-Bromofluorobenzene	2021/05/22		83	%	60 - 140
			D10-o-Xylene	2021/05/22		62	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/22		124	%	60 - 140
			D8-Toluene	2021/05/22		104	%	60 - 140
			Acetone (2-Propanone)	2021/05/22	<0.50		ug/g	
			Benzene	2021/05/22	<0.020		ug/g	
			Bromodichloromethane	2021/05/22	<0.050		ug/g	
			Bromoform	2021/05/22	<0.050		ug/g	
			Bromomethane	2021/05/22	<0.050		ug/g	
			Carbon Tetrachloride	2021/05/22	<0.050		ug/g	
			Chlorobenzene	2021/05/22	<0.050		ug/g	
			Chloroform	2021/05/22	<0.050		ug/g	
			Dibromochloromethane	2021/05/22	<0.050		ug/g	
			1,2-Dichlorobenzene	2021/05/22	<0.050		ug/g	
			1,3-Dichlorobenzene	2021/05/22	<0.050		ug/g	
			1,4-Dichlorobenzene	2021/05/22	<0.050		ug/g	
			Dichlorodifluoromethane (FREON 12)	2021/05/22	<0.050		ug/g	
			1,1-Dichloroethane	2021/05/22	<0.050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichloroethane	2021/05/22	<0.050		ug/g	
			1,1-Dichloroethylene	2021/05/22	<0.050		ug/g	
			cis-1,2-Dichloroethylene	2021/05/22	<0.050		ug/g	
			trans-1,2-Dichloroethylene	2021/05/22	<0.050		ug/g	
			1,2-Dichloropropane	2021/05/22	<0.050		ug/g	
			cis-1,3-Dichloropropene	2021/05/22	<0.030		ug/g	
			trans-1,3-Dichloropropene	2021/05/22	<0.040		ug/g	
			Ethylbenzene	2021/05/22	<0.020		ug/g	
			Ethylene Dibromide	2021/05/22	<0.050		ug/g	
			Hexane	2021/05/22	<0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2021/05/22	<0.050		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2021/05/22	<0.50		ug/g	
			Methyl Isobutyl Ketone	2021/05/22	<0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2021/05/22	<0.050		ug/g	
			Styrene	2021/05/22	<0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2021/05/22	<0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2021/05/22	<0.050		ug/g	
			Tetrachloroethylene	2021/05/22	<0.050		ug/g	
			Toluene	2021/05/22	<0.020		ug/g	
			1,1,1-Trichloroethane	2021/05/22	<0.050		ug/g	
			1,1,2-Trichloroethane	2021/05/22	<0.050		ug/g	
			Trichloroethylene	2021/05/22	<0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2021/05/22	<0.050		ug/g	
			Vinyl Chloride	2021/05/22	<0.020		ug/g	
			p+m-Xylene	2021/05/22	<0.020		ug/g	
			o-Xylene	2021/05/22	<0.020		ug/g	
			Total Xylenes	2021/05/22	<0.020		ug/g	
			F1 (C6-C10)	2021/05/22	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/05/22	<10		ug/g	
7365808	RAZ	RPD	Acetone (2-Propanone)	2021/05/23	NC		%	50
			Benzene	2021/05/23	NC		%	50
			Bromodichloromethane	2021/05/23	NC		%	50
			Bromoform	2021/05/23	NC		%	50
			Bromomethane	2021/05/23	NC		%	50
			Carbon Tetrachloride	2021/05/23	NC		%	50
			Chlorobenzene	2021/05/23	NC		%	50
			Chloroform	2021/05/23	NC		%	50
			Dibromochloromethane	2021/05/23	NC		%	50
			1,2-Dichlorobenzene	2021/05/23	NC		%	50
			1,3-Dichlorobenzene	2021/05/23	NC		%	50
			1,4-Dichlorobenzene	2021/05/23	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2021/05/23	NC		%	50
			1,1-Dichloroethane	2021/05/23	NC		%	50
			1,2-Dichloroethane	2021/05/23	NC		%	50
			1,1-Dichloroethylene	2021/05/23	NC		%	50
			cis-1,2-Dichloroethylene	2021/05/23	NC		%	50
			trans-1,2-Dichloroethylene	2021/05/23	NC		%	50
			1,2-Dichloropropane	2021/05/23	NC		%	50
			cis-1,3-Dichloropropene	2021/05/23	NC		%	50
			trans-1,3-Dichloropropene	2021/05/23	NC		%	50
			Ethylbenzene	2021/05/23	NC		%	50
			Ethylene Dibromide	2021/05/23	NC		%	50
			Hexane	2021/05/23	NC		%	50
			Methylene Chloride(Dichloromethane)	2021/05/23	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl Ethyl Ketone (2-Butanone)	2021/05/23	NC		%	50
			Methyl Isobutyl Ketone	2021/05/23	NC		%	50
			Methyl t-butyl ether (MTBE)	2021/05/23	NC		%	50
			Styrene	2021/05/23	NC		%	50
			1,1,1,2-Tetrachloroethane	2021/05/23	NC		%	50
			1,1,2,2-Tetrachloroethane	2021/05/23	NC		%	50
			Tetrachloroethylene	2021/05/23	NC		%	50
			Toluene	2021/05/23	NC		%	50
			1,1,1-Trichloroethane	2021/05/23	NC		%	50
			1,1,2-Trichloroethane	2021/05/23	NC		%	50
			Trichloroethylene	2021/05/23	NC		%	50
			Trichlorofluoromethane (FREON 11)	2021/05/23	NC		%	50
			Vinyl Chloride	2021/05/23	NC		%	50
			p+m-Xylene	2021/05/23	NC		%	50
			o-Xylene	2021/05/23	NC		%	50
			Total Xylenes	2021/05/23	NC		%	50
			F1 (C6-C10)	2021/05/23	NC		%	30
			F1 (C6-C10) - BTEX	2021/05/23	NC		%	30
7365985	MUC	RPD	Moisture	2021/05/21	3.1		%	20
7366337	MYG	RPD	Moisture	2021/05/21	0.28		%	20
7367398	KLI	Matrix Spike	o-Terphenyl	2021/05/24		99	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/24		115	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/05/24		116	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/05/24		114	%	50 - 130
7367398	KLI	Spiked Blank	o-Terphenyl	2021/05/24		97	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/24		116	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/05/24		118	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/05/24		116	%	80 - 120
7367398	KLI	Method Blank	o-Terphenyl	2021/05/24		90	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/24	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/05/24	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/05/24	<50		ug/g	
7367398	KLI	RPD	F2 (C10-C16 Hydrocarbons)	2021/05/24	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/05/24	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/05/24	NC		%	30
7367614	MA	Matrix Spike	2,4,6-Tribromophenol	2021/05/25		71	%	50 - 130
			2-Fluorobiphenyl	2021/05/25		78	%	50 - 130
			D14-Terphenyl (FS)	2021/05/25		84	%	50 - 130
			D5-Nitrobenzene	2021/05/25		91	%	50 - 130
			1,2,4-Trichlorobenzene	2021/05/25		82	%	50 - 130
			1-Methylnaphthalene	2021/05/25		89	%	50 - 130
			2,4,5-Trichlorophenol	2021/05/25		86	%	50 - 130
			2,4,6-Trichlorophenol	2021/05/25		83	%	50 - 130
			2,4-Dichlorophenol	2021/05/25		97	%	50 - 130
			2,4-Dimethylphenol	2021/05/25		84	%	30 - 130
			2,4-Dinitrophenol	2021/05/25		3.5 (1)	%	30 - 130
			2,4-Dinitrotoluene	2021/05/25		66	%	50 - 130
			2,6-Dinitrotoluene	2021/05/25		59	%	50 - 130
			2-Chlorophenol	2021/05/25		88	%	50 - 130
			2-Methylnaphthalene	2021/05/25		83	%	50 - 130
			3,3'-Dichlorobenzidine	2021/05/25		52	%	30 - 130
			Acenaphthene	2021/05/25		87	%	50 - 130
			Acenaphthylene	2021/05/25		84	%	50 - 130
			Anthracene	2021/05/25		91	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(a)anthracene	2021/05/25		96	%	50 - 130
			Benzo(a)pyrene	2021/05/25		76	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/25		95	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/25		64	%	50 - 130
			Benzo(k)fluoranthene	2021/05/25		100	%	50 - 130
			Biphenyl	2021/05/25		83	%	50 - 130
			Bis(2-chloroethyl)ether	2021/05/25		86	%	50 - 130
			Bis(2-chloroisopropyl)ether	2021/05/25		69	%	50 - 130
			Bis(2-ethylhexyl)phthalate	2021/05/25		90	%	50 - 130
			Chrysene	2021/05/25		94	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/25		73	%	50 - 130
			Diethyl phthalate	2021/05/25		77	%	50 - 130
			Dimethyl phthalate	2021/05/25		79	%	50 - 130
			Fluoranthene	2021/05/25		96	%	50 - 130
			Fluorene	2021/05/25		85	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/25		68	%	50 - 130
			Naphthalene	2021/05/25		93	%	50 - 130
			p-Chloroaniline	2021/05/25		62	%	30 - 130
			Pentachlorophenol	2021/05/25		39 (1)	%	50 - 130
			Phenanthrene	2021/05/25		95	%	50 - 130
			Phenol	2021/05/25		99	%	30 - 130
			Pyrene	2021/05/25		102	%	50 - 130
			Acridine	2021/05/25		83	%	30 - 130
			Benzo(e)pyrene	2021/05/25		98	%	30 - 130
7367614	MA	Spiked Blank	2,4,6-Tribromophenol	2021/05/25		77	%	50 - 130
			2-Fluorobiphenyl	2021/05/25		84	%	50 - 130
			D14-Terphenyl (FS)	2021/05/25		82	%	50 - 130
			D5-Nitrobenzene	2021/05/25		96	%	50 - 130
			1,2,4-Trichlorobenzene	2021/05/25		88	%	50 - 130
			1-Methylnaphthalene	2021/05/25		94	%	50 - 130
			2,4,5-Trichlorophenol	2021/05/25		89	%	50 - 130
			2,4,6-Trichlorophenol	2021/05/25		87	%	50 - 130
			2,4-Dichlorophenol	2021/05/25		103	%	50 - 130
			2,4-Dimethylphenol	2021/05/25		91	%	30 - 130
			2,4-Dinitrophenol	2021/05/25		40	%	30 - 130
			2,4-Dinitrotoluene	2021/05/25		76	%	50 - 130
			2,6-Dinitrotoluene	2021/05/25		89	%	50 - 130
			2-Chlorophenol	2021/05/25		90	%	50 - 130
			2-Methylnaphthalene	2021/05/25		89	%	50 - 130
			3,3'-Dichlorobenzidine	2021/05/25		60	%	30 - 130
			Acenaphthene	2021/05/25		91	%	50 - 130
			Acenaphthylene	2021/05/25		90	%	50 - 130
			Anthracene	2021/05/25		90	%	50 - 130
			Benzo(a)anthracene	2021/05/25		91	%	50 - 130
			Benzo(a)pyrene	2021/05/25		96	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/25		98	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/25		72	%	50 - 130
			Benzo(k)fluoranthene	2021/05/25		109	%	50 - 130
			Biphenyl	2021/05/25		89	%	50 - 130
			Bis(2-chloroethyl)ether	2021/05/25		85	%	50 - 130
			Bis(2-chloroisopropyl)ether	2021/05/25		71	%	50 - 130
			Bis(2-ethylhexyl)phthalate	2021/05/25		73	%	50 - 130
			Chrysene	2021/05/25		93	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/25		79	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Diethyl phthalate	2021/05/25		76	%	50 - 130
			Dimethyl phthalate	2021/05/25		80	%	50 - 130
			Fluoranthene	2021/05/25		94	%	50 - 130
			Fluorene	2021/05/25		86	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/25		72	%	50 - 130
			Naphthalene	2021/05/25		95	%	50 - 130
			p-Chloroaniline	2021/05/25		68	%	30 - 130
			Pentachlorophenol	2021/05/25		71	%	50 - 130
			Phenanthrene	2021/05/25		92	%	50 - 130
			Phenol	2021/05/25		103	%	30 - 130
			Pyrene	2021/05/25		100	%	50 - 130
			Acridine	2021/05/25		71	%	30 - 130
			Benzo(e)pyrene	2021/05/25		99	%	30 - 130
7367614	MA	Method Blank	2,4,6-Tribromophenol	2021/05/25		56	%	50 - 130
			2-Fluorobiphenyl	2021/05/25		86	%	50 - 130
			D14-Terphenyl (FS)	2021/05/25		85	%	50 - 130
			D5-Nitrobenzene	2021/05/25		97	%	50 - 130
			1,2,4-Trichlorobenzene	2021/05/25	<0.05		ug/g	
			1-Methylnaphthalene	2021/05/25	<0.03		ug/g	
			2,4,5-Trichlorophenol	2021/05/25	<0.08		ug/g	
			2,4,6-Trichlorophenol	2021/05/25	<0.1		ug/g	
			2,4-Dichlorophenol	2021/05/25	<0.1		ug/g	
			2,4-Dimethylphenol	2021/05/25	<0.2		ug/g	
			2,4-Dinitrophenol	2021/05/25	<0.5		ug/g	
			2,4-Dinitrotoluene	2021/05/25	<0.1		ug/g	
			2,6-Dinitrotoluene	2021/05/25	<0.1		ug/g	
			2-Chlorophenol	2021/05/25	<0.08		ug/g	
			2-Methylnaphthalene	2021/05/25	<0.03		ug/g	
			3,3'-Dichlorobenzidine	2021/05/25	<0.5		ug/g	
			Acenaphthene	2021/05/25	<0.03		ug/g	
			Acenaphthylene	2021/05/25	<0.05		ug/g	
			Anthracene	2021/05/25	<0.03		ug/g	
			Benzo(a)anthracene	2021/05/25	<0.05		ug/g	
			Benzo(a)pyrene	2021/05/25	<0.05		ug/g	
			Benzo(b/j)fluoranthene	2021/05/25	<0.1		ug/g	
			Benzo(g,h,i)perylene	2021/05/25	<0.1		ug/g	
			Benzo(k)fluoranthene	2021/05/25	<0.03		ug/g	
			Biphenyl	2021/05/25	<0.05		ug/g	
			Bis(2-chloroethyl)ether	2021/05/25	<0.2		ug/g	
			Bis(2-chloroisopropyl)ether	2021/05/25	<0.1		ug/g	
			Bis(2-ethylhexyl)phthalate	2021/05/25	<1		ug/g	
			Chrysene	2021/05/25	<0.05		ug/g	
			Dibenzo(a,h)anthracene	2021/05/25	<0.05		ug/g	
			Diethyl phthalate	2021/05/25	<0.2		ug/g	
			Dimethyl phthalate	2021/05/25	<0.2		ug/g	
			Fluoranthene	2021/05/25	<0.05		ug/g	
			Fluorene	2021/05/25	<0.03		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/05/25	<0.08		ug/g	
			Naphthalene	2021/05/25	<0.03		ug/g	
			p-Chloroaniline	2021/05/25	<0.2		ug/g	
			Pentachlorophenol	2021/05/25	<0.1		ug/g	
			Phenanthrene	2021/05/25	<0.05		ug/g	
			Phenol	2021/05/25	<0.09		ug/g	
			Pyrene	2021/05/25	<0.05		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acridine	2021/05/25	<0.2		ug/g	
			Benzo(e)pyrene	2021/05/25	<0.05		ug/g	
7367614	MA	RPD	1,2,4-Trichlorobenzene	2021/05/25	NC		%	40
			1-Methylnaphthalene	2021/05/25	NC		%	40
			2,4,5-Trichlorophenol	2021/05/25	NC		%	40
			2,4,6-Trichlorophenol	2021/05/25	NC		%	40
			2,4-Dichlorophenol	2021/05/25	NC		%	40
			2,4-Dimethylphenol	2021/05/25	NC		%	40
			2,4-Dinitrophenol	2021/05/25	NC		%	40
			2,4-Dinitrotoluene	2021/05/25	NC		%	40
			2,6-Dinitrotoluene	2021/05/25	NC		%	40
			2-Chlorophenol	2021/05/25	NC		%	40
			2-Methylnaphthalene	2021/05/25	NC		%	40
			3,3'-Dichlorobenzidine	2021/05/25	NC		%	40
			Acenaphthene	2021/05/25	NC		%	40
			Acenaphthylene	2021/05/25	NC		%	40
			Anthracene	2021/05/25	NC		%	40
			Benzo(a)anthracene	2021/05/25	NC		%	40
			Benzo(a)pyrene	2021/05/25	NC		%	40
			Benzo(b/j)fluoranthene	2021/05/25	NC		%	40
			Benzo(g,h,i)perylene	2021/05/25	NC		%	40
			Benzo(k)fluoranthene	2021/05/25	NC		%	40
			Biphenyl	2021/05/25	NC		%	40
			Bis(2-chloroethyl)ether	2021/05/25	NC		%	40
			Bis(2-chloroisopropyl)ether	2021/05/25	NC		%	40
			Bis(2-ethylhexyl)phthalate	2021/05/25	NC		%	40
			Chrysene	2021/05/25	NC		%	40
			Dibenzo(a,h)anthracene	2021/05/25	NC		%	40
			Diethyl phthalate	2021/05/25	NC		%	40
			Dimethyl phthalate	2021/05/25	NC		%	40
			Fluoranthene	2021/05/25	NC		%	40
			Fluorene	2021/05/25	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/05/25	NC		%	40
			Naphthalene	2021/05/25	NC		%	40
			p-Chloroaniline	2021/05/25	NC		%	40
			Pentachlorophenol	2021/05/25	NC		%	40
			Phenanthrene	2021/05/25	NC		%	40
			Phenol	2021/05/25	NC		%	40
			Pyrene	2021/05/25	NC		%	40
7368764	H_W	Matrix Spike	1,4-Difluorobenzene	2021/05/25		97	%	60 - 140
			4-Bromofluorobenzene	2021/05/25		96	%	60 - 140
			D10-o-Xylene	2021/05/25		96	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/25		96	%	60 - 140
			Benzene	2021/05/25		91	%	50 - 140
			Toluene	2021/05/25		93	%	50 - 140
			Ethylbenzene	2021/05/25		105	%	50 - 140
			o-Xylene	2021/05/25		104	%	50 - 140
			p+m-Xylene	2021/05/25		101	%	50 - 140
			F1 (C6-C10)	2021/05/25		83	%	60 - 140
7368764	H_W	Spiked Blank	1,4-Difluorobenzene	2021/05/25		98	%	60 - 140
			4-Bromofluorobenzene	2021/05/25		99	%	60 - 140
			D10-o-Xylene	2021/05/25		107	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/25		97	%	60 - 140
			Benzene	2021/05/25		95	%	50 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Toluene	2021/05/25		96	%	50 - 140
			Ethylbenzene	2021/05/25		109	%	50 - 140
			o-Xylene	2021/05/25		109	%	50 - 140
			p+m-Xylene	2021/05/25		104	%	50 - 140
			F1 (C6-C10)	2021/05/25		93	%	80 - 120
7368764	H_W	Method Blank	1,4-Difluorobenzene	2021/05/25		100	%	60 - 140
			4-Bromofluorobenzene	2021/05/25		89	%	60 - 140
			D10-o-Xylene	2021/05/25		106	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/25		99	%	60 - 140
			Benzene	2021/05/25	<0.020		ug/g	
			Toluene	2021/05/25	<0.020		ug/g	
			Ethylbenzene	2021/05/25	<0.020		ug/g	
			o-Xylene	2021/05/25	<0.020		ug/g	
			p+m-Xylene	2021/05/25	<0.040		ug/g	
			Total Xylenes	2021/05/25	<0.040		ug/g	
			F1 (C6-C10)	2021/05/25	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/05/25	<10		ug/g	
7368764	H_W	RPD	Benzene	2021/05/25	NC		%	50
			Toluene	2021/05/25	NC		%	50
			Ethylbenzene	2021/05/25	NC		%	50
			o-Xylene	2021/05/25	NC		%	50
			p+m-Xylene	2021/05/25	NC		%	50
			Total Xylenes	2021/05/25	NC		%	50
			F1 (C6-C10)	2021/05/25	NC		%	30
			F1 (C6-C10) - BTEX	2021/05/25	NC		%	30
7368807	DT1	Matrix Spike [PPT984-01]	Acid Extractable Antimony (Sb)	2021/05/26		95	%	75 - 125
			Acid Extractable Arsenic (As)	2021/05/26		99	%	75 - 125
			Acid Extractable Barium (Ba)	2021/05/26		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/05/26		99	%	75 - 125
			Acid Extractable Boron (B)	2021/05/26		100	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/05/26		96	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/05/26		97	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/05/26		96	%	75 - 125
			Acid Extractable Copper (Cu)	2021/05/26		89	%	75 - 125
			Acid Extractable Lead (Pb)	2021/05/26		NC	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/05/26		98	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/05/26		96	%	75 - 125
			Acid Extractable Selenium (Se)	2021/05/26		97	%	75 - 125
			Acid Extractable Silver (Ag)	2021/05/26		99	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/05/26		96	%	75 - 125
			Acid Extractable Uranium (U)	2021/05/26		103	%	75 - 125
			Acid Extractable Vanadium (V)	2021/05/26		100	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/05/26		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/05/26		84	%	75 - 125
7368807	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2021/05/26		103	%	80 - 120
			Acid Extractable Arsenic (As)	2021/05/26		101	%	80 - 120
			Acid Extractable Barium (Ba)	2021/05/26		100	%	80 - 120
			Acid Extractable Beryllium (Be)	2021/05/26		101	%	80 - 120
			Acid Extractable Boron (B)	2021/05/26		105	%	80 - 120
			Acid Extractable Cadmium (Cd)	2021/05/26		100	%	80 - 120
			Acid Extractable Chromium (Cr)	2021/05/26		101	%	80 - 120
			Acid Extractable Cobalt (Co)	2021/05/26		102	%	80 - 120
			Acid Extractable Copper (Cu)	2021/05/26		102	%	80 - 120
			Acid Extractable Lead (Pb)	2021/05/26		102	%	80 - 120

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Molybdenum (Mo)	2021/05/26		101	%	80 - 120
			Acid Extractable Nickel (Ni)	2021/05/26		104	%	80 - 120
			Acid Extractable Selenium (Se)	2021/05/26		102	%	80 - 120
			Acid Extractable Silver (Ag)	2021/05/26		101	%	80 - 120
			Acid Extractable Thallium (Tl)	2021/05/26		102	%	80 - 120
			Acid Extractable Uranium (U)	2021/05/26		106	%	80 - 120
			Acid Extractable Vanadium (V)	2021/05/26		100	%	80 - 120
			Acid Extractable Zinc (Zn)	2021/05/26		108	%	80 - 120
			Acid Extractable Mercury (Hg)	2021/05/26		91	%	80 - 120
7368807	DT1	Method Blank	Acid Extractable Antimony (Sb)	2021/05/26	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2021/05/26	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2021/05/26	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2021/05/26	<0.20		ug/g	
			Acid Extractable Boron (B)	2021/05/26	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2021/05/26	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2021/05/26	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2021/05/26	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2021/05/26	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2021/05/26	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2021/05/26	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2021/05/26	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2021/05/26	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2021/05/26	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2021/05/26	<0.050		ug/g	
			Acid Extractable Uranium (U)	2021/05/26	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2021/05/26	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2021/05/26	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2021/05/26	<0.050		ug/g	
7368807	DT1	RPD [PPT984-01]	Acid Extractable Antimony (Sb)	2021/05/26	17		%	30
			Acid Extractable Arsenic (As)	2021/05/26	7.6		%	30
			Acid Extractable Barium (Ba)	2021/05/26	12		%	30
			Acid Extractable Beryllium (Be)	2021/05/26	2.3		%	30
			Acid Extractable Boron (B)	2021/05/26	2.7		%	30
			Acid Extractable Cadmium (Cd)	2021/05/26	NC		%	30
			Acid Extractable Chromium (Cr)	2021/05/26	0.45		%	30
			Acid Extractable Cobalt (Co)	2021/05/26	7.3		%	30
			Acid Extractable Copper (Cu)	2021/05/26	4.8		%	30
			Acid Extractable Lead (Pb)	2021/05/26	8.0		%	30
			Acid Extractable Molybdenum (Mo)	2021/05/26	10		%	30
			Acid Extractable Nickel (Ni)	2021/05/26	4.5		%	30
			Acid Extractable Selenium (Se)	2021/05/26	NC		%	30
			Acid Extractable Silver (Ag)	2021/05/26	NC		%	30
			Acid Extractable Thallium (Tl)	2021/05/26	12		%	30
			Acid Extractable Uranium (U)	2021/05/26	21		%	30
			Acid Extractable Vanadium (V)	2021/05/26	0.22		%	30
			Acid Extractable Zinc (Zn)	2021/05/26	1.1		%	30
			Acid Extractable Mercury (Hg)	2021/05/26	NC		%	30
7368939	JOH	Matrix Spike	Hot Water Ext. Boron (B)	2021/05/26		103	%	75 - 125
7368939	JOH	Spiked Blank	Hot Water Ext. Boron (B)	2021/05/26		96	%	75 - 125
7368939	JOH	Method Blank	Hot Water Ext. Boron (B)	2021/05/26	<0.050		ug/g	
7368939	JOH	RPD	Hot Water Ext. Boron (B)	2021/05/26	NC		%	40
7369875	RGA	Matrix Spike	o-Terphenyl	2021/05/25		91	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/25		101	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/05/25		100	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F4 (C34-C50 Hydrocarbons)	2021/05/25		101	%	50 - 130
7369875	RGA	Spiked Blank	o-Terphenyl	2021/05/25		90	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/25		96	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/05/25		93	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/05/25		93	%	80 - 120
7369875	RGA	Method Blank	o-Terphenyl	2021/05/25		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/25	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/05/25	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/05/25	<50		ug/g	
7369875	RGA	RPD	F2 (C10-C16 Hydrocarbons)	2021/05/26	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/05/26	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/05/26	NC		%	30
7369881	RAJ	Matrix Spike	D10-Anthracene	2021/05/26		87	%	50 - 130
			D14-Terphenyl (FS)	2021/05/26		84	%	50 - 130
			D8-Acenaphthylene	2021/05/26		83	%	50 - 130
			Acenaphthene	2021/05/26		88	%	50 - 130
			Acenaphthylene	2021/05/26		82	%	50 - 130
			Anthracene	2021/05/26		86	%	50 - 130
			Benzo(a)anthracene	2021/05/26		93	%	50 - 130
			Benzo(a)pyrene	2021/05/26		78	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/26		87	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/26		84	%	50 - 130
			Benzo(k)fluoranthene	2021/05/26		82	%	50 - 130
			Chrysene	2021/05/26		92	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/26		82	%	50 - 130
			Fluoranthene	2021/05/26		92	%	50 - 130
			Fluorene	2021/05/26		88	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/26		87	%	50 - 130
			1-Methylnaphthalene	2021/05/26		96	%	50 - 130
			2-Methylnaphthalene	2021/05/26		92	%	50 - 130
			Naphthalene	2021/05/26		79	%	50 - 130
			Phenanthrene	2021/05/26		88	%	50 - 130
			Pyrene	2021/05/26		92	%	50 - 130
7369881	RAJ	Spiked Blank	D10-Anthracene	2021/05/26		93	%	50 - 130
			D14-Terphenyl (FS)	2021/05/26		87	%	50 - 130
			D8-Acenaphthylene	2021/05/26		88	%	50 - 130
			Acenaphthene	2021/05/26		89	%	50 - 130
			Acenaphthylene	2021/05/26		83	%	50 - 130
			Anthracene	2021/05/26		90	%	50 - 130
			Benzo(a)anthracene	2021/05/26		86	%	50 - 130
			Benzo(a)pyrene	2021/05/26		76	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/26		90	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/26		87	%	50 - 130
			Benzo(k)fluoranthene	2021/05/26		84	%	50 - 130
			Chrysene	2021/05/26		94	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/26		81	%	50 - 130
			Fluoranthene	2021/05/26		94	%	50 - 130
			Fluorene	2021/05/26		85	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/26		90	%	50 - 130
			1-Methylnaphthalene	2021/05/26		97	%	50 - 130
			2-Methylnaphthalene	2021/05/26		94	%	50 - 130
			Naphthalene	2021/05/26		84	%	50 - 130
			Phenanthrene	2021/05/26		93	%	50 - 130
			Pyrene	2021/05/26		94	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7369881	RAJ	Method Blank	D10-Anthracene	2021/05/26		89	%	50 - 130
			D14-Terphenyl (FS)	2021/05/26		83	%	50 - 130
			D8-Acenaphthylene	2021/05/26		85	%	50 - 130
			Acenaphthene	2021/05/26	<0.0050		ug/g	
			Acenaphthylene	2021/05/26	<0.0050		ug/g	
			Anthracene	2021/05/26	<0.0050		ug/g	
			Benzo(a)anthracene	2021/05/26	<0.0050		ug/g	
			Benzo(a)pyrene	2021/05/26	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/05/26	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2021/05/26	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/05/26	<0.0050		ug/g	
			Chrysene	2021/05/26	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/05/26	<0.0050		ug/g	
			Fluoranthene	2021/05/26	<0.0050		ug/g	
			Fluorene	2021/05/26	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/05/26	<0.0050		ug/g	
			1-Methylnaphthalene	2021/05/26	<0.0050		ug/g	
			2-Methylnaphthalene	2021/05/26	<0.0050		ug/g	
			Naphthalene	2021/05/26	<0.0050		ug/g	
			Phenanthrene	2021/05/26	<0.0050		ug/g	
			Pyrene	2021/05/26	<0.0050		ug/g	
7369881	RAJ	RPD	Acenaphthene	2021/05/26	NC		%	40
			Acenaphthylene	2021/05/26	NC		%	40
			Anthracene	2021/05/26	NC		%	40
			Benzo(a)anthracene	2021/05/26	NC		%	40
			Benzo(a)pyrene	2021/05/26	NC		%	40
			Benzo(b/j)fluoranthene	2021/05/26	NC		%	40
			Benzo(g,h,i)perylene	2021/05/26	NC		%	40
			Benzo(k)fluoranthene	2021/05/26	NC		%	40
			Chrysene	2021/05/26	NC		%	40
			Dibenzo(a,h)anthracene	2021/05/26	NC		%	40
			Fluoranthene	2021/05/26	NC		%	40
			Fluorene	2021/05/26	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/05/26	NC		%	40
			1-Methylnaphthalene	2021/05/26	NC		%	40
			2-Methylnaphthalene	2021/05/26	NC		%	40
			Naphthalene	2021/05/26	NC		%	40
			Phenanthrene	2021/05/26	NC		%	40
			Pyrene	2021/05/26	NC		%	40
7371056	VP2	Matrix Spike	Chromium (VI)	2021/05/26		92	%	70 - 130
7371056	VP2	Spiked Blank	Chromium (VI)	2021/05/26		98	%	80 - 120
7371056	VP2	Method Blank	Chromium (VI)	2021/05/26	<0.18		ug/g	
7371056	VP2	RPD	Chromium (VI)	2021/05/26	NC		%	35
7371338	KHP	Spiked Blank	Conductivity	2021/05/26		101	%	90 - 110
7371338	KHP	Method Blank	Conductivity	2021/05/26	<0.002		mS/cm	
7371338	KHP	RPD	Conductivity	2021/05/26	1.7		%	10
7371562	NYS	Spiked Blank	Available (CaCl2) pH	2021/05/26		99	%	97 - 103
7371562	NYS	RPD	Available (CaCl2) pH	2021/05/26	0.34		%	N/A
7392669	AFZ	Matrix Spike	Leachable Arsenic (As)	2021/06/07		99	%	80 - 120
			Leachable Barium (Ba)	2021/06/07		100	%	80 - 120
			Leachable Boron (B)	2021/06/07		100	%	80 - 120
			Leachable Cadmium (Cd)	2021/06/07		97	%	80 - 120
			Leachable Chromium (Cr)	2021/06/07		97	%	80 - 120
			Leachable Lead (Pb)	2021/06/07		97	%	80 - 120

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Leachable Mercury (Hg)	2021/06/07		96	%	80 - 120
			Leachable Selenium (Se)	2021/06/07		96	%	80 - 120
			Leachable Silver (Ag)	2021/06/07		96	%	80 - 120
			Leachable Uranium (U)	2021/06/07		100	%	80 - 120
7392669	AFZ	Leachate Blank	Leachable Arsenic (As)	2021/06/07	<0.2		mg/L	
			Leachable Barium (Ba)	2021/06/07	<0.2		mg/L	
			Leachable Boron (B)	2021/06/07	<0.1		mg/L	
			Leachable Cadmium (Cd)	2021/06/07	<0.05		mg/L	
			Leachable Chromium (Cr)	2021/06/07	<0.1		mg/L	
			Leachable Lead (Pb)	2021/06/07	<0.1		mg/L	
			Leachable Mercury (Hg)	2021/06/07	<0.001		mg/L	
			Leachable Selenium (Se)	2021/06/07	<0.1		mg/L	
			Leachable Silver (Ag)	2021/06/07	<0.01		mg/L	
			Leachable Uranium (U)	2021/06/07	<0.01		mg/L	
7392669	AFZ	RPD	Leachable Arsenic (As)	2021/06/07	NC		%	35
			Leachable Barium (Ba)	2021/06/07	NC		%	35
			Leachable Boron (B)	2021/06/07	NC		%	35
			Leachable Cadmium (Cd)	2021/06/07	NC		%	35
			Leachable Chromium (Cr)	2021/06/07	NC		%	35
			Leachable Lead (Pb)	2021/06/07	NC		%	35
			Leachable Mercury (Hg)	2021/06/07	NC		%	35
			Leachable Selenium (Se)	2021/06/07	NC		%	35
			Leachable Silver (Ag)	2021/06/07	NC		%	35
			Leachable Uranium (U)	2021/06/07	NC		%	35
			Leachable Arsenic (As)	2021/06/07	NC		%	35
			Leachable Barium (Ba)	2021/06/07	NC		%	35
			Leachable Boron (B)	2021/06/07	NC		%	35
			Leachable Cadmium (Cd)	2021/06/07	NC		%	35
			Leachable Chromium (Cr)	2021/06/07	NC		%	35
			Leachable Lead (Pb)	2021/06/07	NC		%	35
			Leachable Mercury (Hg)	2021/06/07	NC		%	35
			Leachable Selenium (Se)	2021/06/07	NC		%	35
			Leachable Silver (Ag)	2021/06/07	NC		%	35
			Leachable Uranium (U)	2021/06/07	NC		%	35
7392669	AFZ	Spiked Blank	Leachable Arsenic (As)	2021/06/07		97	%	80 - 120
			Leachable Barium (Ba)	2021/06/07		98	%	80 - 120
			Leachable Boron (B)	2021/06/07		98	%	80 - 120
			Leachable Cadmium (Cd)	2021/06/07		97	%	80 - 120
			Leachable Chromium (Cr)	2021/06/07		98	%	80 - 120
			Leachable Lead (Pb)	2021/06/07		98	%	80 - 120
			Leachable Mercury (Hg)	2021/06/07		94	%	80 - 120
			Leachable Selenium (Se)	2021/06/07		101	%	80 - 120
			Leachable Silver (Ag)	2021/06/07		98	%	80 - 120
			Leachable Uranium (U)	2021/06/07		100	%	80 - 120
7392669	AFZ	Method Blank	Leachable Arsenic (As)	2021/06/07	<0.2		mg/L	
			Leachable Barium (Ba)	2021/06/07	<0.2		mg/L	
			Leachable Boron (B)	2021/06/07	<0.1		mg/L	
			Leachable Cadmium (Cd)	2021/06/07	<0.05		mg/L	
			Leachable Chromium (Cr)	2021/06/07	<0.1		mg/L	
			Leachable Lead (Pb)	2021/06/07	<0.1		mg/L	
			Leachable Mercury (Hg)	2021/06/07	<0.001		mg/L	
			Leachable Selenium (Se)	2021/06/07	<0.1		mg/L	
			Leachable Silver (Ag)	2021/06/07	<0.01		mg/L	
			Leachable Uranium (U)	2021/06/07	<0.01		mg/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7392834	C_N	Matrix Spike	Leachable Nitrite (N)	2021/06/08		110	%	80 - 120
			Leachable Nitrate (N)	2021/06/08		81	%	80 - 120
			Leachable Nitrate + Nitrite (N)	2021/06/08		86	%	80 - 120
7392834	C_N	Leachate Blank	Leachable Nitrite (N)	2021/06/08	<0.10		mg/L	
			Leachable Nitrate (N)	2021/06/08	<1.0		mg/L	
			Leachable Nitrate + Nitrite (N)	2021/06/08	<1.0		mg/L	
7392834	C_N	Spiked Blank	Leachable Nitrite (N)	2021/06/08		106	%	80 - 120
			Leachable Nitrate (N)	2021/06/08		92	%	80 - 120
			Leachable Nitrate + Nitrite (N)	2021/06/08		95	%	80 - 120
7392834	C_N	Method Blank	Leachable Nitrite (N)	2021/06/08	<0.10		mg/L	
			Leachable Nitrate (N)	2021/06/08	<1.0		mg/L	
			Leachable Nitrate + Nitrite (N)	2021/06/08	<1.0		mg/L	
7392834	C_N	RPD	Leachable Nitrite (N)	2021/06/08	NC		%	25
			Leachable Nitrate (N)	2021/06/08	NC		%	25
			Leachable Nitrate + Nitrite (N)	2021/06/08	NC		%	25
7392840	SAU	Matrix Spike	Leachable Fluoride (F-)	2021/06/07		82	%	80 - 120
7392840	SAU	Leachate Blank	Leachable Fluoride (F-)	2021/06/07	<0.10		mg/L	
7392840	SAU	Spiked Blank	Leachable Fluoride (F-)	2021/06/07		95	%	80 - 120
7392840	SAU	Method Blank	Leachable Fluoride (F-)	2021/06/07	<0.10		mg/L	
7392840	SAU	RPD	Leachable Fluoride (F-)	2021/06/07	NC		%	25
7392855	ABP	Matrix Spike	Leachable WAD Cyanide (Free)	2021/06/07		85	%	80 - 120
7392855	ABP	Leachate Blank	Leachable WAD Cyanide (Free)	2021/06/07	<0.010		mg/L	
7392855	ABP	Spiked Blank	Leachable WAD Cyanide (Free)	2021/06/07		99	%	80 - 120
7392855	ABP	Method Blank	Leachable WAD Cyanide (Free)	2021/06/07	<0.0020		mg/L	
7392855	ABP	RPD	Leachable WAD Cyanide (Free)	2021/06/07	NC		%	20
7393808	RAJ	Matrix Spike	Leachable D10-Anthracene	2021/06/08		108	%	50 - 130
			Leachable D14-Terphenyl (FS)	2021/06/08		111	%	50 - 130
			Leachable D8-Acenaphthylene	2021/06/08		103	%	50 - 130
			Leachable Benzo(a)pyrene	2021/06/08		84	%	50 - 130
7393808	RAJ	Spiked Blank	Leachable D10-Anthracene	2021/06/08		112	%	50 - 130
			Leachable D14-Terphenyl (FS)	2021/06/08		114	%	50 - 130
			Leachable D8-Acenaphthylene	2021/06/08		106	%	50 - 130
			Leachable Benzo(a)pyrene	2021/06/08		85	%	50 - 130
7393808	RAJ	Method Blank	Leachable D10-Anthracene	2021/06/08		107	%	50 - 130
			Leachable D14-Terphenyl (FS)	2021/06/08		101	%	50 - 130
			Leachable D8-Acenaphthylene	2021/06/08		98	%	50 - 130
			Leachable Benzo(a)pyrene	2021/06/08	<0.10		ug/L	
7393865	DH	Matrix Spike	Leachable Aroclor 1260	2021/06/08		118	%	30 - 130
			Leachable Decachlorobiphenyl	2021/06/08		100	%	30 - 130
			Leachable Total PCB	2021/06/08		118	%	30 - 130
7393865	DH	Spiked Blank	Leachable Aroclor 1260	2021/06/08		108	%	30 - 130
			Leachable Decachlorobiphenyl	2021/06/08		103	%	30 - 130
			Leachable Total PCB	2021/06/08		108	%	30 - 130
7393865	DH	Method Blank	Leachable Aroclor 1016	2021/06/08	<3.0		ug/L	
			Leachable Aroclor 1221	2021/06/08	<3.0		ug/L	
			Leachable Aroclor 1242	2021/06/08	<3.0		ug/L	
			Leachable Aroclor 1248	2021/06/08	<3.0		ug/L	
			Leachable Aroclor 1254	2021/06/08	<3.0		ug/L	
			Leachable Aroclor 1260	2021/06/08	<3.0		ug/L	
			Leachable Decachlorobiphenyl	2021/06/08		101	%	30 - 130
			Leachable Total PCB	2021/06/08	<3.0		ug/L	
7393865	DH	RPD	Leachable Total PCB	2021/06/08	NC		%	40
7394814	CKH	Matrix Spike	Leachable 4-Bromofluorobenzene	2021/06/08		101	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2021/06/08		96	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Leachable D8-Toluene	2021/06/08		102	%	70 - 130
			Leachable Benzene	2021/06/08		90	%	70 - 130
			Leachable Carbon Tetrachloride	2021/06/08		111	%	70 - 130
			Leachable Chlorobenzene	2021/06/08		101	%	70 - 130
			Leachable Chloroform	2021/06/08		98	%	70 - 130
			Leachable 1,2-Dichlorobenzene	2021/06/08		99	%	70 - 130
			Leachable 1,4-Dichlorobenzene	2021/06/08		117	%	70 - 130
			Leachable 1,2-Dichloroethane	2021/06/08		91	%	70 - 130
			Leachable 1,1-Dichloroethylene	2021/06/08		99	%	70 - 130
			Leachable Methylene Chloride(Dichloromethan	2021/06/08		104	%	70 - 130
			Leachable Methyl Ethyl Ketone (2-Butanone)	2021/06/08		99	%	60 - 140
			Leachable Tetrachloroethylene	2021/06/08		97	%	70 - 130
			Leachable Trichloroethylene	2021/06/08		107	%	70 - 130
			Leachable Vinyl Chloride	2021/06/08		95	%	70 - 130
7394814	CKH	Spiked Blank	Leachable 4-Bromofluorobenzene	2021/06/08		102	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2021/06/08		97	%	70 - 130
			Leachable D8-Toluene	2021/06/08		101	%	70 - 130
			Leachable Benzene	2021/06/08		90	%	70 - 130
			Leachable Carbon Tetrachloride	2021/06/08		109	%	70 - 130
			Leachable Chlorobenzene	2021/06/08		100	%	70 - 130
			Leachable Chloroform	2021/06/08		97	%	70 - 130
			Leachable 1,2-Dichlorobenzene	2021/06/08		99	%	70 - 130
			Leachable 1,4-Dichlorobenzene	2021/06/08		115	%	70 - 130
			Leachable 1,2-Dichloroethane	2021/06/08		93	%	70 - 130
			Leachable 1,1-Dichloroethylene	2021/06/08		97	%	70 - 130
			Leachable Methylene Chloride(Dichloromethan	2021/06/08		105	%	70 - 130
			Leachable Methyl Ethyl Ketone (2-Butanone)	2021/06/08		101	%	60 - 140
			Leachable Tetrachloroethylene	2021/06/08		95	%	70 - 130
			Leachable Trichloroethylene	2021/06/08		106	%	70 - 130
			Leachable Vinyl Chloride	2021/06/08		92	%	70 - 130
7394814	CKH	Method Blank	Leachable 4-Bromofluorobenzene	2021/06/08		100	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2021/06/08		97	%	70 - 130
			Leachable D8-Toluene	2021/06/08		100	%	70 - 130
			Leachable Benzene	2021/06/08	<0.020		mg/L	
			Leachable Carbon Tetrachloride	2021/06/08	<0.020		mg/L	
			Leachable Chlorobenzene	2021/06/08	<0.020		mg/L	
			Leachable Chloroform	2021/06/08	<0.020		mg/L	
			Leachable 1,2-Dichlorobenzene	2021/06/08	<0.050		mg/L	
			Leachable 1,4-Dichlorobenzene	2021/06/08	<0.050		mg/L	
			Leachable 1,2-Dichloroethane	2021/06/08	<0.050		mg/L	
			Leachable 1,1-Dichloroethylene	2021/06/08	<0.020		mg/L	
			Leachable Methylene Chloride(Dichloromethan	2021/06/08	<0.20		mg/L	
			Leachable Methyl Ethyl Ketone (2-Butanone)	2021/06/08	<1.0		mg/L	
			Leachable Tetrachloroethylene	2021/06/08	<0.020		mg/L	
			Leachable Trichloroethylene	2021/06/08	<0.020		mg/L	
			Leachable Vinyl Chloride	2021/06/08	<0.020		mg/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7394814	CKH	RPD	Leachable Benzene	2021/06/08	NC		%	30

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

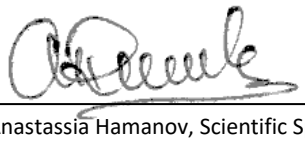
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

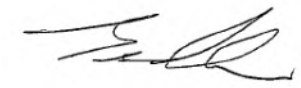
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

VALIDATION SIGNATURE PAGE

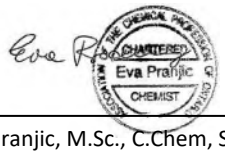
The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist



Brad Newman, B.Sc., C.Chem., Scientific Service Specialist



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

Antonella Brasil

C1D6669

ssissauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

KTN ENV-810

Company Name:	#982 Pinchin Ltd
Attention:	Accounts Payable
Address:	1 Hines Road Suite 200
	Kanata ON K2K 3C7
Tel:	(613) 592-3387 Fax: (613) 592-5897
Email:	ap@pinchin.com

REPORT TO:

Company Name:	
Attention:	Matt, Ryan, Mike
Address:	
Tel:	Fax:
Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@

PROJECT INFORMATION:

Quotation #:	A70927
P.O. #:	
Project:	262991.007
Project Name:	
Site #:	
Sampled By:	M. Kosiw

Laboratory Use Only:

BV Labs Job #:	Bottle Order #:
	796018
COC #:	Project Manager:
C#796018-30-01	Antonella Brasil

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)

- [ ] Table 1 [X] Res/Park [X] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [ ] Coarse
- [X] Table 3 [ ] Agri/Other [X] For RSC
- [ ] Table ___

Other Regulations

- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle): Metals / Hg / Cr VI

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	O.Reg 153 ICPMS Metals (Soil) (Full metals)	O.Reg 153 PHCs, BTEX/F1-F4 (Soil)	O.Reg 153 VOCs by HS (Soil)	O.Reg 153 PAHs (Soil)	pH CaCl2 EXTRACT	Sieve, 75um	ABNs	Chlorophenols	F2-F4	SAR	# of Bottles	Comments
1		BH209 SS-1	May 14 2021	PM	SOIL	X	X		X	X				X	X	2	
2		BH209 SS-3					X	X	X			X	X			2	
3		MW210 SS-3		AM			X	X	X			X	X			2	
4		MW211 SS-3					X	X	X			X	X			2	
5		MW212 SS-4					X	X	X	X		X	X			2	
6		Dup-1					X	X	X			X	X			2	
7		BH213 SS-4	May 17 2021	AM			X	X	X	X						2	RECEIVED IN OTTAWA
8		MW214 SS-1				X	X		X					X	X	2	
9		MW214 SS-3					X	X	X							2	
10		MW215 SS-3					X	X	X							2	ON Sec

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: [X]

(will be applied if Rush TAT is not specified):

Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

Date Required: ___ Time Required: ___ [ ]

Rush Confirmation Number: ___ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time
Mike Kosiw	May 19 2021		Kim Jung BR	2021/05/19	13:26
			VI TRINH	2021/05/20	08:30

jars used and not submitted: ___

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	6.6.8	Present		
		Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

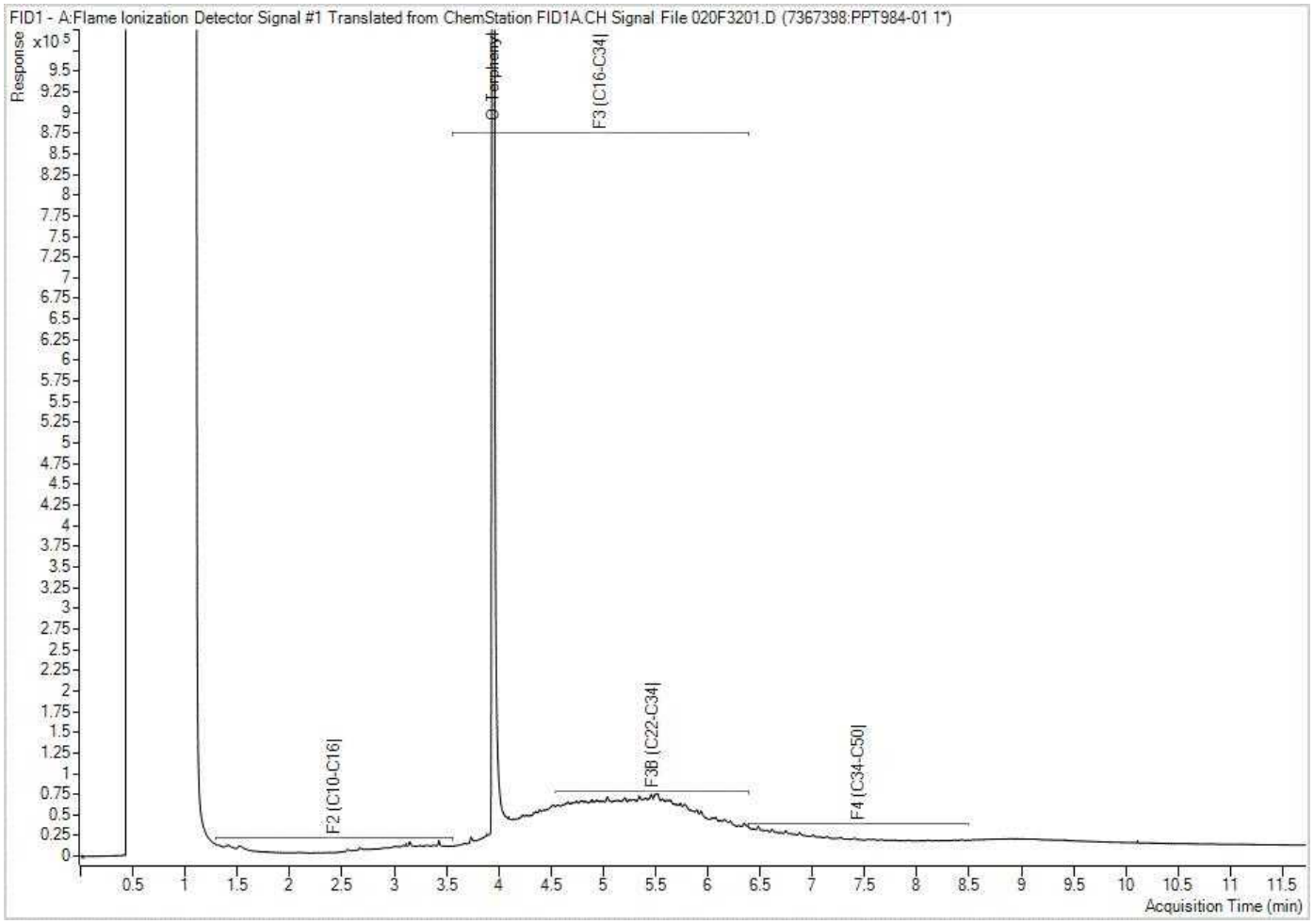
Bureau Veritas Canada (2019) Inc.

21213

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT984

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH209 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

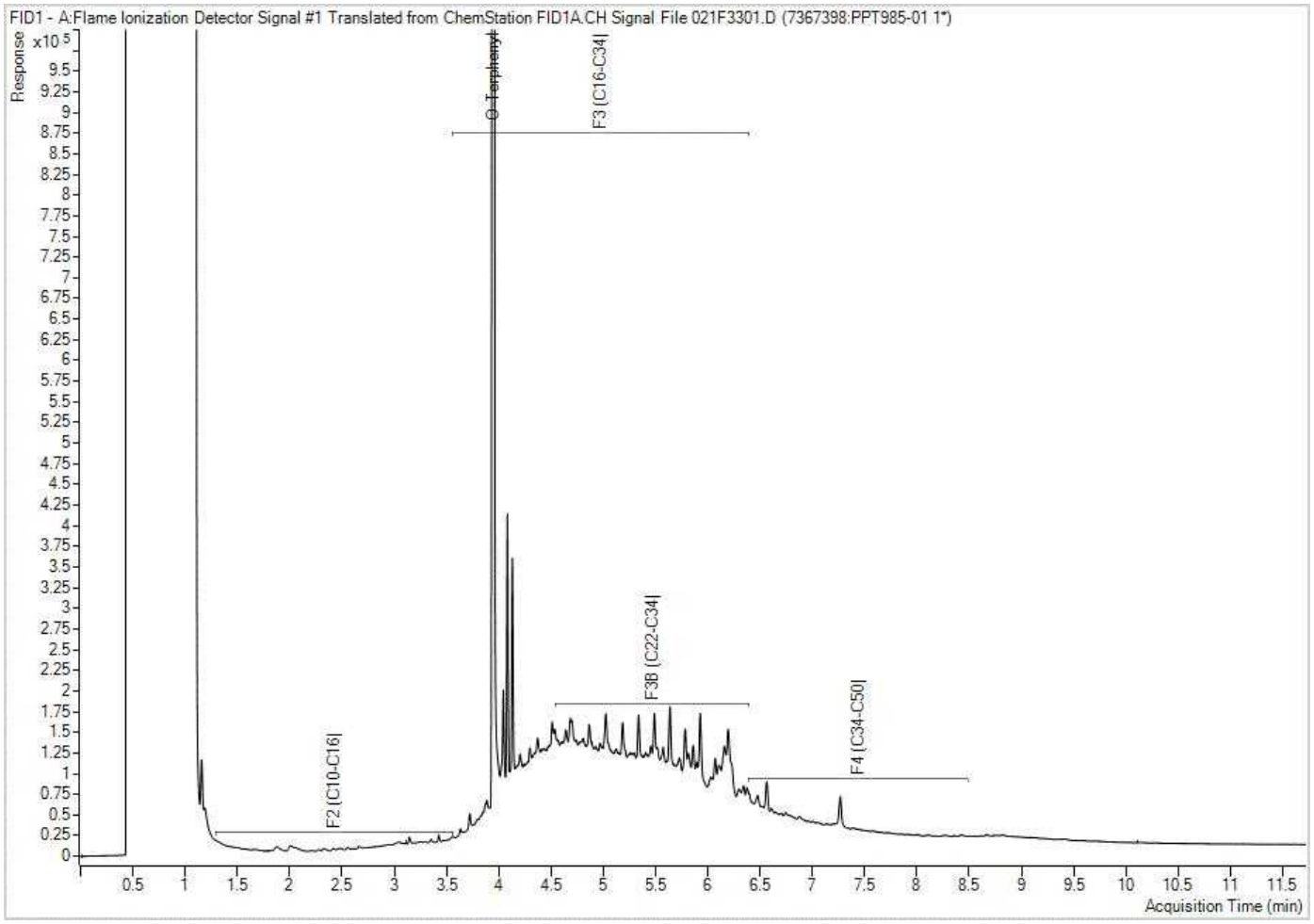


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT985

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH209 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

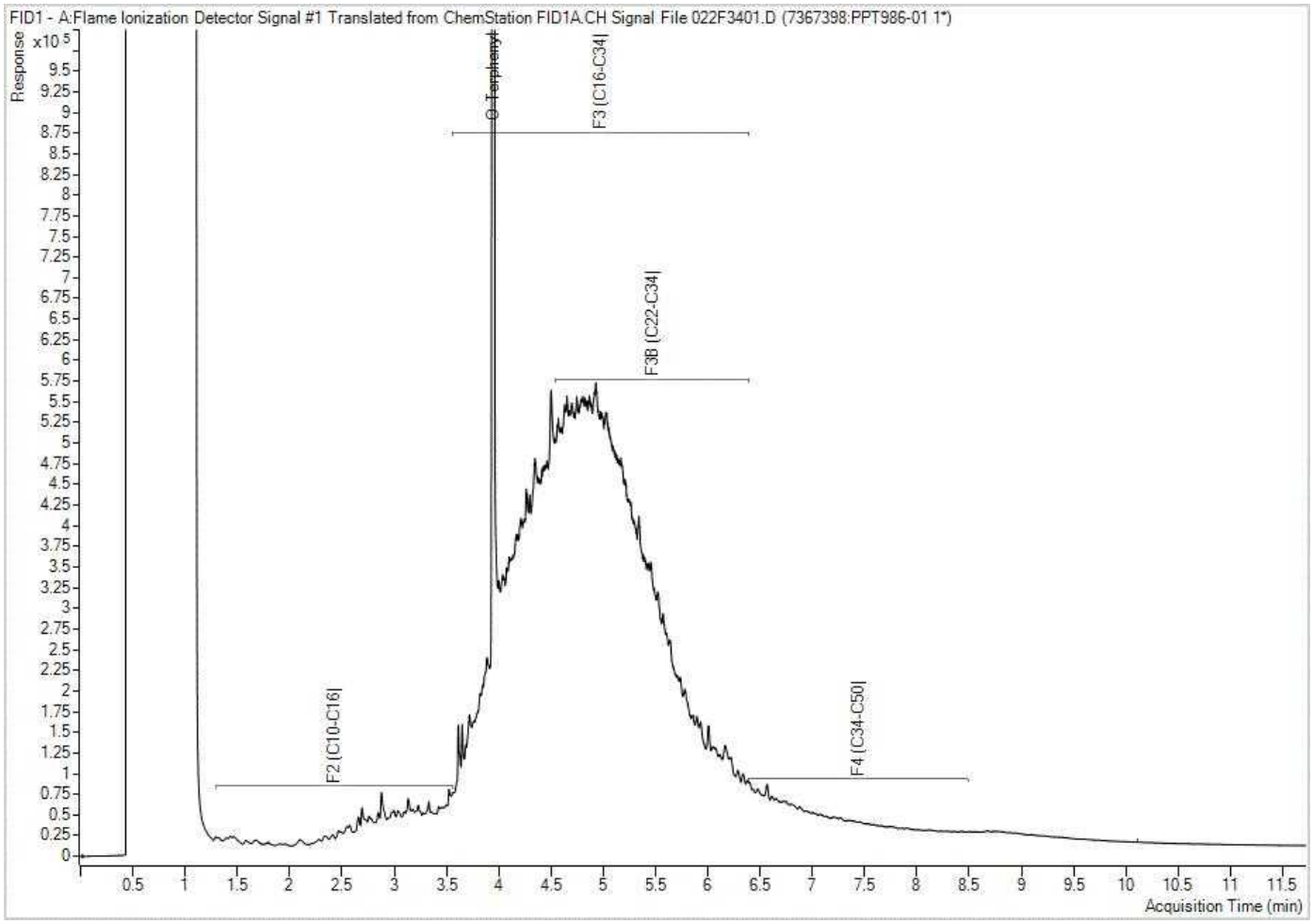


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT986

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW210 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

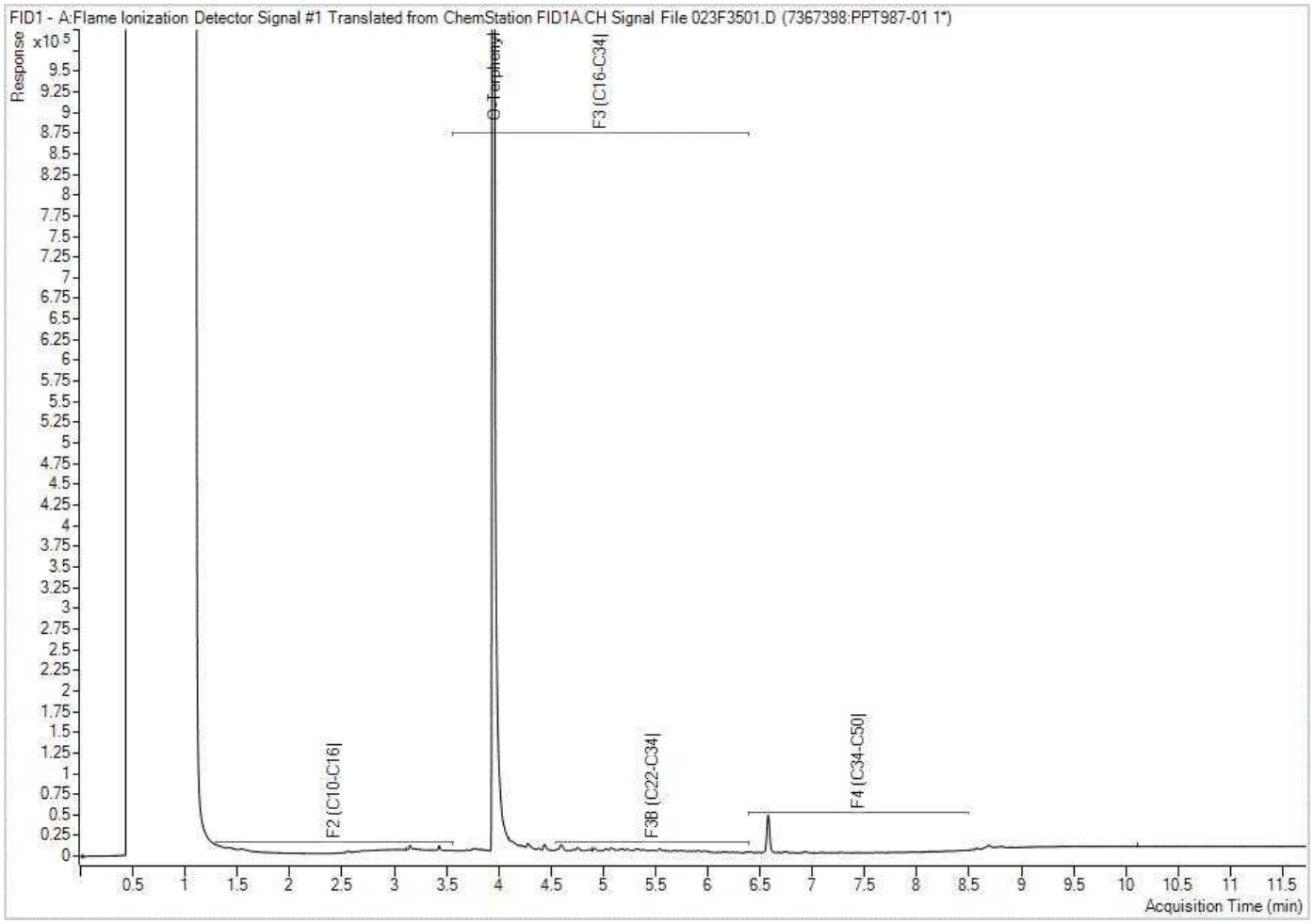


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT987

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW211 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

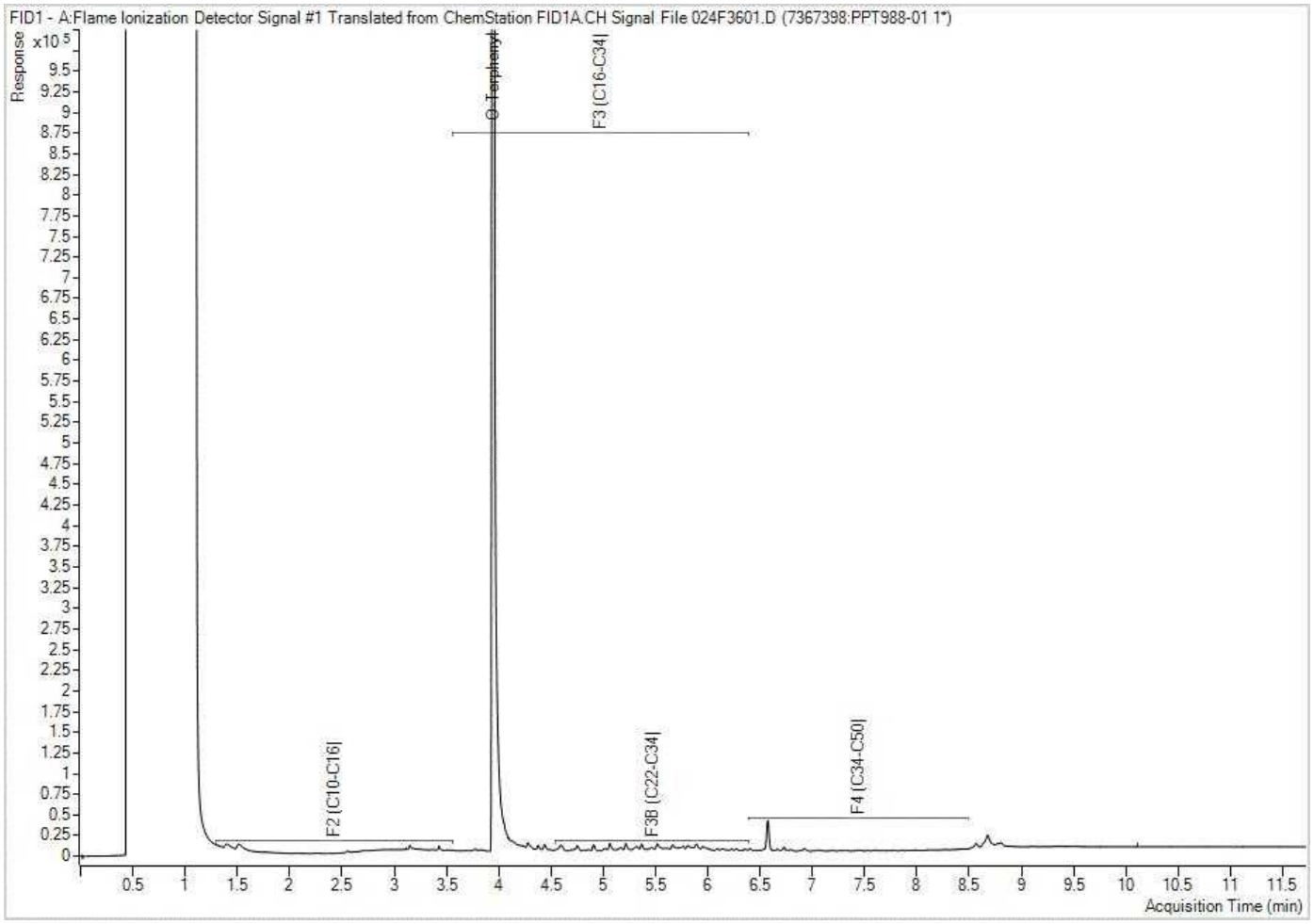


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT988

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW212 SS-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

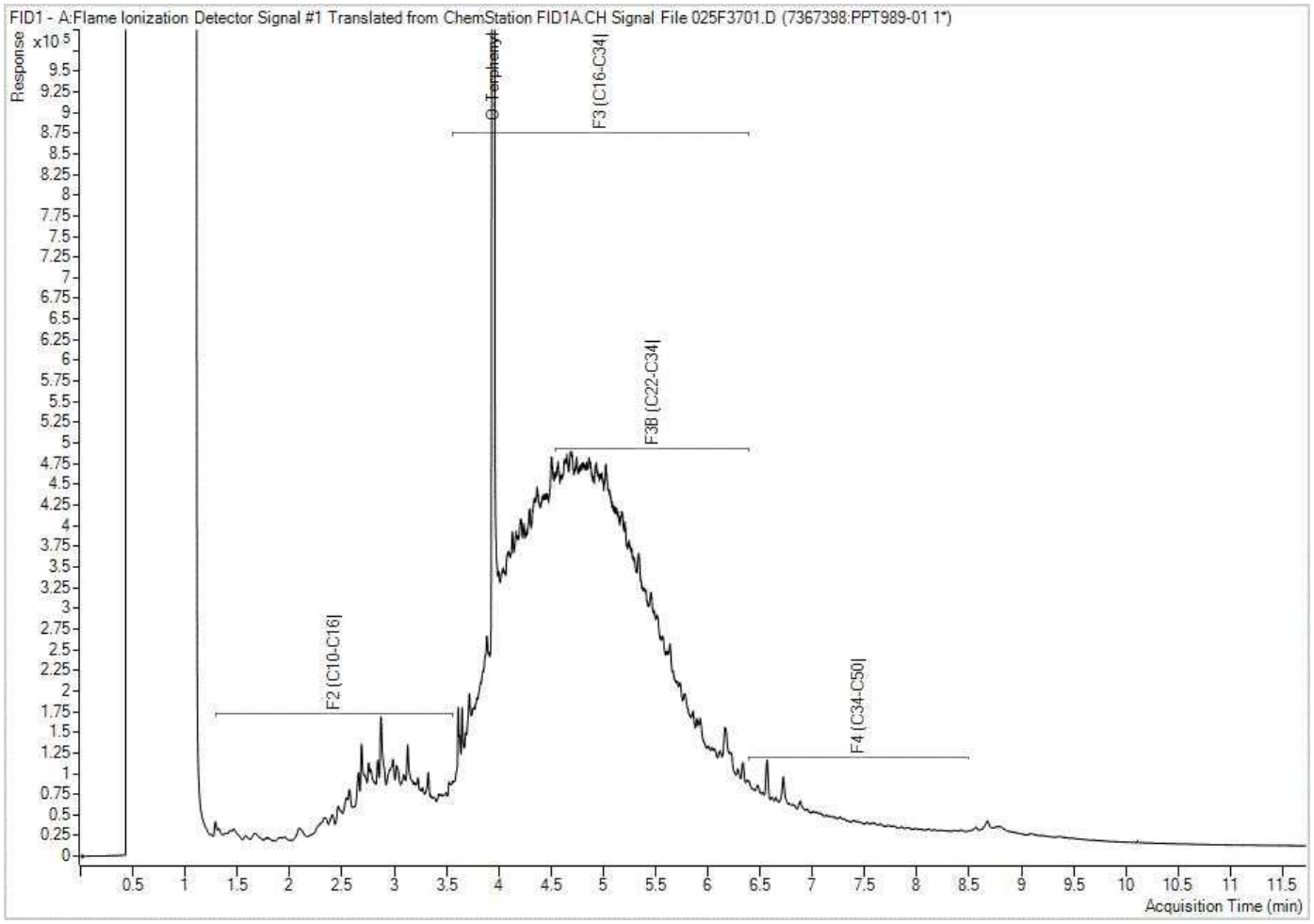


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT989

Pinchin Ltd
Client Project #: 267991.007
Client ID: DUP-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

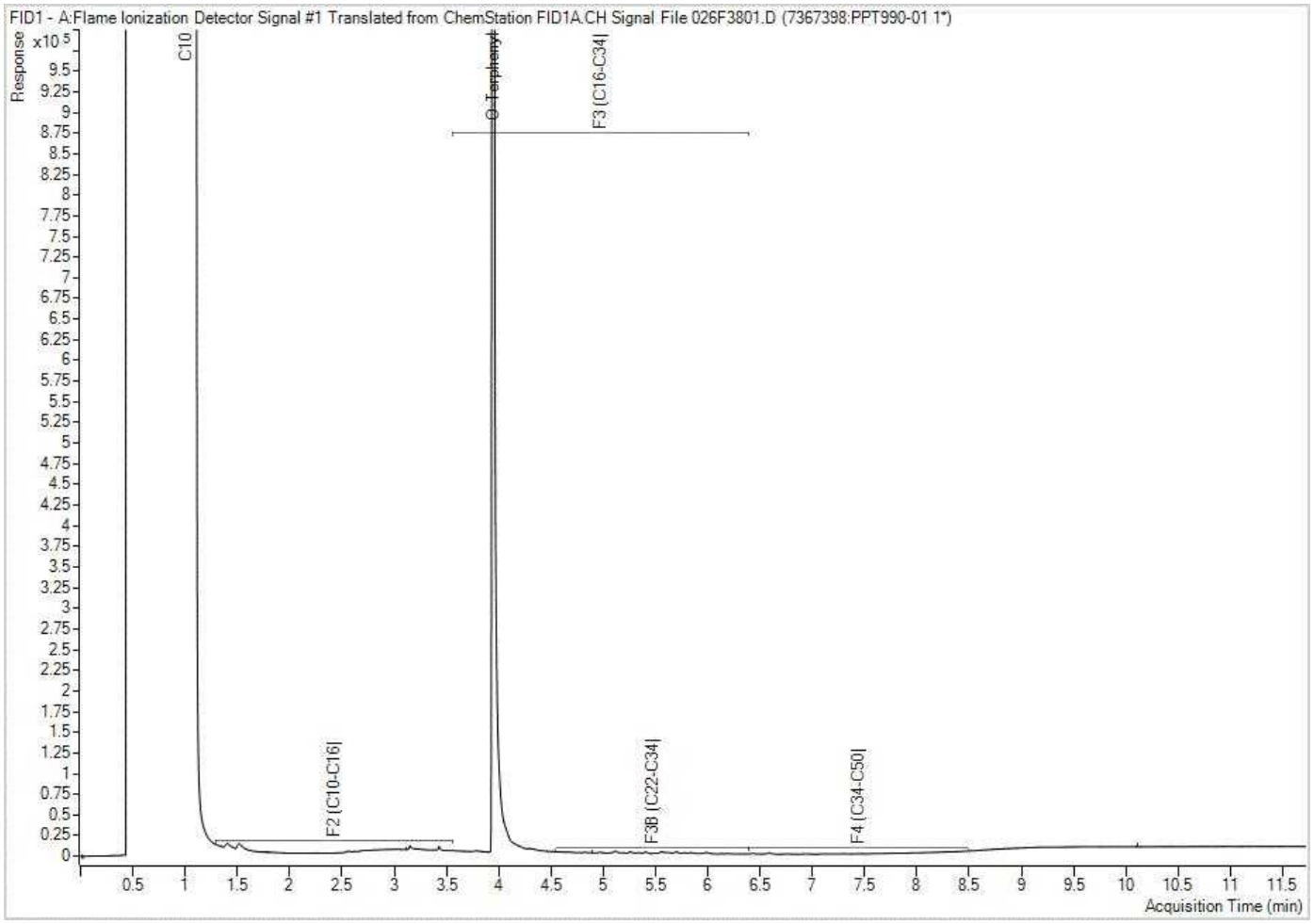


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT990

Pinchin Ltd
Client Project #: 267991.007
Client ID: BH213 SS-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

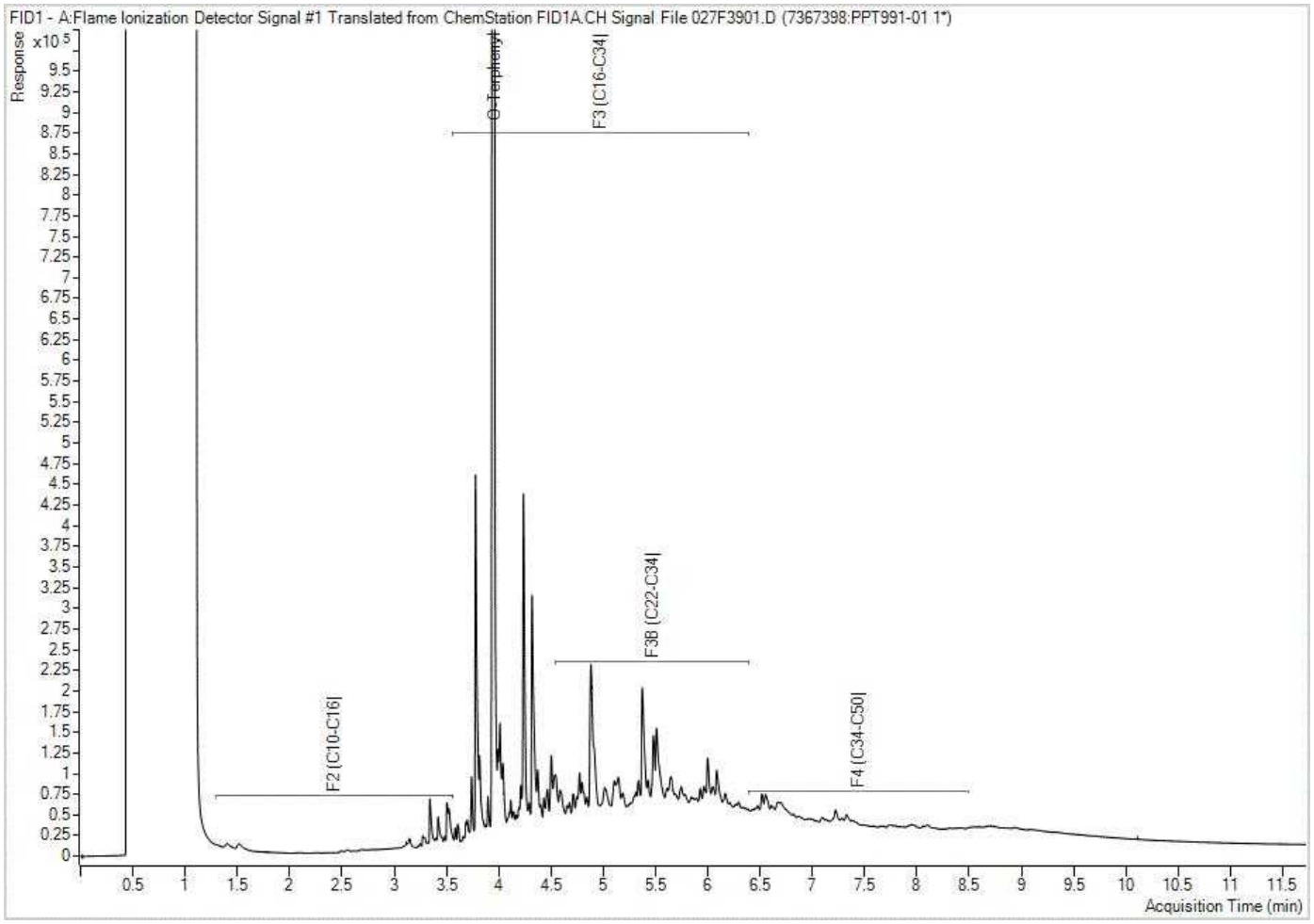


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT991

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW214 SS-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

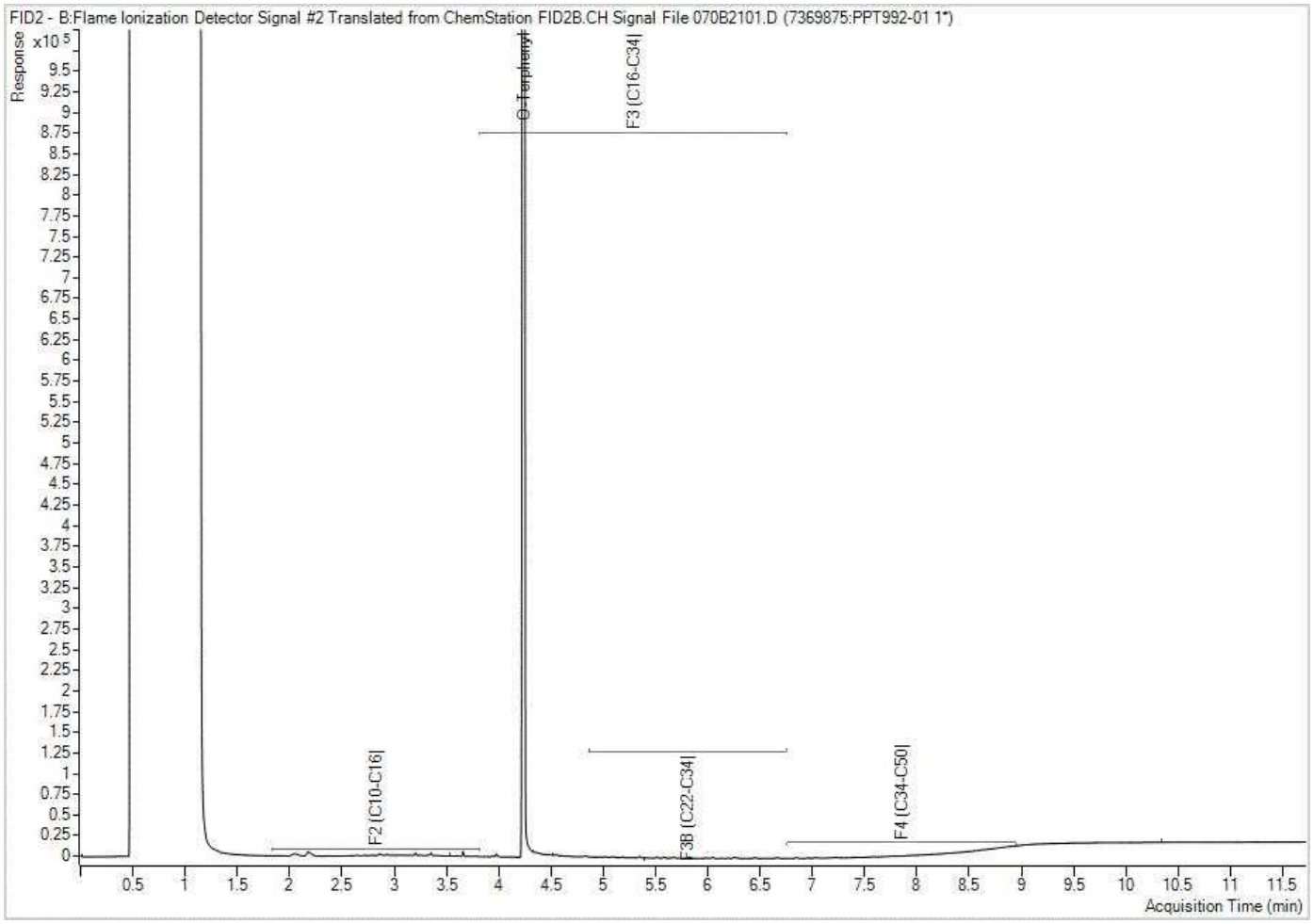


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT992

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW214 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

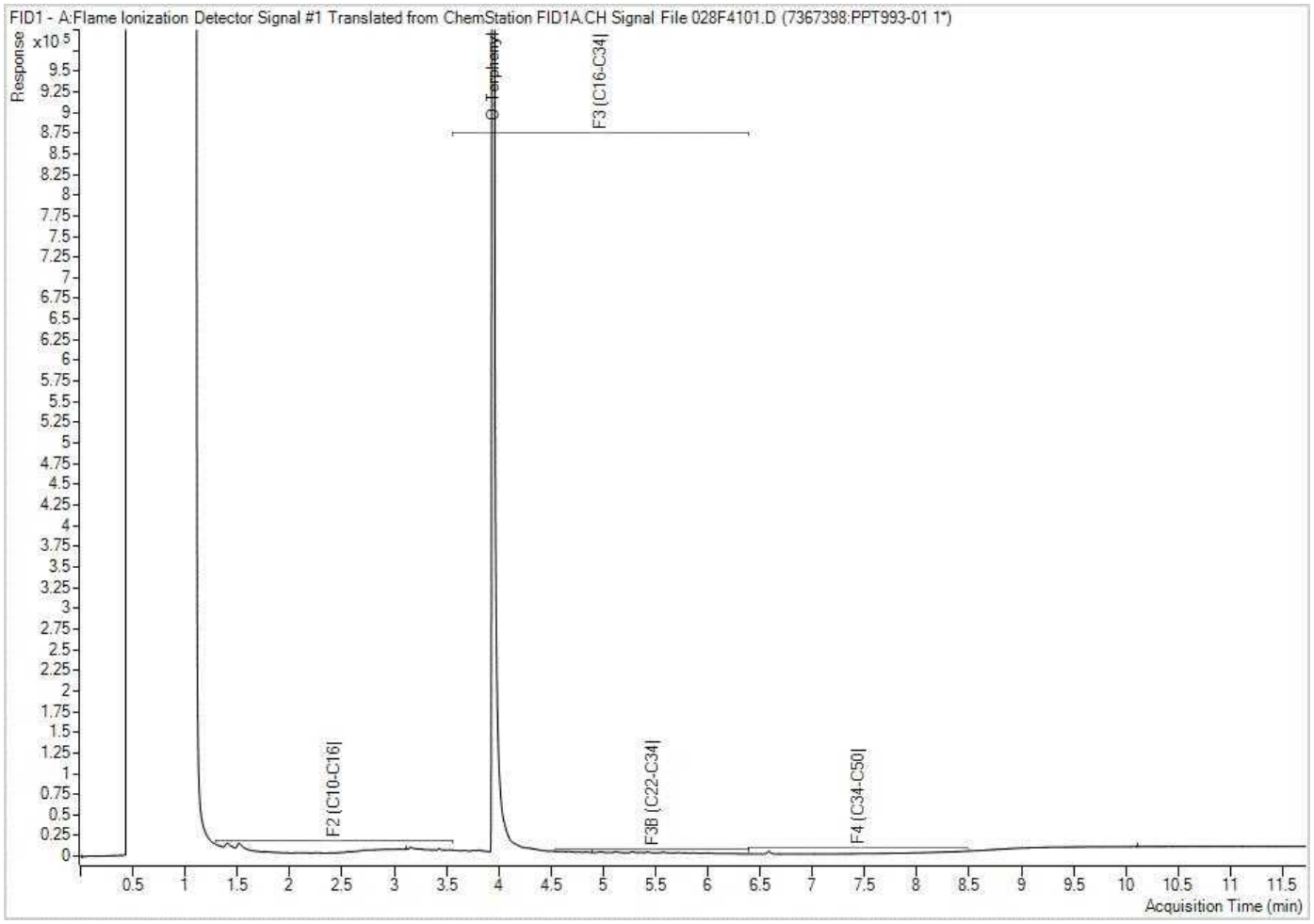


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1D6669
Report Date: 2021/06/09
BV Labs Sample: PPT993

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW215 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your Project #: 267991.007
Your C.O.C. #: 796018-01-01, 796018-31-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/14
Report #: R6675250
Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1F2589
Received: 2021/06/03, 13:30

Sample Matrix: Water
Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	6	N/A	2021/06/10	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum (1)	6	N/A	2021/06/14	CAM SOP-00301	EPA 8270D m
ABN Compounds in Water by SIM GC/MS (1)	6	2021/06/10	2021/06/11	CAM SOP-00301	EPA 8270 m
1,3-Dichloropropene Sum (1)	12	N/A	2021/06/11		EPA 8260C m
Dinitrotoluene Sum (1)	6	N/A	2021/06/14	CAM SOP - 00301	EPA 8270
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	5	2021/06/08	2021/06/08	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	6	2021/06/08	2021/06/09	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS (1)	2	N/A	2021/06/08	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	6	2021/06/08	2021/06/09	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	2	N/A	2021/06/10	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs (1)	10	N/A	2021/06/11	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Your Project #: 267991.007
Your C.O.C. #: 796018-01-01, 796018-31-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/14
Report #: R6675250
Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1F2589
Received: 2021/06/03, 13:30

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817

==========

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PTD389		
Sampling Date		2021/06/01		
COC Number		796018-31-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7399851
Benzene	ug/L	<0.20	0.20	7399851
Bromodichloromethane	ug/L	<0.50	0.50	7399851
Bromoform	ug/L	<1.0	1.0	7399851
Bromomethane	ug/L	<0.50	0.50	7399851
Carbon Tetrachloride	ug/L	<0.20	0.20	7399851
Chlorobenzene	ug/L	<0.20	0.20	7399851
Chloroform	ug/L	<0.20	0.20	7399851
Dibromochloromethane	ug/L	<0.50	0.50	7399851
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7399851
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7399851
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7399851
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7399851
1,1-Dichloroethane	ug/L	<0.20	0.20	7399851
1,2-Dichloroethane	ug/L	<0.50	0.50	7399851
1,1-Dichloroethylene	ug/L	<0.20	0.20	7399851
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7399851
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7399851
1,2-Dichloropropane	ug/L	<0.20	0.20	7399851
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7399851
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7399851
Ethylbenzene	ug/L	<0.20	0.20	7399851
Ethylene Dibromide	ug/L	<0.20	0.20	7399851
Hexane	ug/L	<1.0	1.0	7399851
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7399851
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7399851
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7399851
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7399851
Styrene	ug/L	<0.50	0.50	7399851
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7399851
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7399851
Tetrachloroethylene	ug/L	<0.20	0.20	7399851
Toluene	ug/L	<0.20	0.20	7399851
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7399851
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7399851
Trichloroethylene	ug/L	<0.20	0.20	7399851

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PTD389		
Sampling Date		2021/06/01		
COC Number		796018-31-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7399851
Vinyl Chloride	ug/L	<0.20	0.20	7399851
p+m-Xylene	ug/L	<0.20	0.20	7399851
o-Xylene	ug/L	<0.20	0.20	7399851
Total Xylenes	ug/L	<0.20	0.20	7399851
F1 (C6-C10)	ug/L	<25	25	7399851
F1 (C6-C10) - BTEX	ug/L	<25	25	7399851
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	81		7399851
D4-1,2-Dichloroethane	%	107		7399851
D8-Toluene	%	92		7399851

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 DISSOLVED ICPMS METALS (WATER)

BV Labs ID		PTD382	PTD386		
Sampling Date		2021/06/01	2021/06/01		
COC Number		796018-01-01	796018-31-01		
	UNITS	MW-14A	DUP-4	RDL	QC Batch
Metals					
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7391613
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	7391613
Dissolved Barium (Ba)	ug/L	160	160	2.0	7391613
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	7391613
Dissolved Boron (B)	ug/L	47	47	10	7391613
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	7391613
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	7391613
Dissolved Cobalt (Co)	ug/L	2.8	2.8	0.50	7391613
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	7391613
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	7391613
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	7391613
Dissolved Nickel (Ni)	ug/L	6.7	6.5	1.0	7391613
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	7391613
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	7391613
Dissolved Sodium (Na)	ug/L	160000	150000	100	7391613
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7391613
Dissolved Uranium (U)	ug/L	8.5	8.3	0.10	7391613
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	7391613
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7391613

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1F2589
Report Date: 2021/06/14

Pinchin Ltd
Client Project #: 267991.007
Sampler Initials: MK

O.REG 153 PAHS (WATER)

BV Labs ID		PTD375	PTD377	PTD383	PTD384	PTD385	PTD387		
Sampling Date		2021/06/02	2021/06/01	2021/06/01	2021/06/01	2021/06/01	2021/06/02		
COC Number		796018-01-01	796018-01-01	796018-01-01	796018-01-01	796018-31-01	796018-31-01		
	UNITS	MW-9	MW-11	MW214	MW215	MW216	DUP-5	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	0.071	7389174
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	7395854
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Naphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	7395854
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7395854
Surrogate Recovery (%)									
D10-Anthracene	%	97	111	108	99	111	103		7395854
D14-Terphenyl (FS)	%	82	86	90	82	90	83		7395854
D8-Acenaphthylene	%	86	98	96	89	98	93		7395854

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		PTD375		PTD376			PTD376		
Sampling Date		2021/06/02		2021/06/02			2021/06/02		
COC Number		796018-01-01		796018-01-01			796018-01-01		
	UNITS	MW-9	QC Batch	MW-10	RDL	QC Batch	MW-10 Lab-Dup	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	7391102	<0.50	0.50	7390569			
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	7399851	<10	10	7399851	<10	10	7399851
Benzene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Bromodichloromethane	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
Bromoform	ug/L	<1.0	7399851	<1.0	1.0	7399851	<1.0	1.0	7399851
Bromomethane	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
Carbon Tetrachloride	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Chlorobenzene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Chloroform	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Dibromochloromethane	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
1,2-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
1,3-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
1,4-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	7399851	<1.0	1.0	7399851	<1.0	1.0	7399851
1,1-Dichloroethane	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
1,2-Dichloroethane	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
1,1-Dichloroethylene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
cis-1,2-Dichloroethylene	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
trans-1,2-Dichloroethylene	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
1,2-Dichloropropane	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
cis-1,3-Dichloropropene	ug/L	<0.30	7399851	<0.30	0.30	7399851	<0.30	0.30	7399851
trans-1,3-Dichloropropene	ug/L	<0.40	7399851	<0.40	0.40	7399851	<0.40	0.40	7399851
Ethylbenzene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Ethylene Dibromide	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Hexane	ug/L	<1.0	7399851	<1.0	1.0	7399851	<1.0	1.0	7399851
Methylene Chloride(Dichloromethane)	ug/L	<2.0	7399851	<2.0	2.0	7399851	<2.0	2.0	7399851
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	7399851	<10	10	7399851	<10	10	7399851
Methyl Isobutyl Ketone	ug/L	<5.0	7399851	<5.0	5.0	7399851	<5.0	5.0	7399851
Methyl t-butyl ether (MTBE)	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
Styrene	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
1,1,1,2-Tetrachloroethane	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
1,1,2,2-Tetrachloroethane	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
Tetrachloroethylene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Toluene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		PTD375		PTD376			PTD376		
Sampling Date		2021/06/02		2021/06/02			2021/06/02		
COC Number		796018-01-01		796018-01-01			796018-01-01		
	UNITS	MW-9	QC Batch	MW-10	RDL	QC Batch	MW-10 Lab-Dup	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
1,1,2-Trichloroethane	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
Trichloroethylene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	7399851	<0.50	0.50	7399851	<0.50	0.50	7399851
Vinyl Chloride	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
p+m-Xylene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
o-Xylene	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
Total Xylenes	ug/L	<0.20	7399851	<0.20	0.20	7399851	<0.20	0.20	7399851
F1 (C6-C10)	ug/L	<25	7399851	<25	25	7399851	<25	25	7399851
F1 (C6-C10) - BTEX	ug/L	<25	7399851	<25	25	7399851	<25	25	7399851
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	<100	7395872	<100	100	7394536			
F3 (C16-C34 Hydrocarbons)	ug/L	<200	7395872	250	200	7394536			
F4 (C34-C50 Hydrocarbons)	ug/L	<200	7395872	<200	200	7394536			
Reached Baseline at C50	ug/L	Yes	7395872	Yes		7394536			
Surrogate Recovery (%)									
o-Terphenyl	%	81	7395872	91		7394536			
4-Bromofluorobenzene	%	87	7399851	86		7399851	87		7399851
D4-1,2-Dichloroethane	%	119	7399851	110		7399851	115		7399851
D8-Toluene	%	99	7399851	87		7399851	87		7399851

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		PTD377		PTD378		PTD379	PTD380		
Sampling Date		2021/06/01		2021/06/02		2021/06/02	2021/06/02		
COC Number		796018-01-01		796018-01-01		796018-01-01	796018-01-01		
	UNITS	MW-11	QC Batch	MW208	QC Batch	MW210	MW211	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	7390569	<0.50	7390569	<0.50	<0.50	0.50	7391102
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	7399851	11	7399851	13	<10	10	7399851
Benzene	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Bromodichloromethane	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
Bromoform	ug/L	<1.0	7399851	<1.0	7399851	<1.0	<1.0	1.0	7399851
Bromomethane	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
Carbon Tetrachloride	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Chlorobenzene	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Chloroform	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Dibromochloromethane	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
1,2-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
1,3-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
1,4-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	7399851	<1.0	7399851	<1.0	<1.0	1.0	7399851
1,1-Dichloroethane	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
1,2-Dichloroethane	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
1,1-Dichloroethylene	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
cis-1,2-Dichloroethylene	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
trans-1,2-Dichloroethylene	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
1,2-Dichloropropane	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
cis-1,3-Dichloropropene	ug/L	<0.30	7399851	<0.30	7399851	<0.30	<0.30	0.30	7399851
trans-1,3-Dichloropropene	ug/L	<0.40	7399851	<0.40	7399851	<0.40	<0.40	0.40	7399851
Ethylbenzene	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Ethylene Dibromide	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Hexane	ug/L	<1.0	7399851	<1.0	7399851	<1.0	<1.0	1.0	7399851
Methylene Chloride(Dichloromethane)	ug/L	<2.0	7399851	<2.0	7399851	<2.0	<2.0	2.0	7399851
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	7399851	<10	7399851	<10	<10	10	7399851
Methyl Isobutyl Ketone	ug/L	<5.0	7399851	<5.0	7399851	<5.0	<5.0	5.0	7399851
Methyl t-butyl ether (MTBE)	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
Styrene	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
1,1,1,2-Tetrachloroethane	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
1,1,2,2-Tetrachloroethane	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
Tetrachloroethylene	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Toluene	ug/L	<0.20	7399851	<0.20	7399851	0.32	<0.20	0.20	7399851
1,1,1-Trichloroethane	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		PTD377		PTD378		PTD379	PTD380		
Sampling Date		2021/06/01		2021/06/02		2021/06/02	2021/06/02		
COC Number		796018-01-01		796018-01-01		796018-01-01	796018-01-01		
	UNITS	MW-11	QC Batch	MW208	QC Batch	MW210	MW211	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
Trichloroethylene	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	7399851	<0.50	7399851	<0.50	<0.50	0.50	7399851
Vinyl Chloride	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
p+m-Xylene	ug/L	<0.20	7399851	0.30	7399851	0.22	<0.20	0.20	7399851
o-Xylene	ug/L	<0.20	7399851	<0.20	7399851	<0.20	<0.20	0.20	7399851
Total Xylenes	ug/L	<0.20	7399851	0.30	7399851	0.22	<0.20	0.20	7399851
F1 (C6-C10)	ug/L	<25	7399851	<25	7399851	<25	<25	25	7399851
F1 (C6-C10) - BTEX	ug/L	<25	7399851	<25	7399851	<25	<25	25	7399851
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	<100	7395872	120	7394536	160	100	100	7394536
F3 (C16-C34 Hydrocarbons)	ug/L	<200	7395872	280	7394536	240	210	200	7394536
F4 (C34-C50 Hydrocarbons)	ug/L	<200	7395872	<200	7394536	<200	<200	200	7394536
Reached Baseline at C50	ug/L	Yes	7395872	Yes	7394536	Yes	Yes		7394536
Surrogate Recovery (%)									
o-Terphenyl	%	84	7395872	91	7394536	89	90		7394536
4-Bromofluorobenzene	%	82	7399851	80	7399851	80	85		7399851
D4-1,2-Dichloroethane	%	104	7399851	102	7399851	116	130		7399851
D8-Toluene	%	88	7399851	97	7399851	90	77		7399851

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		PTD381		PTD383	PTD384	PTD385	PTD387		
Sampling Date		2021/06/01		2021/06/01	2021/06/01	2021/06/01	2021/06/02		
COC Number		796018-01-01		796018-01-01	796018-01-01	796018-31-01	796018-31-01		
	UNITS	MW212	QC Batch	MW214	MW215	MW216	DUP-5	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	7391102	<0.50	<0.50	<0.50	<0.50	0.50	7391102
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	7399851	<10	<10	<10	<10	10	7399851
Benzene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Bromodichloromethane	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
Bromoform	ug/L	<1.0	7399851	<1.0	<1.0	<1.0	<1.0	1.0	7399851
Bromomethane	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
Carbon Tetrachloride	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Chlorobenzene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Chloroform	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Dibromochloromethane	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
1,2-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
1,3-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
1,4-Dichlorobenzene	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	7399851	<1.0	<1.0	<1.0	<1.0	1.0	7399851
1,1-Dichloroethane	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
1,2-Dichloroethane	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
1,1-Dichloroethylene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
cis-1,2-Dichloroethylene	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
trans-1,2-Dichloroethylene	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
1,2-Dichloropropane	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
cis-1,3-Dichloropropene	ug/L	<0.30	7399851	<0.30	<0.30	<0.30	<0.30	0.30	7399851
trans-1,3-Dichloropropene	ug/L	<0.40	7399851	<0.40	<0.40	<0.40	<0.40	0.40	7399851
Ethylbenzene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Ethylene Dibromide	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Hexane	ug/L	<1.0	7399851	<1.0	<1.0	<1.0	<1.0	1.0	7399851
Methylene Chloride(Dichloromethane)	ug/L	<2.0	7399851	<2.0	<2.0	<2.0	<2.0	2.0	7399851
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	7399851	<10	<10	<10	<10	10	7399851
Methyl Isobutyl Ketone	ug/L	<5.0	7399851	<5.0	<5.0	<5.0	<5.0	5.0	7399851
Methyl t-butyl ether (MTBE)	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
Styrene	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
1,1,1,2-Tetrachloroethane	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
1,1,2,2-Tetrachloroethane	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
Tetrachloroethylene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Toluene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
1,1,1-Trichloroethane	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS & F1-F4 (WATER)

BV Labs ID		PTD381		PTD383	PTD384	PTD385	PTD387		
Sampling Date		2021/06/01		2021/06/01	2021/06/01	2021/06/01	2021/06/02		
COC Number		796018-01-01		796018-01-01	796018-01-01	796018-31-01	796018-31-01		
	UNITS	MW212	QC Batch	MW214	MW215	MW216	DUP-5	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
Trichloroethylene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	7399851	<0.50	<0.50	<0.50	<0.50	0.50	7399851
Vinyl Chloride	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
p+m-Xylene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
o-Xylene	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
Total Xylenes	ug/L	<0.20	7399851	<0.20	<0.20	<0.20	<0.20	0.20	7399851
F1 (C6-C10)	ug/L	<25	7399851	<25	<25	<25	<25	25	7399851
F1 (C6-C10) - BTEX	ug/L	<25	7399851	<25	<25	<25	<25	25	7399851
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	<100	7394536	<100	<100	<100	<100	100	7395872
F3 (C16-C34 Hydrocarbons)	ug/L	420	7394536	<200	<200	<200	<200	200	7395872
F4 (C34-C50 Hydrocarbons)	ug/L	490	7394536	<200	<200	<200	<200	200	7395872
Reached Baseline at C50	ug/L	Yes	7394536	Yes	Yes	Yes	Yes		7395872
Surrogate Recovery (%)									
o-Terphenyl	%	89	7394536	86	86	85	85		7395872
4-Bromofluorobenzene	%	74	7399851	82	83	80	88		7399851
D4-1,2-Dichloroethane	%	104	7399851	110	130	109	126		7399851
D8-Toluene	%	88	7399851	92	91	96	87		7399851

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

BV Labs ID		PTD376		PTD378		PTD379	PTD380		
Sampling Date		2021/06/02		2021/06/02		2021/06/02	2021/06/02		
COC Number		796018-01-01		796018-01-01		796018-01-01	796018-01-01		
	UNITS	MW-10	QC Batch	MW208	QC Batch	MW210	MW211	RDL	QC Batch
Semivolatile Organics									
1,2,4-Trichlorobenzene	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
1-Methylnaphthalene	ug/L	<0.2	7400800	<0.2	7400800	<0.2	<0.2	0.2	7400800
2,4,5-Trichlorophenol	ug/L	<0.2	7400800	<0.2	7400800	<0.2	<0.2	0.2	7400800
2,4,6-Trichlorophenol	ug/L	<0.2	7400800	<0.2	7400800	<0.2	<0.2	0.2	7400800
2,4-Dichlorophenol	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
2,4-Dimethylphenol	ug/L	<0.5	7400800	1.3	7400800	3.8	<0.5	0.5	7400800
2,4-Dinitrophenol	ug/L	<2	7400800	<2	7400800	<2	<2	2	7400800
2,4-Dinitrotoluene	ug/L	<0.3	7400800	<0.3	7400800	<0.3	<0.3	0.3	7400800
2,6-Dinitrotoluene	ug/L	<0.3	7400800	<0.3	7400800	<0.3	<0.3	0.3	7400800
2-Chlorophenol	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
2-Methylnaphthalene	ug/L	<0.2	7400800	<0.2	7400800	<0.2	<0.2	0.2	7400800
3,3'-Dichlorobenzidine	ug/L	<0.5	7400800	<0.5	7400800	<0.5	<0.5	0.5	7400800
Acenaphthene	ug/L	<0.2	7400800	<0.2	7400800	0.3	0.2	0.2	7400800
Acenaphthylene	ug/L	<0.2	7400800	<0.2	7400800	<0.2	<0.2	0.2	7400800
Anthracene	ug/L	<0.05	7400800	<0.05	7400800	<0.05	<0.05	0.05	7400800
Benzo(a)anthracene	ug/L	<0.05	7400800	<0.05	7400800	<0.05	<0.05	0.05	7400800
Benzo(a)pyrene	ug/L	<0.01	7400800	0.02	7400800	<0.01	<0.01	0.01	7400800
Benzo(b/j)fluoranthene	ug/L	<0.05	7400800	<0.05	7400800	<0.05	<0.05	0.05	7400800
Benzo(g,h,i)perylene	ug/L	<0.05	7400800	<0.05	7400800	<0.05	<0.05	0.05	7400800
Benzo(k)fluoranthene	ug/L	<0.05	7400800	<0.05	7400800	<0.05	<0.05	0.05	7400800
Biphenyl	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
Bis(2-chloroethyl)ether	ug/L	<0.5	7400800	<0.5	7400800	<0.5	<0.5	0.5	7400800
Bis(2-chloroisopropyl)ether	ug/L	<0.5	7400800	<0.5	7400800	<0.5	<0.5	0.5	7400800
Bis(2-ethylhexyl)phthalate	ug/L	<1	7400800	<1	7400800	<1	<1	1	7400800
Chrysene	ug/L	<0.05	7400800	<0.05	7400800	<0.05	<0.05	0.05	7400800
Dibenzo(a,h)anthracene	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
Diethyl phthalate	ug/L	0.1	7400800	1.0	7400800	0.1	0.1	0.1	7400800
Dimethyl phthalate	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
Fluoranthene	ug/L	<0.2	7400800	<0.2	7400800	<0.2	<0.2	0.2	7400800
Fluorene	ug/L	<0.2	7400800	<0.2	7400800	<0.2	0.2	0.2	7400800
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
Naphthalene	ug/L	<0.2	7400800	<0.2	7400800	<0.2	<0.2	0.2	7400800
p-Chloroaniline	ug/L	<1	7400800	<1	7400800	<1	<1	1	7400800
Pentachlorophenol	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
Phenanthrene	ug/L	<0.1	7400800	<0.1	7400800	<0.1	<0.1	0.1	7400800
Phenol	ug/L	<0.5	7400800	<0.5	7400800	<0.5	1.2	0.5	7400800

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

BV Labs ID		PTD376		PTD378		PTD379	PTD380		
Sampling Date		2021/06/02		2021/06/02		2021/06/02	2021/06/02		
COC Number		796018-01-01		796018-01-01		796018-01-01	796018-01-01		
	UNITS	MW-10	QC Batch	MW208	QC Batch	MW210	MW211	RDL	QC Batch
Pyrene	ug/L	<0.05	7400800	0.05	7400800	0.05	<0.05	0.05	7400800
2,3,4,6 + 2,3,4,5-Tetrachlorophenol	ug/L	<1	7400800	<1	7400800	<1	<1	1	7400800
Acridine	ug/L	<2	7400800	<2	7400800	<2	<2	2	7400800
Benzo(e)pyrene	ug/L	<0.05	7400800	<0.05	7400800	<0.05	<0.05	0.05	7400800
Perylene	ug/L	<0.05	7400800	<0.05	7400800	<0.05	<0.05	0.05	7400800
Calculated Parameters									
2,4- & 2,6-Dinitrotoluene	ug/L	<0.35	7391105	<0.35	7391104	<0.35	<0.35	0.35	7391105
Methylnaphthalene, 2-(1-)	ug/L	<0.28	7389174	<0.28	7389174	<0.28	<0.28	0.28	7389174
Surrogate Recovery (%)									
2,4,6-Tribromophenol	%	77	7400800	105	7400800	112	106		7400800
2-Fluorobiphenyl	%	51	7400800	73	7400800	78	65		7400800
D14-Terphenyl (FS)	%	78	7400800	97	7400800	99	98		7400800
D5-Nitrobenzene	%	77	7400800	102	7400800	96	93		7400800

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

BV Labs ID		PTD381		PTD388		
Sampling Date		2021/06/01		2021/06/02		
COC Number		796018-01-01		796018-31-01		
	UNITS	MW212	QC Batch	DUP-6	RDL	QC Batch
Semivolatile Organics						
1,2,4-Trichlorobenzene	ug/L	<0.1	7400800	<0.1	0.1	7400800
1-Methylnaphthalene	ug/L	<0.2	7400800	<0.2	0.2	7400800
2,4,5-Trichlorophenol	ug/L	<0.2	7400800	<0.2	0.2	7400800
2,4,6-Trichlorophenol	ug/L	<0.2	7400800	<0.2	0.2	7400800
2,4-Dichlorophenol	ug/L	<0.1	7400800	<0.1	0.1	7400800
2,4-Dimethylphenol	ug/L	<0.5	7400800	4.6	0.5	7400800
2,4-Dinitrophenol	ug/L	<2	7400800	<2	2	7400800
2,4-Dinitrotoluene	ug/L	<0.3	7400800	<0.3	0.3	7400800
2,6-Dinitrotoluene	ug/L	<0.3	7400800	<0.3	0.3	7400800
2-Chlorophenol	ug/L	<0.1	7400800	<0.1	0.1	7400800
2-Methylnaphthalene	ug/L	<0.2	7400800	<0.2	0.2	7400800
3,3'-Dichlorobenzidine	ug/L	<0.5	7400800	<0.5	0.5	7400800
Acenaphthene	ug/L	<0.2	7400800	<0.2	0.2	7400800
Acenaphthylene	ug/L	<0.2	7400800	<0.2	0.2	7400800
Anthracene	ug/L	<0.05	7400800	<0.05	0.05	7400800
Benzo(a)anthracene	ug/L	<0.05	7400800	<0.05	0.05	7400800
Benzo(a)pyrene	ug/L	0.02	7400800	0.02	0.01	7400800
Benzo(b/j)fluoranthene	ug/L	<0.05	7400800	<0.05	0.05	7400800
Benzo(g,h,i)perylene	ug/L	<0.05	7400800	<0.05	0.05	7400800
Benzo(k)fluoranthene	ug/L	<0.05	7400800	<0.05	0.05	7400800
Biphenyl	ug/L	<0.1	7400800	<0.1	0.1	7400800
Bis(2-chloroethyl)ether	ug/L	<0.5	7400800	<0.5	0.5	7400800
Bis(2-chloroisopropyl)ether	ug/L	<0.5	7400800	<0.5	0.5	7400800
Bis(2-ethylhexyl)phthalate	ug/L	<1	7400800	<1	1	7400800
Chrysene	ug/L	<0.05	7400800	<0.05	0.05	7400800
Dibenzo(a,h)anthracene	ug/L	<0.1	7400800	<0.1	0.1	7400800
Diethyl phthalate	ug/L	<0.1	7400800	0.9	0.1	7400800
Dimethyl phthalate	ug/L	<0.1	7400800	<0.1	0.1	7400800
Fluoranthene	ug/L	<0.2	7400800	<0.2	0.2	7400800
Fluorene	ug/L	<0.2	7400800	<0.2	0.2	7400800
Indeno(1,2,3-cd)pyrene	ug/L	<0.1	7400800	<0.1	0.1	7400800
Naphthalene	ug/L	<0.2	7400800	<0.2	0.2	7400800
p-Chloroaniline	ug/L	<1	7400800	<1	1	7400800
Pentachlorophenol	ug/L	<0.1	7400800	<0.1	0.1	7400800
Phenanthrene	ug/L	<0.1	7400800	<0.1	0.1	7400800
Phenol	ug/L	<0.5	7400800	<0.5	0.5	7400800

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 SEMIVOLATILES PACKAGE (WATER)

BV Labs ID		PTD381		PTD388		
Sampling Date		2021/06/01		2021/06/02		
COC Number		796018-01-01		796018-31-01		
	UNITS	MW212	QC Batch	DUP-6	RDL	QC Batch
Pyrene	ug/L	<0.05	7400800	0.05	0.05	7400800
2,3,4,6 + 2,3,4,5-Tetrachlorophenol	ug/L	<1	7400800	<1	1	7400800
Acridine	ug/L	<2	7400800	<2	2	7400800
Benzo(e)pyrene	ug/L	<0.05	7400800	<0.05	0.05	7400800
Perylene	ug/L	<0.05	7400800	<0.05	0.05	7400800
Calculated Parameters						
2,4- & 2,6-Dinitrotoluene	ug/L	<0.35	7391105	<0.35	0.35	7391104
Methylnaphthalene, 2-(1-)	ug/L	<0.28	7389174	<0.28	0.28	7389174
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	113	7400800	104		7400800
2-Fluorobiphenyl	%	72	7400800	60		7400800
D14-Terphenyl (FS)	%	99	7400800	86		7400800
D5-Nitrobenzene	%	104	7400800	94		7400800

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 VOCS BY HS (WATER)

BV Labs ID		PTD389		
Sampling Date		2021/06/01		
COC Number		796018-31-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7391102

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

BV Labs ID: PTD375
Sample ID: MW-9
Matrix: Water

Collected: 2021/06/02
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7395872	2021/06/08	2021/06/09	(Kent) Maolin Li
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7395854	2021/06/08	2021/06/09	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/10	Yang (Philip) Yu

BV Labs ID: PTD376
Sample ID: MW-10
Matrix: Water

Collected: 2021/06/02
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/14	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	7400800	2021/06/10	2021/06/11	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7390569	N/A	2021/06/11	Automated Statchk
Dinitrotoluene Sum	CALC	7391105	N/A	2021/06/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7394536	2021/06/08	2021/06/08	Ravinder Gaidhu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/10	Yang (Philip) Yu

BV Labs ID: PTD376 Dup
Sample ID: MW-10
Matrix: Water

Collected: 2021/06/02
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs ID: PTD377
Sample ID: MW-11
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	7390569	N/A	2021/06/11	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7395872	2021/06/08	2021/06/09	(Kent) Maolin Li
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7395854	2021/06/08	2021/06/09	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs ID: PTD378
Sample ID: MW208
Matrix: Water

Collected: 2021/06/02
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/14	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	7400800	2021/06/10	2021/06/11	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7390569	N/A	2021/06/11	Automated Statchk
Dinitrotoluene Sum	CALC	7391104	N/A	2021/06/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7394536	2021/06/08	2021/06/08	Ravinder Gaidhu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs Job #: C1F2589
Report Date: 2021/06/14

Pinchin Ltd
Client Project #: 267991.007
Sampler Initials: MK

TEST SUMMARY

BV Labs ID: PTD379
Sample ID: MW210
Matrix: Water

Collected: 2021/06/02
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/14	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	7400800	2021/06/10	2021/06/11	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Dinitrotoluene Sum	CALC	7391105	N/A	2021/06/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7394536	2021/06/08	2021/06/08	Ravinder Gaidhu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs ID: PTD380
Sample ID: MW211
Matrix: Water

Collected: 2021/06/02
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/14	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	7400800	2021/06/10	2021/06/11	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Dinitrotoluene Sum	CALC	7391105	N/A	2021/06/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7394536	2021/06/08	2021/06/08	Ravinder Gaidhu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs ID: PTD381
Sample ID: MW212
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/14	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	7400800	2021/06/10	2021/06/11	Milijana Avramovic
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Dinitrotoluene Sum	CALC	7391105	N/A	2021/06/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7394536	2021/06/08	2021/06/08	Ravinder Gaidhu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs ID: PTD382
Sample ID: MW-14A
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7391613	N/A	2021/06/08	Nan Raykha

BV Labs ID: PTD383
Sample ID: MW214
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7395872	2021/06/08	2021/06/09	(Kent) Maolin Li
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7395854	2021/06/08	2021/06/09	Mitesh Raj

TEST SUMMARY

BV Labs ID: PTD383
Sample ID: MW214
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs ID: PTD384
Sample ID: MW215
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7395872	2021/06/08	2021/06/09	(Kent) Maolin Li
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7395854	2021/06/08	2021/06/09	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs ID: PTD385
Sample ID: MW216
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7395872	2021/06/08	2021/06/09	(Kent) Maolin Li
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7395854	2021/06/08	2021/06/09	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

BV Labs ID: PTD386
Sample ID: DUP-4
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7391613	N/A	2021/06/08	Nan Raykha

BV Labs ID: PTD387
Sample ID: DUP-5
Matrix: Water

Collected: 2021/06/02
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7395872	2021/06/08	2021/06/09	(Kent) Maolin Li
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7395854	2021/06/08	2021/06/09	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

TEST SUMMARY

BV Labs ID: PTD388
Sample ID: DUP-6
Matrix: Water

Collected: 2021/06/02
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7389174	N/A	2021/06/14	Automated Statchk
ABN Compounds in Water by SIM GC/MS	GC/MS	7400800	2021/06/10	2021/06/11	Milijana Avramovic
Dinitrotoluene Sum	CALC	7391104	N/A	2021/06/14	Automated Statchk

BV Labs ID: PTD389
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2021/06/01
Shipped:
Received: 2021/06/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7391102	N/A	2021/06/11	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7399851	N/A	2021/06/11	Yang (Philip) Yu

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.0°C
Package 2	8.7°C

Cooler custody seals were present and intact .

All 40 ml vials for F1BTEX and VOC analyses contained visible sediment for samples MW-9, MW-10, MW-11, MW208, MW210,MW211 ,MW212,MW214, DUP-5 and DUP-6 .
All 100 ml and 1 L amber glass bottles for F2-F4 , PAH and ABN analyses contained visible sediment, which was included in the extraction for samples MW-9, MW-10, MW-11, MW208, MW210,MW211 , MW212,MW214, DUP-5 and DUP-6.

Results relate only to the items tested.

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7391613	N_R	Matrix Spike	Dissolved Antimony (Sb)	2021/06/07		109	%	80 - 120
			Dissolved Arsenic (As)	2021/06/07		106	%	80 - 120
			Dissolved Barium (Ba)	2021/06/07		103	%	80 - 120
			Dissolved Beryllium (Be)	2021/06/07		110	%	80 - 120
			Dissolved Boron (B)	2021/06/07		109	%	80 - 120
			Dissolved Cadmium (Cd)	2021/06/07		105	%	80 - 120
			Dissolved Chromium (Cr)	2021/06/07		107	%	80 - 120
			Dissolved Cobalt (Co)	2021/06/07		104	%	80 - 120
			Dissolved Copper (Cu)	2021/06/07		105	%	80 - 120
			Dissolved Lead (Pb)	2021/06/07		106	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/06/07		112	%	80 - 120
			Dissolved Nickel (Ni)	2021/06/07		101	%	80 - 120
			Dissolved Selenium (Se)	2021/06/07		99	%	80 - 120
			Dissolved Silver (Ag)	2021/06/07		72 (1)	%	80 - 120
			Dissolved Sodium (Na)	2021/06/07		NC	%	80 - 120
			Dissolved Thallium (Tl)	2021/06/07		105	%	80 - 120
			Dissolved Uranium (U)	2021/06/07		106	%	80 - 120
			Dissolved Vanadium (V)	2021/06/07		107	%	80 - 120
			Dissolved Zinc (Zn)	2021/06/07		104	%	80 - 120
7391613	N_R	Spiked Blank	Dissolved Antimony (Sb)	2021/06/07		100	%	80 - 120
			Dissolved Arsenic (As)	2021/06/07		101	%	80 - 120
			Dissolved Barium (Ba)	2021/06/07		100	%	80 - 120
			Dissolved Beryllium (Be)	2021/06/07		98	%	80 - 120
			Dissolved Boron (B)	2021/06/07		97	%	80 - 120
			Dissolved Cadmium (Cd)	2021/06/07		98	%	80 - 120
			Dissolved Chromium (Cr)	2021/06/07		102	%	80 - 120
			Dissolved Cobalt (Co)	2021/06/07		99	%	80 - 120
			Dissolved Copper (Cu)	2021/06/07		102	%	80 - 120
			Dissolved Lead (Pb)	2021/06/07		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/06/07		103	%	80 - 120
			Dissolved Nickel (Ni)	2021/06/07		99	%	80 - 120
			Dissolved Selenium (Se)	2021/06/07		98	%	80 - 120
			Dissolved Silver (Ag)	2021/06/07		100	%	80 - 120
			Dissolved Sodium (Na)	2021/06/07		99	%	80 - 120
			Dissolved Thallium (Tl)	2021/06/07		100	%	80 - 120
			Dissolved Uranium (U)	2021/06/07		100	%	80 - 120
			Dissolved Vanadium (V)	2021/06/07		102	%	80 - 120
			Dissolved Zinc (Zn)	2021/06/07		102	%	80 - 120
7391613	N_R	Method Blank	Dissolved Antimony (Sb)	2021/06/07	<0.50		ug/L	
			Dissolved Arsenic (As)	2021/06/07	<1.0		ug/L	
			Dissolved Barium (Ba)	2021/06/07	<2.0		ug/L	
			Dissolved Beryllium (Be)	2021/06/07	<0.40		ug/L	
			Dissolved Boron (B)	2021/06/07	<10		ug/L	
			Dissolved Cadmium (Cd)	2021/06/07	<0.090		ug/L	
			Dissolved Chromium (Cr)	2021/06/07	<5.0		ug/L	
			Dissolved Cobalt (Co)	2021/06/07	<0.50		ug/L	
			Dissolved Copper (Cu)	2021/06/07	<0.90		ug/L	
			Dissolved Lead (Pb)	2021/06/07	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2021/06/07	<0.50		ug/L	
			Dissolved Nickel (Ni)	2021/06/07	<1.0		ug/L	
			Dissolved Selenium (Se)	2021/06/07	<2.0		ug/L	
			Dissolved Silver (Ag)	2021/06/07	<0.090		ug/L	
			Dissolved Sodium (Na)	2021/06/07	<100		ug/L	
			Dissolved Thallium (Tl)	2021/06/07	<0.050		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Uranium (U)	2021/06/07	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/06/07	<0.50		ug/L	
			Dissolved Zinc (Zn)	2021/06/07	<5.0		ug/L	
7391613	N_R	RPD	Dissolved Arsenic (As)	2021/06/07	NC		%	20
			Dissolved Boron (B)	2021/06/07	5.3		%	20
7394536	RGA	Matrix Spike	o-Terphenyl	2021/06/08		94	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/08		96	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/08		96	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/08		82	%	60 - 130
7394536	RGA	Spiked Blank	o-Terphenyl	2021/06/08		94	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/08		95	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/08		94	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/08		80	%	60 - 130
7394536	RGA	Method Blank	o-Terphenyl	2021/06/08		92	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/08	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/06/08	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/06/08	<200		ug/L	
7394536	RGA	RPD	F2 (C10-C16 Hydrocarbons)	2021/06/08	12		%	30
			F3 (C16-C34 Hydrocarbons)	2021/06/08	19		%	30
			F4 (C34-C50 Hydrocarbons)	2021/06/08	NC		%	30
7395854	RAJ	Matrix Spike [PTD375-02]	D10-Anthracene	2021/06/09		98	%	50 - 130
			D14-Terphenyl (FS)	2021/06/09		78	%	50 - 130
			D8-Acenaphthylene	2021/06/09		88	%	50 - 130
			Acenaphthene	2021/06/09		103	%	50 - 130
			Acenaphthylene	2021/06/09		100	%	50 - 130
			Anthracene	2021/06/09		98	%	50 - 130
			Benzo(a)anthracene	2021/06/09		78	%	50 - 130
			Benzo(a)pyrene	2021/06/09		61	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/09		71	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/09		65	%	50 - 130
			Benzo(k)fluoranthene	2021/06/09		62	%	50 - 130
			Chrysene	2021/06/09		75	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/09		59	%	50 - 130
			Fluoranthene	2021/06/09		100	%	50 - 130
			Fluorene	2021/06/09		103	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/09		72	%	50 - 130
			1-Methylnaphthalene	2021/06/09		90	%	50 - 130
			2-Methylnaphthalene	2021/06/09		87	%	50 - 130
			Naphthalene	2021/06/09		94	%	50 - 130
			Phenanthrene	2021/06/09		104	%	50 - 130
			Pyrene	2021/06/09		95	%	50 - 130
7395854	RAJ	Spiked Blank	D10-Anthracene	2021/06/09		111	%	50 - 130
			D14-Terphenyl (FS)	2021/06/09		98	%	50 - 130
			D8-Acenaphthylene	2021/06/09		101	%	50 - 130
			Acenaphthene	2021/06/09		104	%	50 - 130
			Acenaphthylene	2021/06/09		101	%	50 - 130
			Anthracene	2021/06/09		105	%	50 - 130
			Benzo(a)anthracene	2021/06/09		98	%	50 - 130
			Benzo(a)pyrene	2021/06/09		80	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/09		95	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/09		81	%	50 - 130
			Benzo(k)fluoranthene	2021/06/09		84	%	50 - 130
			Chrysene	2021/06/09		100	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/09		69	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Fluoranthene	2021/06/09		114	%	50 - 130
			Fluorene	2021/06/09		105	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/09		91	%	50 - 130
			1-Methylnaphthalene	2021/06/09		91	%	50 - 130
			2-Methylnaphthalene	2021/06/09		87	%	50 - 130
			Naphthalene	2021/06/09		94	%	50 - 130
			Phenanthrene	2021/06/09		109	%	50 - 130
			Pyrene	2021/06/09		112	%	50 - 130
7395854	RAJ	Method Blank	D10-Anthracene	2021/06/09		106	%	50 - 130
			D14-Terphenyl (FS)	2021/06/09		90	%	50 - 130
			D8-Acenaphthylene	2021/06/09		93	%	50 - 130
			Acenaphthene	2021/06/09	<0.050		ug/L	
			Acenaphthylene	2021/06/09	<0.050		ug/L	
			Anthracene	2021/06/09	<0.050		ug/L	
			Benzo(a)anthracene	2021/06/09	<0.050		ug/L	
			Benzo(a)pyrene	2021/06/09	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2021/06/09	<0.050		ug/L	
			Benzo(g,h,i)perylene	2021/06/09	<0.050		ug/L	
			Benzo(k)fluoranthene	2021/06/09	<0.050		ug/L	
			Chrysene	2021/06/09	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2021/06/09	<0.050		ug/L	
			Fluoranthene	2021/06/09	<0.050		ug/L	
			Fluorene	2021/06/09	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2021/06/09	<0.050		ug/L	
			1-Methylnaphthalene	2021/06/09	<0.050		ug/L	
			2-Methylnaphthalene	2021/06/09	<0.050		ug/L	
			Naphthalene	2021/06/09	<0.050		ug/L	
			Phenanthrene	2021/06/09	<0.030		ug/L	
			Pyrene	2021/06/09	<0.050		ug/L	
7395854	RAJ	RPD	Acenaphthene	2021/06/09	NC		%	30
			Acenaphthylene	2021/06/09	NC		%	30
			Anthracene	2021/06/09	NC		%	30
			Benzo(a)anthracene	2021/06/09	NC		%	30
			Benzo(a)pyrene	2021/06/09	NC		%	30
			Benzo(b/j)fluoranthene	2021/06/09	NC		%	30
			Benzo(g,h,i)perylene	2021/06/09	NC		%	30
			Benzo(k)fluoranthene	2021/06/09	NC		%	30
			Chrysene	2021/06/09	NC		%	30
			Dibenzo(a,h)anthracene	2021/06/09	NC		%	30
			Fluoranthene	2021/06/09	NC		%	30
			Fluorene	2021/06/09	NC		%	30
			Indeno(1,2,3-cd)pyrene	2021/06/09	NC		%	30
			1-Methylnaphthalene	2021/06/09	NC		%	30
			2-Methylnaphthalene	2021/06/09	NC		%	30
			Naphthalene	2021/06/09	NC		%	30
			Phenanthrene	2021/06/09	NC		%	30
			Pyrene	2021/06/09	NC		%	30
7395872	KLI	Matrix Spike	o-Terphenyl	2021/06/08		83	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/08		82	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/08		87	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/08		87	%	60 - 130
7395872	KLI	Spiked Blank	o-Terphenyl	2021/06/08		83	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/08		81	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/08		87	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F4 (C34-C50 Hydrocarbons)	2021/06/08		86	%	60 - 130
7395872	KLI	Method Blank	o-Terphenyl	2021/06/08		85	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/08	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/06/08	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/06/08	<200		ug/L	
7395872	KLI	RPD	F2 (C10-C16 Hydrocarbons)	2021/06/09	0.42		%	30
			F3 (C16-C34 Hydrocarbons)	2021/06/09	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/06/09	NC		%	30
7399851	YY	Matrix Spike [PTD375-03]	4-Bromofluorobenzene	2021/06/10		92	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/10		111	%	70 - 130
			D8-Toluene	2021/06/10		108	%	70 - 130
			Acetone (2-Propanone)	2021/06/10		92	%	60 - 140
			Benzene	2021/06/10		95	%	70 - 130
			Bromodichloromethane	2021/06/10		100	%	70 - 130
			Bromoform	2021/06/10		89	%	70 - 130
			Bromomethane	2021/06/10		96	%	60 - 140
			Carbon Tetrachloride	2021/06/10		103	%	70 - 130
			Chlorobenzene	2021/06/10		96	%	70 - 130
			Chloroform	2021/06/10		100	%	70 - 130
			Dibromochloromethane	2021/06/10		84	%	70 - 130
			1,2-Dichlorobenzene	2021/06/10		92	%	70 - 130
			1,3-Dichlorobenzene	2021/06/10		88	%	70 - 130
			1,4-Dichlorobenzene	2021/06/10		104	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/06/10		118	%	60 - 140
			1,1-Dichloroethane	2021/06/10		84	%	70 - 130
			1,2-Dichloroethane	2021/06/10		102	%	70 - 130
			1,1-Dichloroethylene	2021/06/10		91	%	70 - 130
			cis-1,2-Dichloroethylene	2021/06/10		92	%	70 - 130
			trans-1,2-Dichloroethylene	2021/06/10		85	%	70 - 130
			1,2-Dichloropropane	2021/06/10		103	%	70 - 130
			cis-1,3-Dichloropropene	2021/06/10		98	%	70 - 130
			trans-1,3-Dichloropropene	2021/06/10		105	%	70 - 130
			Ethylbenzene	2021/06/10		77	%	70 - 130
			Ethylene Dibromide	2021/06/10		85	%	70 - 130
			Hexane	2021/06/10		90	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/06/10		105	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/06/10		90	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/10		101	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/06/10		75	%	70 - 130
			Styrene	2021/06/10		90	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/06/10		92	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/06/10		84	%	70 - 130
			Tetrachloroethylene	2021/06/10		93	%	70 - 130
			Toluene	2021/06/10		95	%	70 - 130
			1,1,1-Trichloroethane	2021/06/10		106	%	70 - 130
			1,1,2-Trichloroethane	2021/06/10		108	%	70 - 130
			Trichloroethylene	2021/06/10		101	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/06/10		90	%	70 - 130
			Vinyl Chloride	2021/06/10		122	%	70 - 130
			p+m-Xylene	2021/06/10		80	%	70 - 130
			o-Xylene	2021/06/10		80	%	70 - 130
			F1 (C6-C10)	2021/06/10		108	%	60 - 140
7399851	YY	Spiked Blank	4-Bromofluorobenzene	2021/06/10		101	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/10		100	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D8-Toluene	2021/06/10		110	%	70 - 130
			Acetone (2-Propanone)	2021/06/10		97	%	60 - 140
			Benzene	2021/06/10		84	%	70 - 130
			Bromodichloromethane	2021/06/10		112	%	70 - 130
			Bromoform	2021/06/10		93	%	70 - 130
			Bromomethane	2021/06/10		88	%	60 - 140
			Carbon Tetrachloride	2021/06/10		94	%	70 - 130
			Chlorobenzene	2021/06/10		90	%	70 - 130
			Chloroform	2021/06/10		98	%	70 - 130
			Dibromochloromethane	2021/06/10		86	%	70 - 130
			1,2-Dichlorobenzene	2021/06/10		89	%	70 - 130
			1,3-Dichlorobenzene	2021/06/10		84	%	70 - 130
			1,4-Dichlorobenzene	2021/06/10		102	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/06/10		85	%	60 - 140
			1,1-Dichloroethane	2021/06/10		87	%	70 - 130
			1,2-Dichloroethane	2021/06/10		87	%	70 - 130
			1,1-Dichloroethylene	2021/06/10		88	%	70 - 130
			cis-1,2-Dichloroethylene	2021/06/10		106	%	70 - 130
			trans-1,2-Dichloroethylene	2021/06/10		84	%	70 - 130
			1,2-Dichloropropane	2021/06/10		106	%	70 - 130
			cis-1,3-Dichloropropene	2021/06/10		100	%	70 - 130
			trans-1,3-Dichloropropene	2021/06/10		97	%	70 - 130
			Ethylbenzene	2021/06/10		86	%	70 - 130
			Ethylene Dibromide	2021/06/10		92	%	70 - 130
			Hexane	2021/06/10		87	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/06/10		122	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/06/10		124	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/10		124	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/06/10		81	%	70 - 130
			Styrene	2021/06/10		101	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/06/10		98	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/06/10		98	%	70 - 130
			Tetrachloroethylene	2021/06/10		85	%	70 - 130
			Toluene	2021/06/10		93	%	70 - 130
			1,1,1-Trichloroethane	2021/06/10		93	%	70 - 130
			1,1,2-Trichloroethane	2021/06/10		104	%	70 - 130
			Trichloroethylene	2021/06/10		101	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/06/10		88	%	70 - 130
			Vinyl Chloride	2021/06/10		100	%	70 - 130
			p+m-Xylene	2021/06/10		88	%	70 - 130
			o-Xylene	2021/06/10		91	%	70 - 130
			F1 (C6-C10)	2021/06/10		96	%	60 - 140
7399851	YY	Method Blank	4-Bromofluorobenzene	2021/06/10		90	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/10		112	%	70 - 130
			D8-Toluene	2021/06/10		87	%	70 - 130
			Acetone (2-Propanone)	2021/06/10	<10		ug/L	
			Benzene	2021/06/10	<0.20		ug/L	
			Bromodichloromethane	2021/06/10	<0.50		ug/L	
			Bromoform	2021/06/10	<1.0		ug/L	
			Bromomethane	2021/06/10	<0.50		ug/L	
			Carbon Tetrachloride	2021/06/10	<0.20		ug/L	
			Chlorobenzene	2021/06/10	<0.20		ug/L	
			Chloroform	2021/06/10	<0.20		ug/L	
			Dibromochloromethane	2021/06/10	<0.50		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichlorobenzene	2021/06/10	<0.50		ug/L	
			1,3-Dichlorobenzene	2021/06/10	<0.50		ug/L	
			1,4-Dichlorobenzene	2021/06/10	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2021/06/10	<1.0		ug/L	
			1,1-Dichloroethane	2021/06/10	<0.20		ug/L	
			1,2-Dichloroethane	2021/06/10	<0.50		ug/L	
			1,1-Dichloroethylene	2021/06/10	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2021/06/10	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2021/06/10	<0.50		ug/L	
			1,2-Dichloropropane	2021/06/10	<0.20		ug/L	
			cis-1,3-Dichloropropene	2021/06/10	<0.30		ug/L	
			trans-1,3-Dichloropropene	2021/06/10	<0.40		ug/L	
			Ethylbenzene	2021/06/10	<0.20		ug/L	
			Ethylene Dibromide	2021/06/10	<0.20		ug/L	
			Hexane	2021/06/10	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2021/06/10	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2021/06/10	<10		ug/L	
			Methyl Isobutyl Ketone	2021/06/10	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2021/06/10	<0.50		ug/L	
			Styrene	2021/06/10	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2021/06/10	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2021/06/10	<0.50		ug/L	
			Tetrachloroethylene	2021/06/10	<0.20		ug/L	
			Toluene	2021/06/10	<0.20		ug/L	
			1,1,1-Trichloroethane	2021/06/10	<0.20		ug/L	
			1,1,2-Trichloroethane	2021/06/10	<0.50		ug/L	
			Trichloroethylene	2021/06/10	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2021/06/10	<0.50		ug/L	
			Vinyl Chloride	2021/06/10	<0.20		ug/L	
			p+m-Xylene	2021/06/10	<0.20		ug/L	
			o-Xylene	2021/06/10	<0.20		ug/L	
			Total Xylenes	2021/06/10	<0.20		ug/L	
			F1 (C6-C10)	2021/06/10	<25		ug/L	
			F1 (C6-C10) - BTEX	2021/06/10	<25		ug/L	
7399851	YY	RPD [PTD376-03]	Acetone (2-Propanone)	2021/06/11	NC		%	30
			Benzene	2021/06/11	NC		%	30
			Bromodichloromethane	2021/06/11	NC		%	30
			Bromoform	2021/06/11	NC		%	30
			Bromomethane	2021/06/11	NC		%	30
			Carbon Tetrachloride	2021/06/11	NC		%	30
			Chlorobenzene	2021/06/11	NC		%	30
			Chloroform	2021/06/11	NC		%	30
			Dibromochloromethane	2021/06/11	NC		%	30
			1,2-Dichlorobenzene	2021/06/11	NC		%	30
			1,3-Dichlorobenzene	2021/06/11	NC		%	30
			1,4-Dichlorobenzene	2021/06/11	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2021/06/11	NC		%	30
			1,1-Dichloroethane	2021/06/11	NC		%	30
			1,2-Dichloroethane	2021/06/11	NC		%	30
			1,1-Dichloroethylene	2021/06/11	NC		%	30
			cis-1,2-Dichloroethylene	2021/06/11	NC		%	30
			trans-1,2-Dichloroethylene	2021/06/11	NC		%	30
			1,2-Dichloropropane	2021/06/11	NC		%	30
			cis-1,3-Dichloropropene	2021/06/11	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			trans-1,3-Dichloropropene	2021/06/11	NC		%	30
			Ethylbenzene	2021/06/11	NC		%	30
			Ethylene Dibromide	2021/06/11	NC		%	30
			Hexane	2021/06/11	NC		%	30
			Methylene Chloride(Dichloromethane)	2021/06/11	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2021/06/11	NC		%	30
			Methyl Isobutyl Ketone	2021/06/11	NC		%	30
			Methyl t-butyl ether (MTBE)	2021/06/11	NC		%	30
			Styrene	2021/06/11	NC		%	30
			1,1,1,2-Tetrachloroethane	2021/06/11	NC		%	30
			1,1,2,2-Tetrachloroethane	2021/06/11	NC		%	30
			Tetrachloroethylene	2021/06/11	NC		%	30
			Toluene	2021/06/11	NC		%	30
			1,1,1-Trichloroethane	2021/06/11	NC		%	30
			1,1,2-Trichloroethane	2021/06/11	NC		%	30
			Trichloroethylene	2021/06/11	NC		%	30
			Trichlorofluoromethane (FREON 11)	2021/06/11	NC		%	30
			Vinyl Chloride	2021/06/11	NC		%	30
			p+m-Xylene	2021/06/11	NC		%	30
			o-Xylene	2021/06/11	NC		%	30
			Total Xylenes	2021/06/11	NC		%	30
			F1 (C6-C10)	2021/06/11	NC		%	30
			F1 (C6-C10) - BTEX	2021/06/11	NC		%	30
7400800	MA	Matrix Spike	2,4,6-Tribromophenol	2021/06/11		104	%	50 - 130
			2-Fluorobiphenyl	2021/06/11		78	%	50 - 130
			D14-Terphenyl (FS)	2021/06/11		98	%	50 - 130
			D5-Nitrobenzene	2021/06/11		99	%	50 - 130
			1,2,4-Trichlorobenzene	2021/06/11		79	%	50 - 130
			1-Methylnaphthalene	2021/06/11		94	%	50 - 130
			2,4,5-Trichlorophenol	2021/06/11		99	%	50 - 130
			2,4,6-Trichlorophenol	2021/06/11		95	%	50 - 130
			2,4-Dichlorophenol	2021/06/11		124	%	50 - 130
			2,4-Dimethylphenol	2021/06/11		65	%	30 - 130
			2,4-Dinitrophenol	2021/06/11		115	%	30 - 130
			2,4-Dinitrotoluene	2021/06/11		104	%	50 - 130
			2,6-Dinitrotoluene	2021/06/11		100	%	50 - 130
			2-Chlorophenol	2021/06/11		89	%	50 - 130
			2-Methylnaphthalene	2021/06/11		88	%	50 - 130
			3,3'-Dichlorobenzidine	2021/06/11		95	%	30 - 130
			Acenaphthene	2021/06/11		95	%	50 - 130
			Acenaphthylene	2021/06/11		93	%	50 - 130
			Anthracene	2021/06/11		95	%	50 - 130
			Benzo(a)anthracene	2021/06/11		108	%	50 - 130
			Benzo(a)pyrene	2021/06/11		99	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/11		118	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/11		80	%	50 - 130
			Benzo(k)fluoranthene	2021/06/11		110	%	50 - 130
			Biphenyl	2021/06/11		89	%	50 - 130
			Bis(2-chloroethyl)ether	2021/06/11		86	%	50 - 130
			Bis(2-chloroisopropyl)ether	2021/06/11		73	%	50 - 130
			Bis(2-ethylhexyl)phthalate	2021/06/11		115	%	50 - 130
			Chrysene	2021/06/11		108	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/11		89	%	50 - 130
			Diethyl phthalate	2021/06/11		107	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dimethyl phthalate	2021/06/11		108	%	50 - 130
			Fluoranthene	2021/06/11		108	%	50 - 130
			Fluorene	2021/06/11		97	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/11		78	%	50 - 130
			Naphthalene	2021/06/11		92	%	50 - 130
			p-Chloroaniline	2021/06/11		103	%	30 - 130
			Pentachlorophenol	2021/06/11		75	%	50 - 130
			Phenanthrene	2021/06/11		97	%	50 - 130
			Phenol	2021/06/11		41	%	30 - 130
			Pyrene	2021/06/11		110	%	50 - 130
			2,3,4,6 + 2,3,4,5-Tetrachlorophenol	2021/06/11		101	%	30 - 130
			Acridine	2021/06/11		98	%	30 - 130
			Benzo(e)pyrene	2021/06/11		119	%	30 - 130
			Perylene	2021/06/11		103	%	30 - 130
7400800	MA	Spiked Blank	2,4,6-Tribromophenol	2021/06/11		93	%	50 - 130
			2-Fluorobiphenyl	2021/06/11		85	%	50 - 130
			D14-Terphenyl (FS)	2021/06/11		90	%	50 - 130
			D5-Nitrobenzene	2021/06/11		107	%	50 - 130
			1,2,4-Trichlorobenzene	2021/06/11		75	%	50 - 130
			1-Methylnaphthalene	2021/06/11		94	%	50 - 130
			2,4,5-Trichlorophenol	2021/06/11		93	%	50 - 130
			2,4,6-Trichlorophenol	2021/06/11		91	%	50 - 130
			2,4-Dichlorophenol	2021/06/11		116	%	50 - 130
			2,4-Dimethylphenol	2021/06/11		92	%	30 - 130
			2,4-Dinitrophenol	2021/06/11		109	%	30 - 130
			2,4-Dinitrotoluene	2021/06/11		103	%	50 - 130
			2,6-Dinitrotoluene	2021/06/11		94	%	50 - 130
			2-Chlorophenol	2021/06/11		87	%	50 - 130
			2-Methylnaphthalene	2021/06/11		89	%	50 - 130
			3,3'-Dichlorobenzidine	2021/06/11		125	%	30 - 130
			Acenaphthene	2021/06/11		97	%	50 - 130
			Acenaphthylene	2021/06/11		94	%	50 - 130
			Anthracene	2021/06/11		94	%	50 - 130
			Benzo(a)anthracene	2021/06/11		106	%	50 - 130
			Benzo(a)pyrene	2021/06/11		99	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/11		114	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/11		102	%	50 - 130
			Benzo(k)fluoranthene	2021/06/11		107	%	50 - 130
			Biphenyl	2021/06/11		88	%	50 - 130
			Bis(2-chloroethyl)ether	2021/06/11		88	%	50 - 130
			Bis(2-chloroisopropyl)ether	2021/06/11		78	%	50 - 130
			Bis(2-ethylhexyl)phthalate	2021/06/11		111	%	50 - 130
			Chrysene	2021/06/11		110	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/11		102	%	50 - 130
			Diethyl phthalate	2021/06/11		105	%	50 - 130
			Dimethyl phthalate	2021/06/11		103	%	50 - 130
			Fluoranthene	2021/06/11		106	%	50 - 130
			Fluorene	2021/06/11		98	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/11		88	%	50 - 130
			Naphthalene	2021/06/11		99	%	50 - 130
			p-Chloroaniline	2021/06/11		120	%	30 - 130
			Pentachlorophenol	2021/06/11		75	%	50 - 130
			Phenanthrene	2021/06/11		98	%	50 - 130
			Phenol	2021/06/11		41	%	30 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Pyrene	2021/06/11		100	%	50 - 130
			2,3,4,6 + 2,3,4,5-Tetrachlorophenol	2021/06/11		98	%	30 - 130
			Acridine	2021/06/11		94	%	30 - 130
			Benzo(e)pyrene	2021/06/11		117	%	30 - 130
			Perylene	2021/06/11		101	%	30 - 130
7400800	MA	Method Blank	2,4,6-Tribromophenol	2021/06/11		102	%	50 - 130
			2-Fluorobiphenyl	2021/06/11		89	%	50 - 130
			D14-Terphenyl (FS)	2021/06/11		105	%	50 - 130
			D5-Nitrobenzene	2021/06/11		105	%	50 - 130
			1,2,4-Trichlorobenzene	2021/06/11	<0.1		ug/L	
			1-Methylnaphthalene	2021/06/11	<0.2		ug/L	
			2,4,5-Trichlorophenol	2021/06/11	<0.2		ug/L	
			2,4,6-Trichlorophenol	2021/06/11	<0.2		ug/L	
			2,4-Dichlorophenol	2021/06/11	<0.1		ug/L	
			2,4-Dimethylphenol	2021/06/11	<0.5		ug/L	
			2,4-Dinitrophenol	2021/06/11	<2		ug/L	
			2,4-Dinitrotoluene	2021/06/11	<0.3		ug/L	
			2,6-Dinitrotoluene	2021/06/11	<0.3		ug/L	
			2-Chlorophenol	2021/06/11	<0.1		ug/L	
			2-Methylnaphthalene	2021/06/11	<0.2		ug/L	
			3,3'-Dichlorobenzidine	2021/06/11	<0.5		ug/L	
			Acenaphthene	2021/06/11	<0.2		ug/L	
			Acenaphthylene	2021/06/11	<0.2		ug/L	
			Anthracene	2021/06/11	<0.05		ug/L	
			Benzo(a)anthracene	2021/06/11	<0.05		ug/L	
			Benzo(a)pyrene	2021/06/11	<0.01		ug/L	
			Benzo(b/j)fluoranthene	2021/06/11	<0.05		ug/L	
			Benzo(g,h,i)perylene	2021/06/11	<0.05		ug/L	
			Benzo(k)fluoranthene	2021/06/11	<0.05		ug/L	
			Biphenyl	2021/06/11	<0.1		ug/L	
			Bis(2-chloroethyl)ether	2021/06/11	<0.5		ug/L	
			Bis(2-chloroisopropyl)ether	2021/06/11	<0.5		ug/L	
			Bis(2-ethylhexyl)phthalate	2021/06/11	<1		ug/L	
			Chrysene	2021/06/11	<0.05		ug/L	
			Dibenzo(a,h)anthracene	2021/06/11	<0.1		ug/L	
			Diethyl phthalate	2021/06/11	<0.1		ug/L	
			Dimethyl phthalate	2021/06/11	<0.1		ug/L	
			Fluoranthene	2021/06/11	<0.2		ug/L	
			Fluorene	2021/06/11	<0.2		ug/L	
			Indeno(1,2,3-cd)pyrene	2021/06/11	<0.1		ug/L	
			Naphthalene	2021/06/11	<0.2		ug/L	
			p-Chloroaniline	2021/06/11	<1		ug/L	
			Pentachlorophenol	2021/06/11	<0.1		ug/L	
			Phenanthrene	2021/06/11	<0.1		ug/L	
			Phenol	2021/06/11	<0.5		ug/L	
			Pyrene	2021/06/11	<0.05		ug/L	
			2,3,4,6 + 2,3,4,5-Tetrachlorophenol	2021/06/11	<1		ug/L	
			Acridine	2021/06/11	<2		ug/L	
			Benzo(e)pyrene	2021/06/11	<0.05		ug/L	
			Perylene	2021/06/11	<0.05		ug/L	
7400800	MA	RPD	1,2,4-Trichlorobenzene	2021/06/11	NC		%	30
			1-Methylnaphthalene	2021/06/11	NC		%	30
			2,4-Dimethylphenol	2021/06/11	NC		%	30
			2,4-Dinitrophenol	2021/06/11	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2,4-Dinitrotoluene	2021/06/11	NC		%	30
			2,6-Dinitrotoluene	2021/06/11	NC		%	30
			2-Methylnaphthalene	2021/06/11	NC		%	30
			3,3'-Dichlorobenzidine	2021/06/11	NC		%	30
			Acenaphthene	2021/06/11	2.6		%	30
			Acenaphthylene	2021/06/11	NC		%	30
			Anthracene	2021/06/11	1.8		%	30
			Benzo(a)anthracene	2021/06/11	NC		%	30
			Benzo(a)pyrene	2021/06/11	13		%	30
			Benzo(b/j)fluoranthene	2021/06/11	NC		%	30
			Benzo(g,h,i)perylene	2021/06/11	NC (2)		%	30
			Benzo(k)fluoranthene	2021/06/11	NC		%	30
			Biphenyl	2021/06/11	4.0		%	30
			Bis(2-chloroethyl)ether	2021/06/11	NC		%	30
			Bis(2-chloroisopropyl)ether	2021/06/11	NC		%	30
			Bis(2-ethylhexyl)phthalate	2021/06/11	NC		%	30
			Chrysene	2021/06/11	NC		%	30
			Dibenzo(a,h)anthracene	2021/06/11	NC		%	30
			Diethyl phthalate	2021/06/11	NC		%	30
			Dimethyl phthalate	2021/06/11	NC		%	30
			Fluoranthene	2021/06/11	NC		%	30
			Fluorene	2021/06/11	9.4		%	30
			Indeno(1,2,3-cd)pyrene	2021/06/11	NC		%	30
			Naphthalene	2021/06/11	NC		%	30
			p-Chloroaniline	2021/06/11	NC		%	30
			Phenanthrene	2021/06/11	12		%	30
			Phenol	2021/06/11	NC		%	30
			Pyrene	2021/06/11	25		%	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

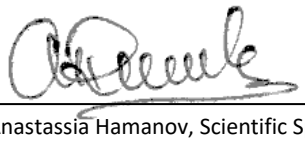
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike exceeds acceptance limits. Probable Matrix interference

(2) Detection Limit was raised due to matrix interferences.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

03-Jun-21 13:30

Antonella Brasil

C1F2589

DSG ENV-1117

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

			Bottle Types																														
			Inorganics						Organics											Hydrocarbons							Volatiles				Other				
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4					
1	MW-9	TS																															
2	MW-10	TS																															
3	MW-11	TS																															
4	MW208	TS																															
5	MW 210	TS																															
6	MW 211	TS																															
7	MW 212	TS																															
8	MW 214	TS																															
9	DUP-5	TS																															
10	DUP-6	TS																															

Comments:

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) DIPIKA SINGH

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

03-Jun-21 13:30
Antonella Brasil
C1F2589
DSG ENV-1117

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:	
Address:	1 Hines Road Suite 200	Address:		Project:	267991.007
	Kanata ON K2K 3C7			Project Name:	
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Site #:	
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Sampled By:	M. Kosiw

Bottle Order #: 796018
COC #: C#796018-01-01
Project Manager: Antonella Brasil

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [ ] Table 1 [x] Res/Park [ ] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [ ] Coarse
- [x] Table 3 [ ] Agri/Other [x] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558. [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ [ ]
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 ICPMS Metals (GW)	O.Reg 153 PHCs, BTEX/F1-F4 (GW)	O.Reg 153 VOCs by HS (GW)	O.Reg 153 PAHs (GW)	pH CaCl2 EXTRACT	Sieve, 75um	ABNs (GW)	Chlorophenols (GW)			# of Bottles	Comments
1		MW-9	June2	AM	GW		X	X	X	X	X	X					5	
2		MW-10						X	X	X			X	X			7	
3		MW-11	June 1					X	X	X			X	X			7	
4		MW 208	June 1/2 2021	AM/PM				X	X	X			X	X			7	
5		MW 210	June2	AM				X	X	X			X	X			7	
6		MW 211	1					X	X	X			X	X			7	
7		MW 212	June 1/2	AM/PM				X	X	X			X	X			7	RECEIVED IN OTTAWA
8		MW-14A	June 1	AM			X										X1	
9		MW 214	June 1					X	X	X							5	ON ICE
10		MW 215	June 1					X	X	X							5	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
M. Kosiw	June 3 2021	10:30 AM		21/06/03	13:30	
				21/06/04	08:48	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	8, 9, 10	Present		
		Intact	X	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

4,3,2 / 3,2,3 / 3,3,2 8,19,9

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	BV Labs Job #:	Bottle Order #: 796018
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:			
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	267991.007		
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:		COC #: C#796018-31-01	Project Manager: Antonella Brasil
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:			
				Sampled By:	M Kosiw		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☒ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? 0

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 ICPMS Metals (~~Soil~~ GW)	O.Reg 153 PHCs, BTEX/F1-F4 (~~Soil~~ GW)	O.Reg 153 VOCs by HS (~~Soil~~ GW)	O.Reg 153 PAHs (~~Soil~~ GW)	pH CaCl2 EXTRACT	Sieve, 75um	ABNs	Chlorophenols	# of Bottles	Comments
1		MW216	June 1	AM	GW			X	X	X					5	
2		Dup-4	June 1				X								1	
3		Dup-5	June 2					X	X	X					5	
4		Dup-6	↓	↓	↓								X	X	2	
5		Trip Blank	June 1/2	—	GW				X						2	
6																
7																
8																
9																See P. 1
10																

RECEIVED IN OTTAWA

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Mike Kosiw	June 3, 2021	10:30 AM	Mahyar Qeun HAMMEET KHAK	2021/06/04	08:48	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS.

White: BV Labs Yellow: Client

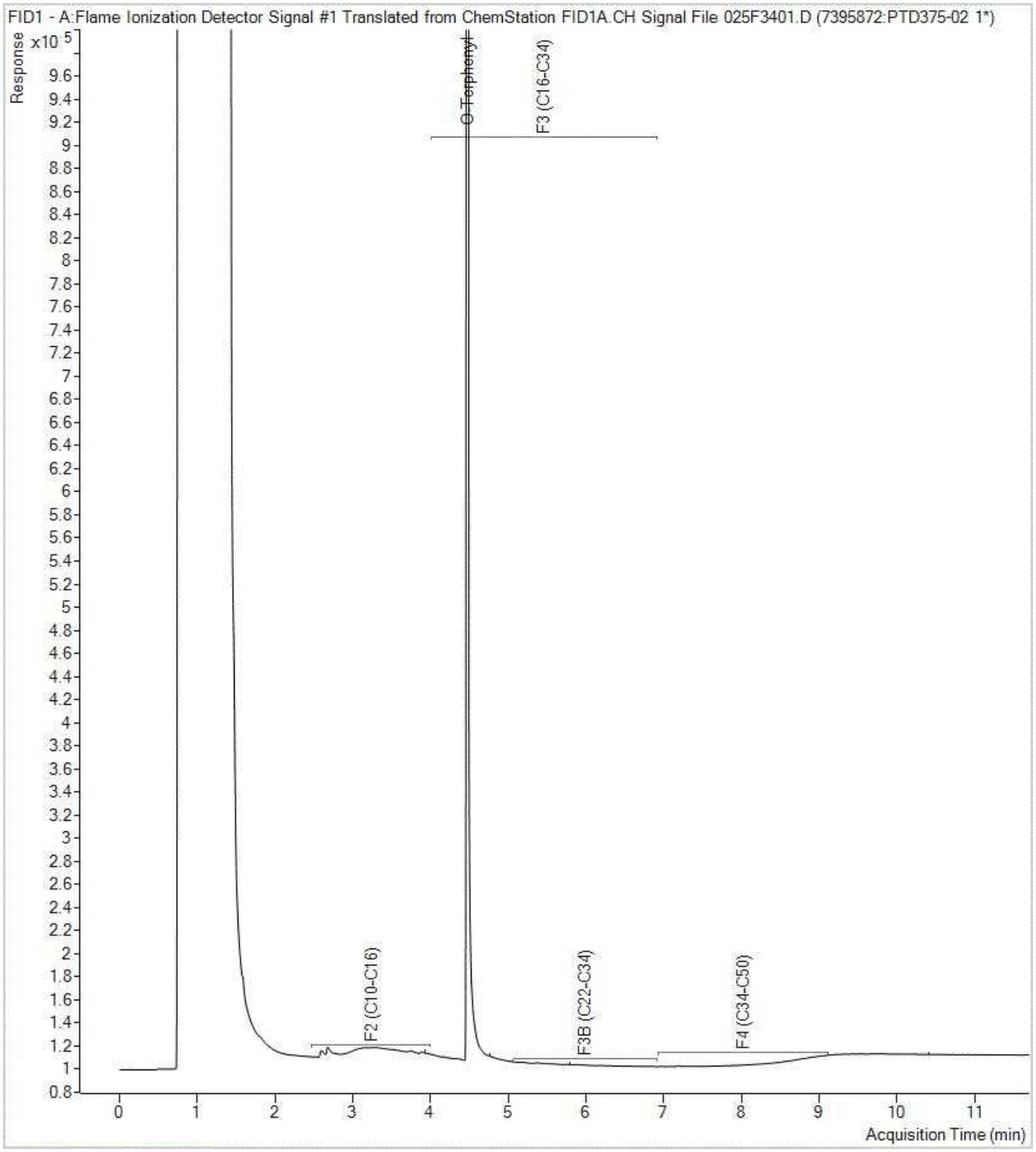
Bureau Veritas Canada (2019) Inc.

4/3/2 / 3, 2/3 / 3/3/3)

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD375

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW-9

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

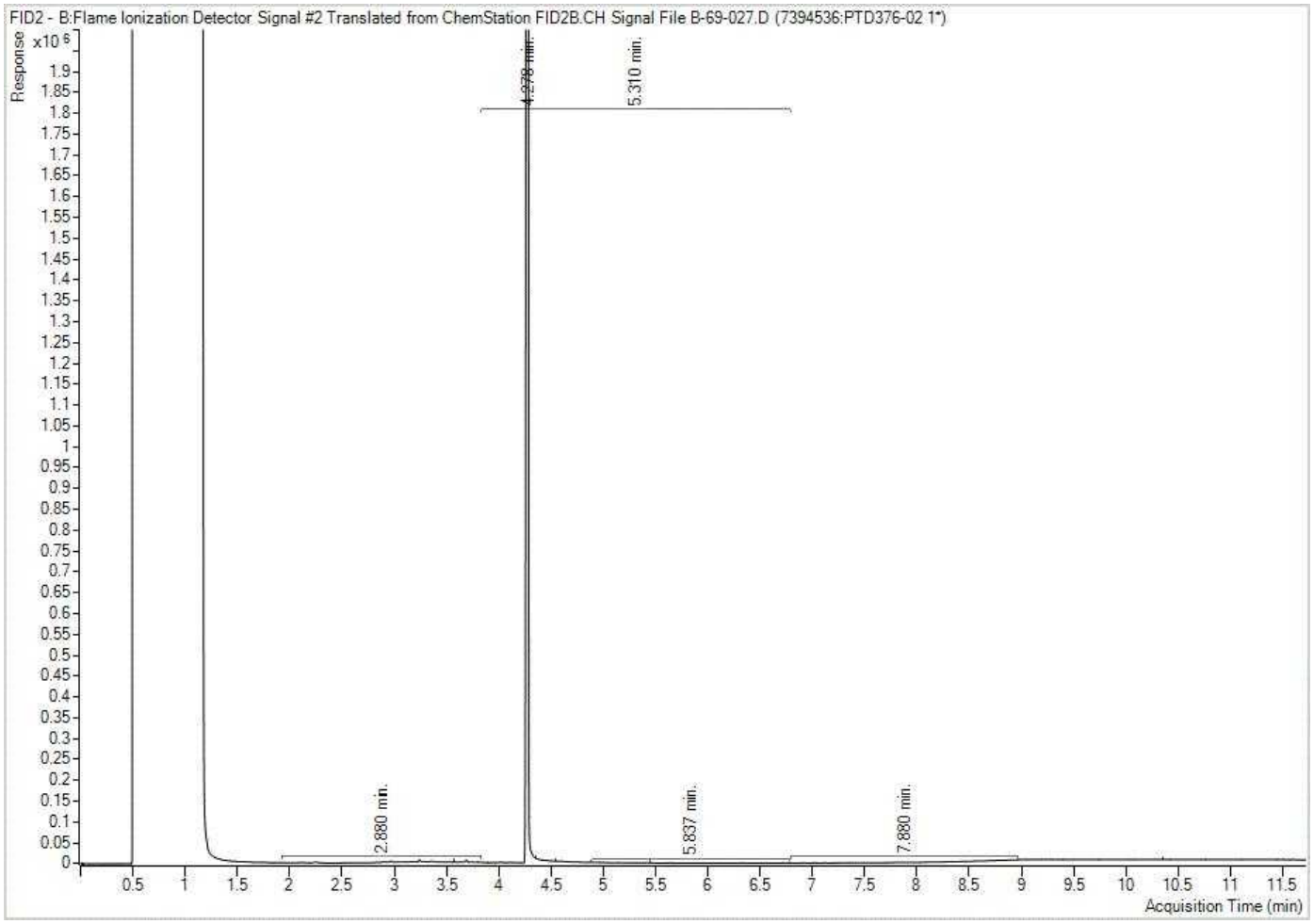


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD376

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW-10

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

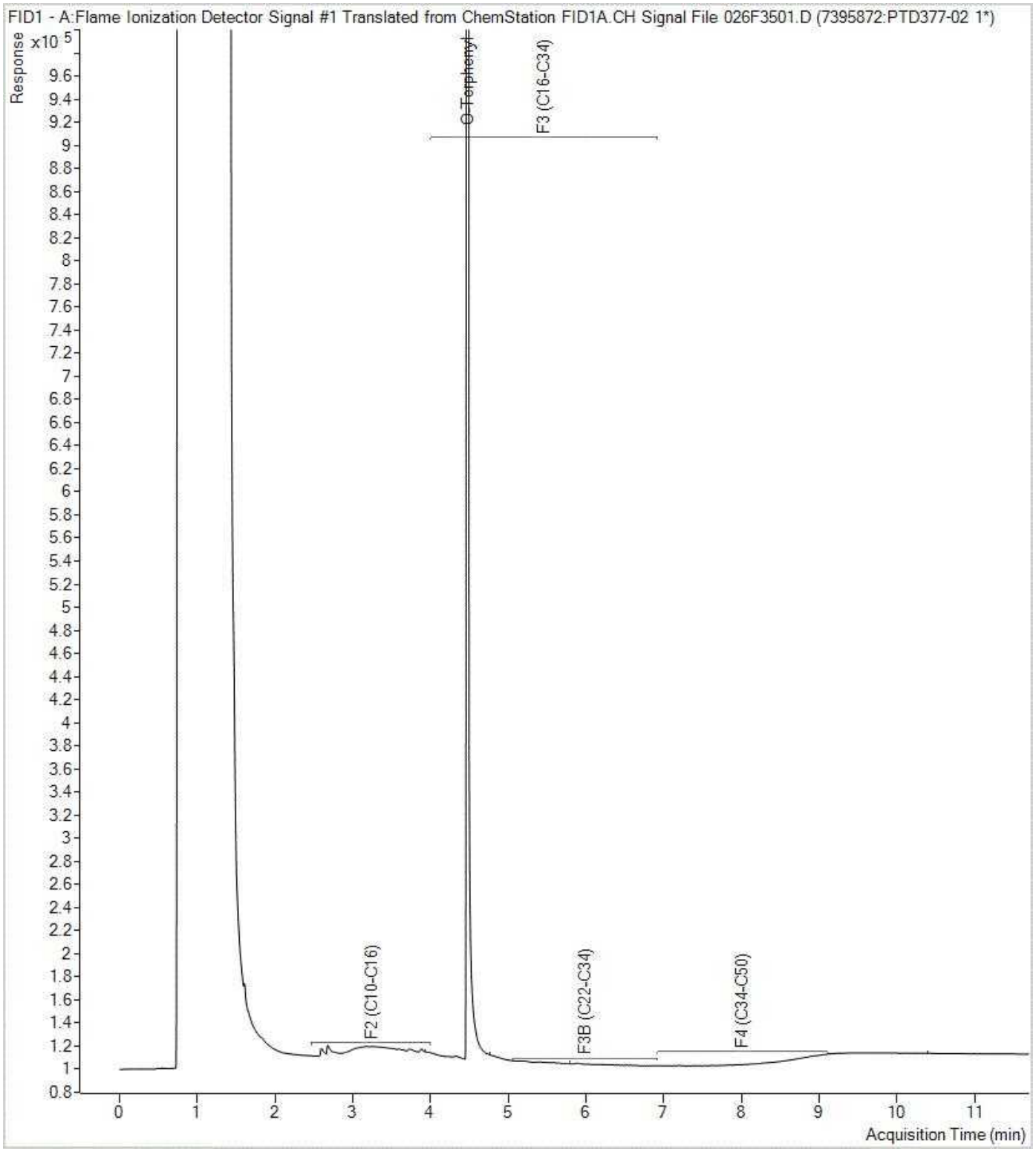


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD377

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW-11

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

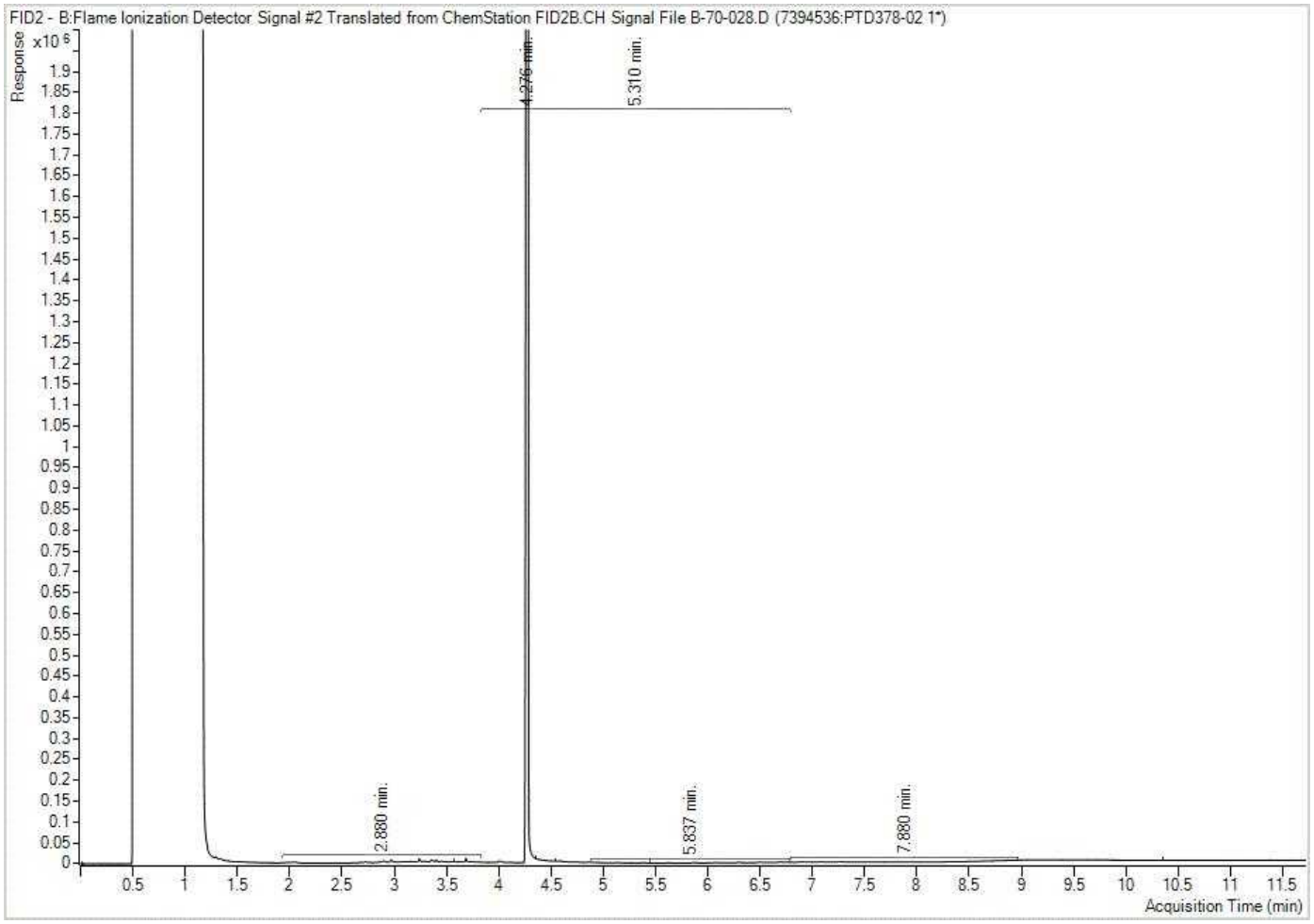


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD378

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW208

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

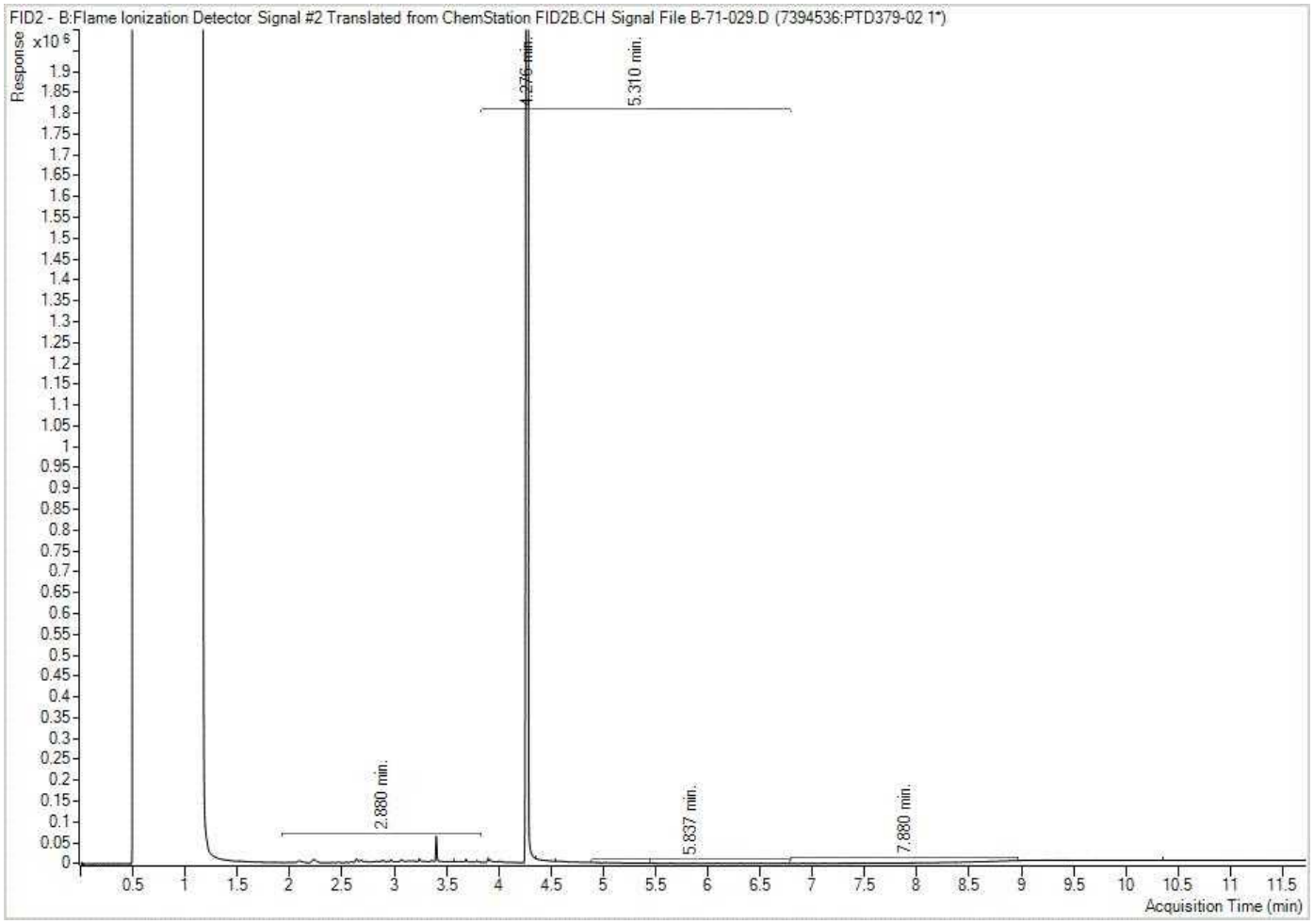


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD379

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW210

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

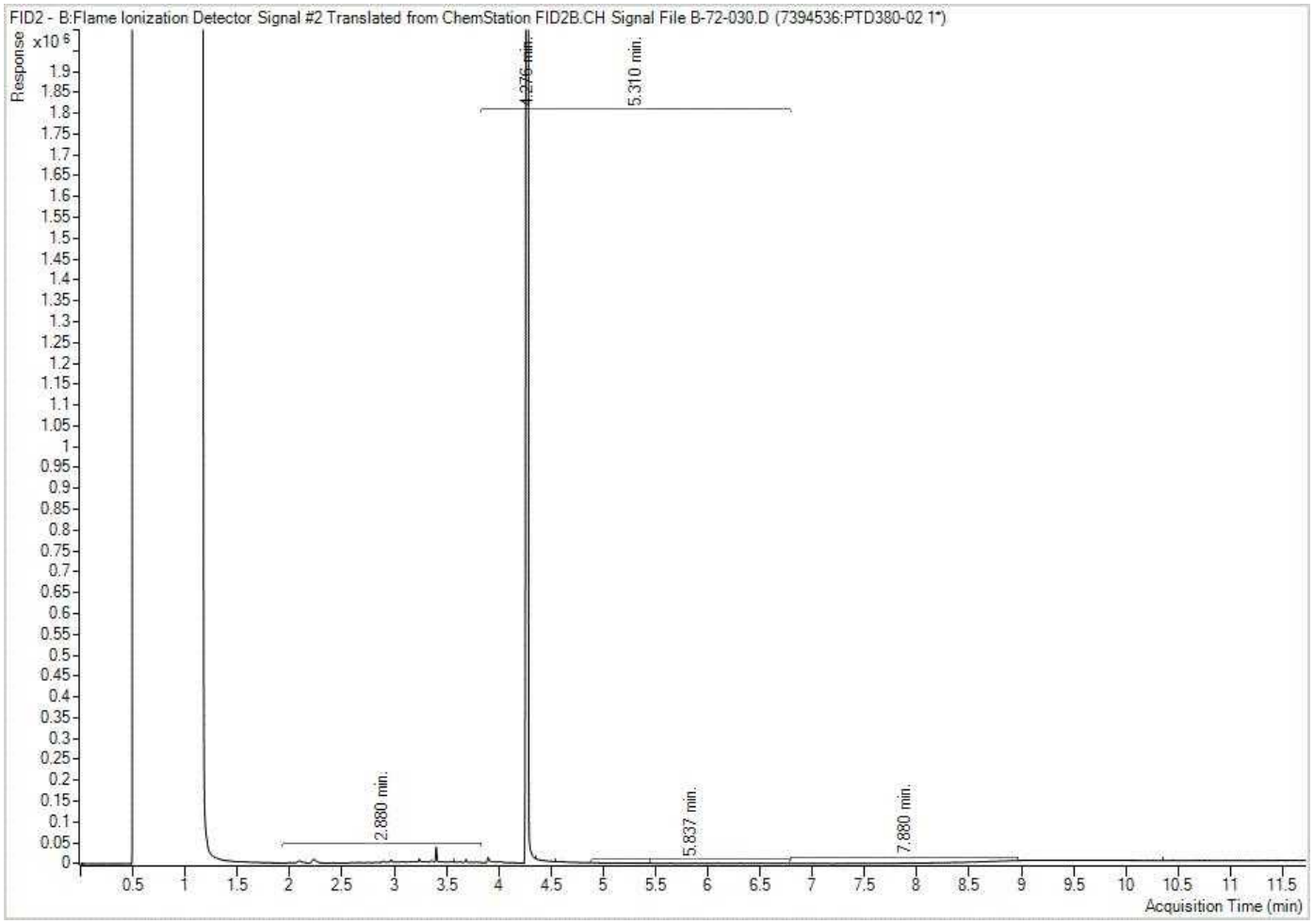


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD380

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW211

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

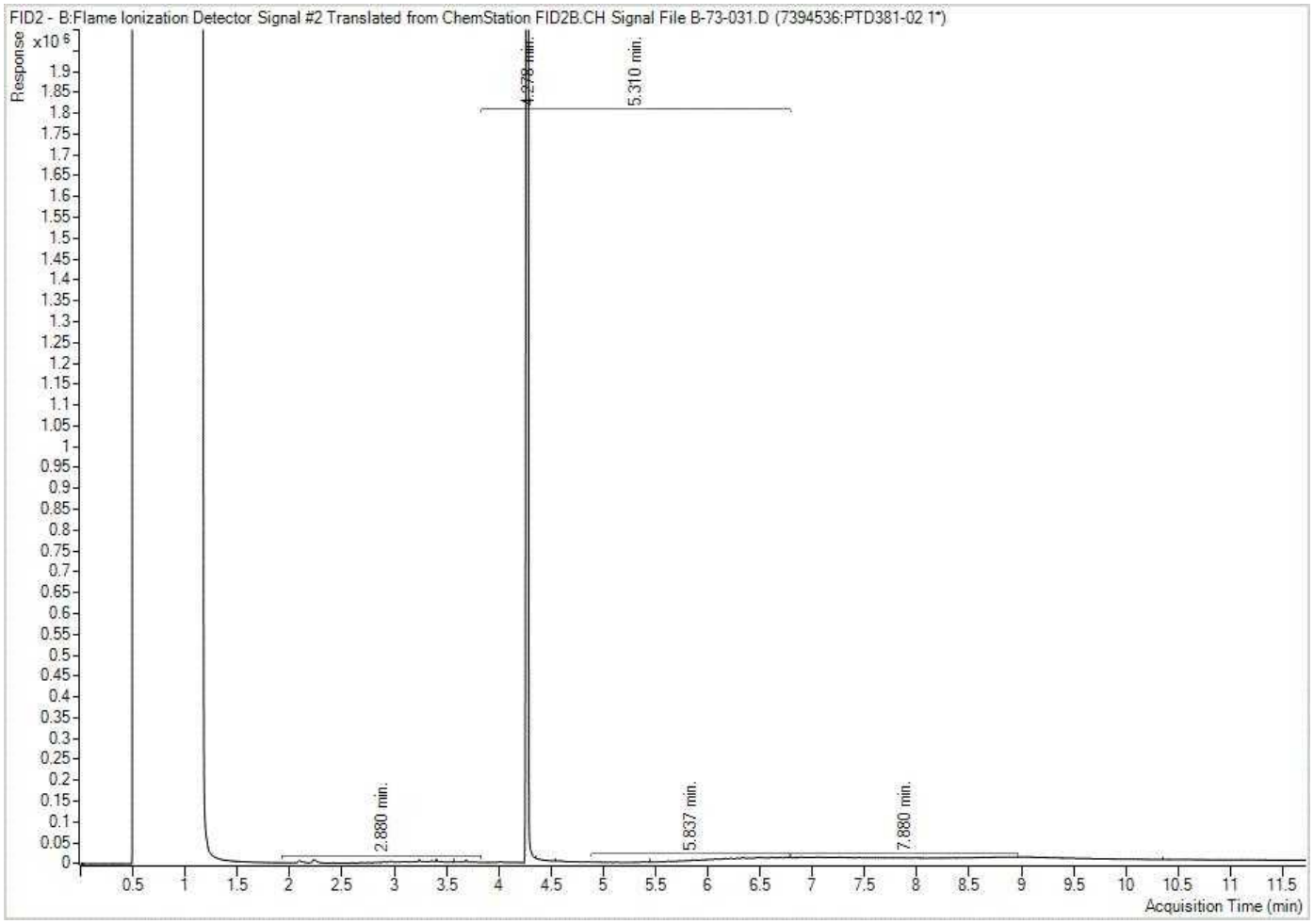


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD381

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW212

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

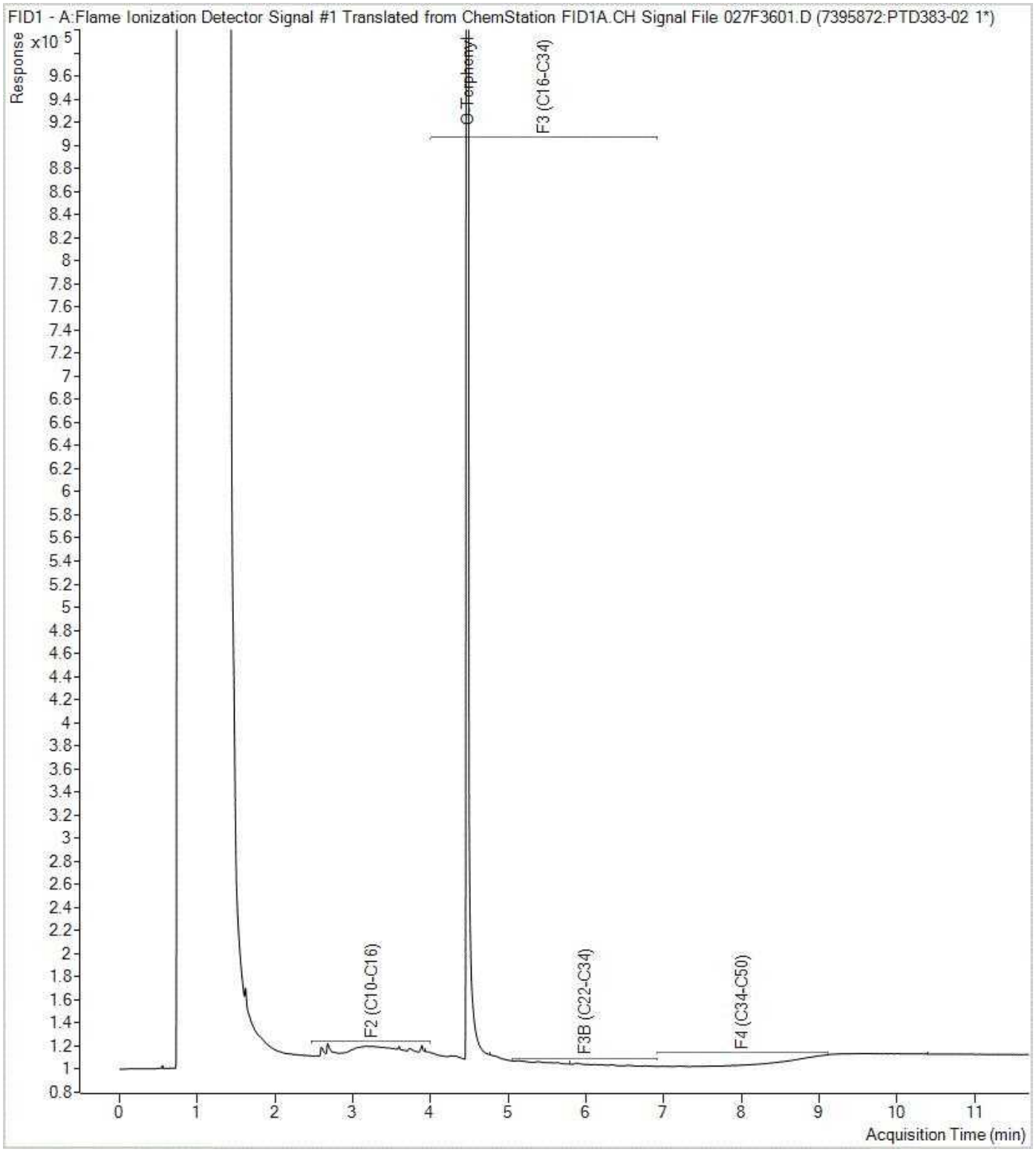


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD383

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW214

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

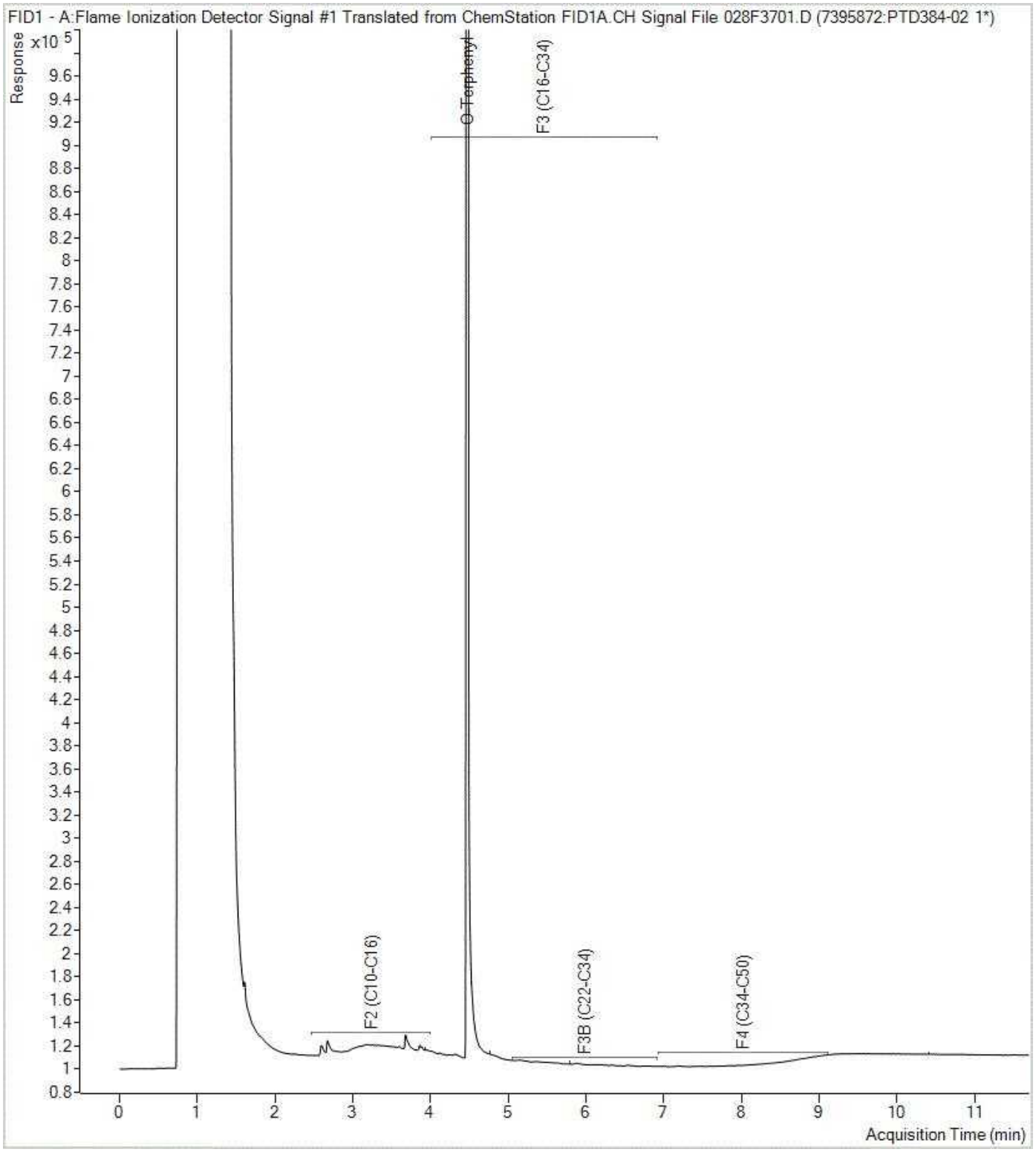


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD384

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW215

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

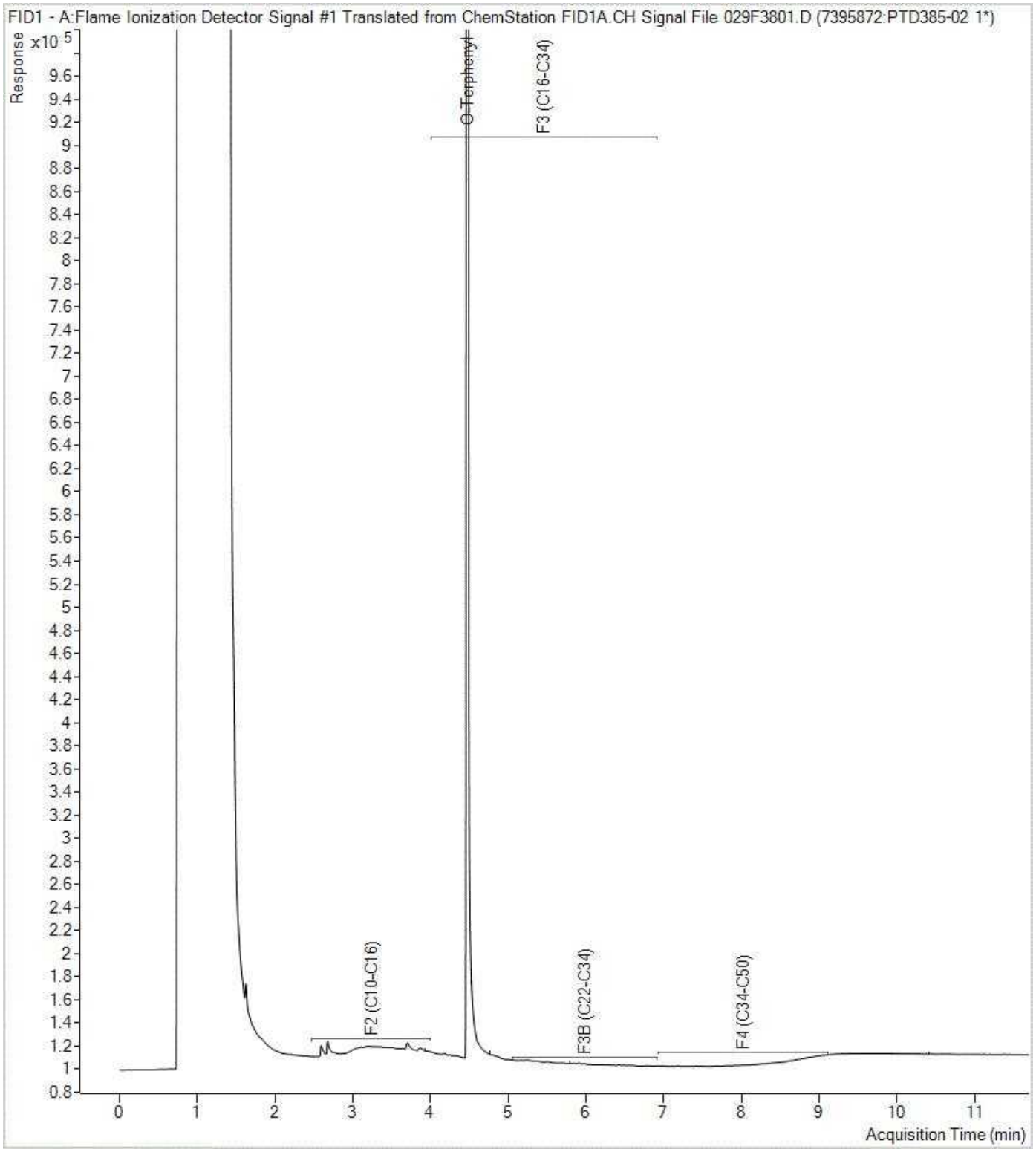


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD385

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW216

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

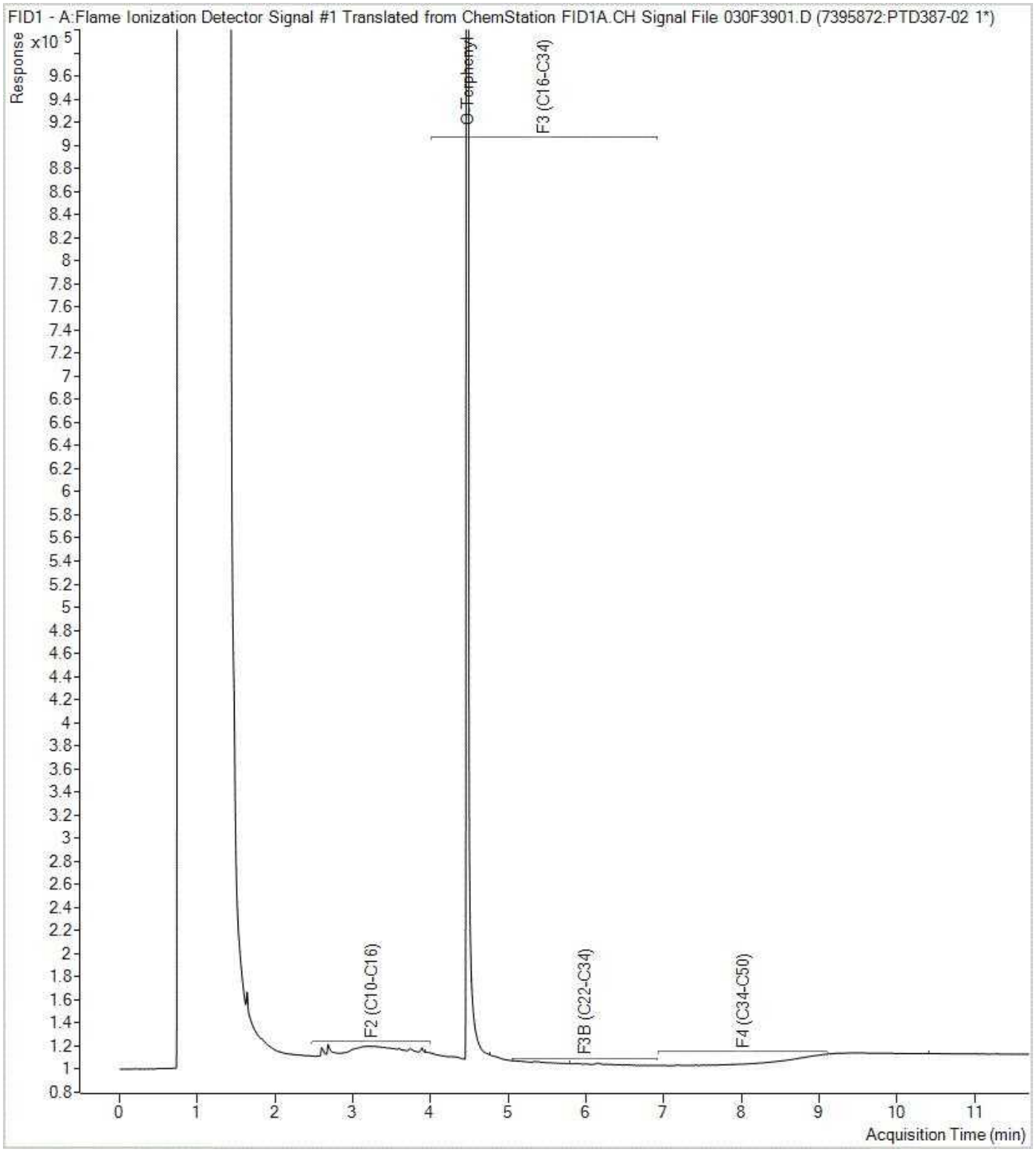


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F2589
Report Date: 2021/06/14
BV Labs Sample: PTD387

Pinchin Ltd
Client Project #: 267991.007
Client ID: DUP-5

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your Project #: 267991.007
Your C.O.C. #: 832329-01-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/17
Report #: R6680798
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1G6172
Received: 2021/06/16, 14:25

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2021/06/17	2021/06/17	CAM SOP-00316	CCME PHC-CWS m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Your Project #: 267991.007
Your C.O.C. #: 832329-01-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/17
Report #: R6680798
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1G6172
Received: 2021/06/16, 14:25

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817
==========
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		PVY807	PVY808	PVY808		
Sampling Date		2021/06/14	2021/06/15	2021/06/15		
COC Number		832329-01-01	832329-01-01	832329-01-01		
	UNITS	MW210 (JUN14)	MW210 (JUN15)	MW210 (JUN15) Lab-Dup	RDL	QC Batch
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	7413666
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	7413666
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	7413666
Reached Baseline at C50	ug/L	Yes	Yes	Yes		7413666
Surrogate Recovery (%)						
o-Terphenyl	%	98	98	98		7413666

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

BV Labs Job #: C1G6172
Report Date: 2021/06/17

Pinchin Ltd
Client Project #: 267991.007
Sampler Initials: MK

TEST SUMMARY

BV Labs ID: PVY807
Sample ID: MW210 (JUN14)
Matrix: Water

Collected: 2021/06/14
Shipped:
Received: 2021/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7413666	2021/06/17	2021/06/17	Jeevaraj Jeevaratrnam

BV Labs ID: PVY808
Sample ID: MW210 (JUN15)
Matrix: Water

Collected: 2021/06/15
Shipped:
Received: 2021/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7413666	2021/06/17	2021/06/17	Jeevaraj Jeevaratrnam

BV Labs ID: PVY808 Dup
Sample ID: MW210 (JUN15)
Matrix: Water

Collected: 2021/06/15
Shipped:
Received: 2021/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7413666	2021/06/17	2021/06/17	Jeevaraj Jeevaratrnam

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.0°C

Cooler custody seal was present and intact .

Results relate only to the items tested.

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

BV Labs Job #: C1G6172
Report Date: 2021/06/17

Pinchin Ltd
Client Project #: 267991.007
Sampler Initials: MK

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7413666	JJE	Matrix Spike [PVY807-01]	o-Terphenyl	2021/06/17		98	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/17		104	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/17		104	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/17		108	%	60 - 130
7413666	JJE	Spiked Blank	o-Terphenyl	2021/06/17		99	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/17		102	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/17		103	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/17		106	%	60 - 130
7413666	JJE	Method Blank	o-Terphenyl	2021/06/17		97	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/17	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/06/17	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/06/17	<200		ug/L	
7413666	JJE	RPD [PVY808-01]	F2 (C10-C16 Hydrocarbons)	2021/06/17	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/06/17	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/06/17	NC		%	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

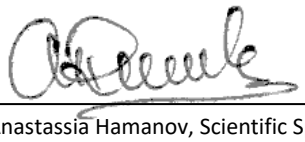
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel (905) 817-5700 Toll-free 800-563-6266 Fax (905) 817-5777 www.bvlabs.com

16-Jun-21 14:25
Antonella Brasil
C1G6172

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	Bottle Order #: 832329
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:		
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	267991.007	
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:		COC #: C#832329-01-01
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:		Project Manager: Antonella Brasil
				Sampled By:	M. Kosiw	

J_L ENV-960

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☒ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☒ Table 3 ☐ Agri/Other ☒ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	O.Reg 153 Metals & Inorganics Pkg (Soil)	O.Reg 153 VOCs by HS & F1-F4 (Soil)	O.Reg 153 PCBs (Soil)	O.Reg 153 PAHs (Soil)	O.Reg 153 Comm Pkg (Soil)	Acid Extractables by GC/MS	O.Reg 153 OC Pesticides (Soil)	F2-F4 (PHC)			# of Bottles	Comments
1		MW210	June14	PM	GW								X			2	
2		MW210	June15	↓	↓								X			2	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

RECEIVED IN OTTAWA

ON Ice

Turnaround Time (TAT) Required
Please provide advance notice for rush projects

Regular (Standard) TAT: ☐
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: RUSH 1-Day Time Required: ☒
Rush Confirmation Number: ___ *(call lab for #)*

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Mike Kosiw	June 16 2021	11:30AM		2021/06/16	14:25	
				2021/06/17	08:30	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 9.8 | 10
Custody Seal Present: Yes ☒ Intact: No

5/3/3

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

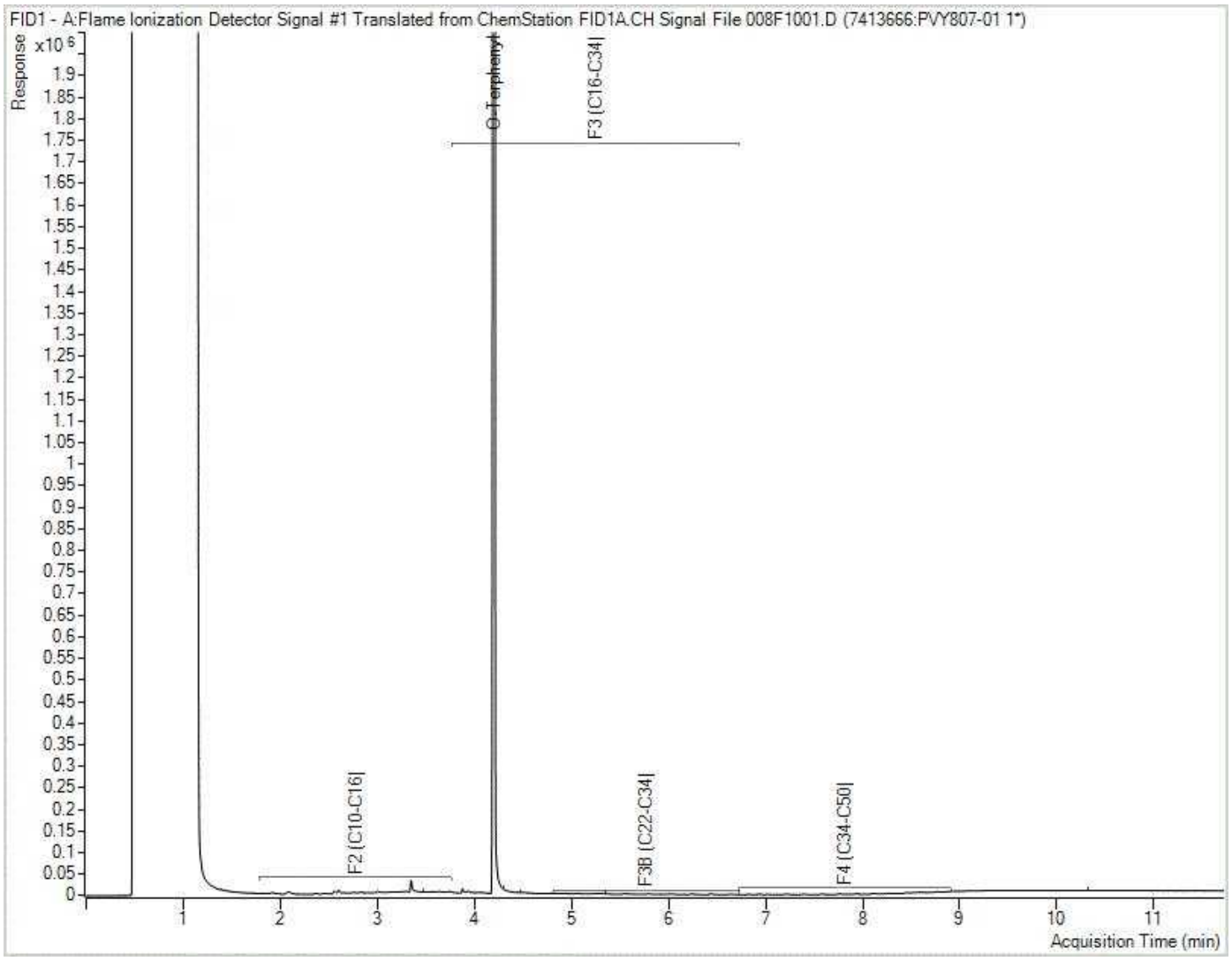
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1G6172
Report Date: 2021/06/17
BV Labs Sample: PVY807

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW210 (JUN14)

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

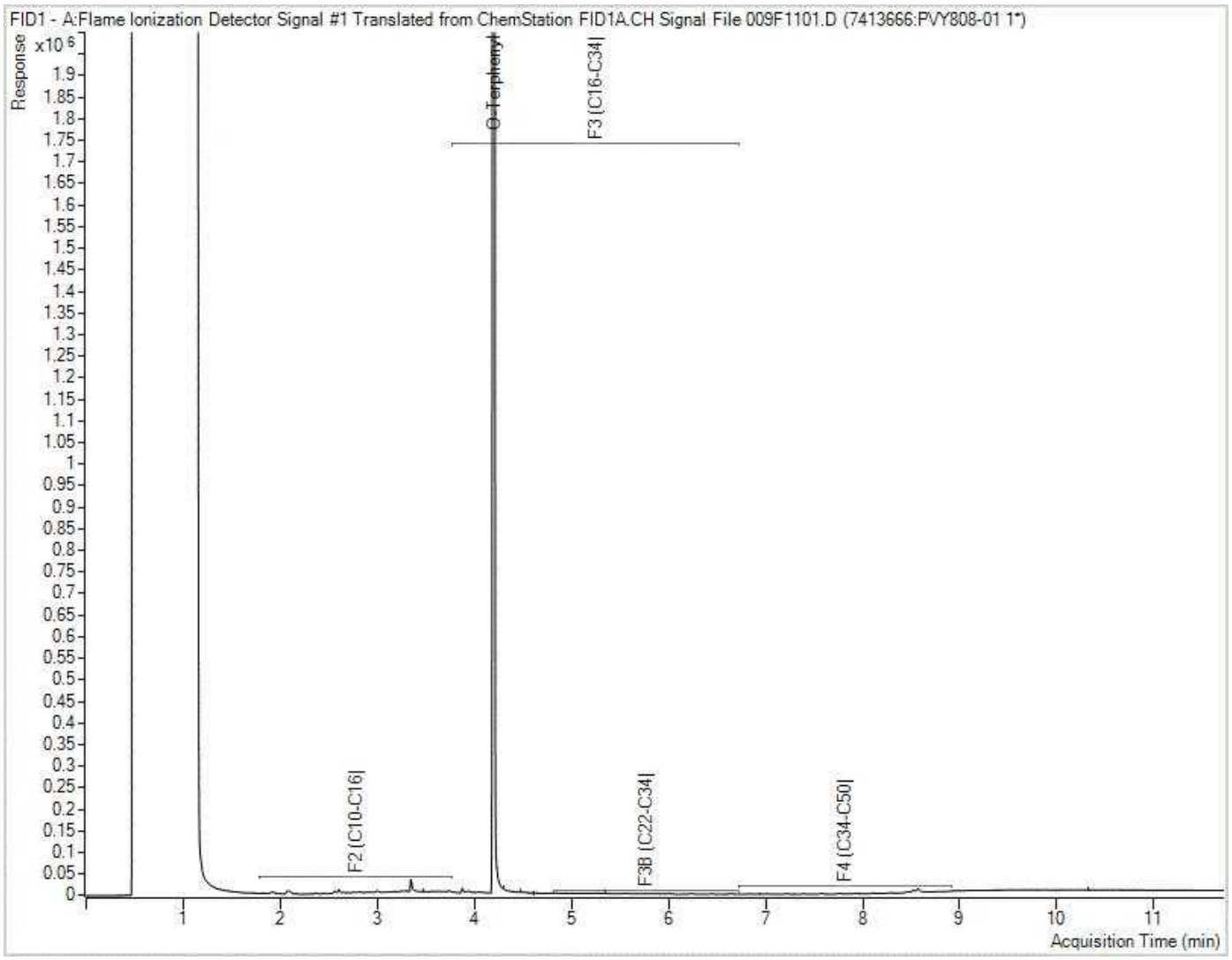


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G6172
Report Date: 2021/06/17
BV Labs Sample: PVY808

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW210 (JUN15)

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

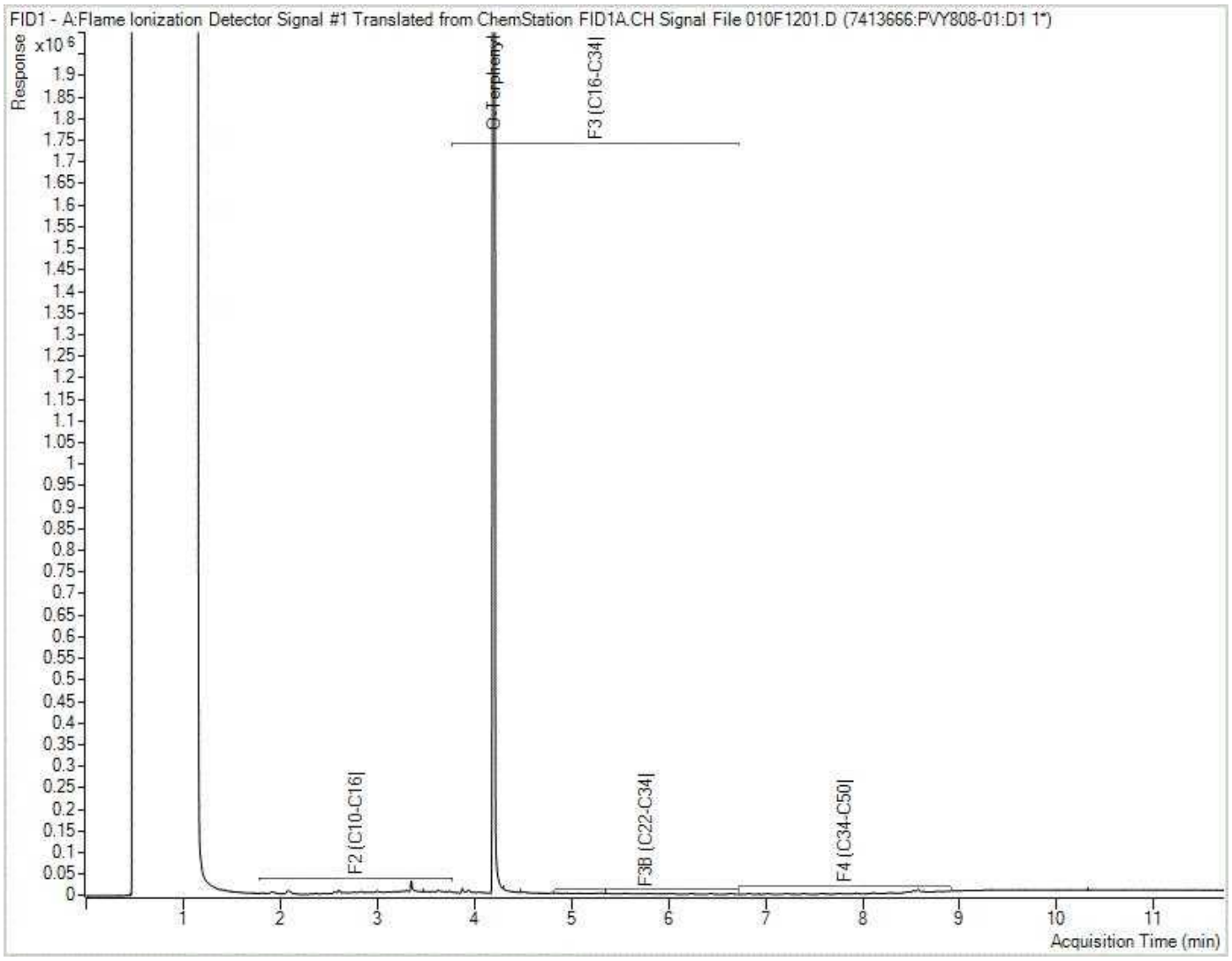


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G6172
Report Date: 2021/06/17
BV Labs Sample: PVY808 Lab-Dup

Pinchin Ltd
Client Project #: 267991.007
Client ID: MW210 (JUN15)

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

APPENDIX E

Remediation

1.0 INTRODUCTION

This appendix provides a summary of the remedial actions undertaken to reduce the concentrations of contaminants on, in or under the property located at 25 Pickering Place and 1330 Avenue K in Ottawa, Ontario (hereafter referred to as the Site or Phase Two Property). The following sections describe the remedial actions, the presence/absence of free-flowing product, the results of confirmation sampling and analysis, the results of quality assurance/quality control (QA/QC) samples and conclusions. The objective of the remedial actions was to remediate soil identified during the Phase Two Environmental Site Assessment (Phase Two ESA) with contaminant concentrations exceeding the applicable Ministry of Environment, Conservation and Parks (MECP) *Table 3 Site Condition Standards*.

2.0 REMEDIAL ACTIONS

2.1 Soil Excavation and Soil Treatment Activities

Soil remediation activities at the Phase Two Property consisted of the following:

- Excavation of soil impacted with petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) from APEC-1, APEC-2 and/or APEC-11.

These soil remediation activities are described in the following subsections.

2.1.1 Soil Excavation

The Phase Two ESA identified soil with EC/SAR values and concentrations of various PHCs, VOCs, metals and PAHs exceeding the applicable *Table 3 Standards*. The metal- and PAH-impacted soil appeared to be related to fill material associated with the former parking lot areas on-Site (APEC-11), and the PHC- and VOC-impacted soil appeared to be related to the former chemical blending building and associated floor drain and pits (APEC-1 and APEC-2).

Given that the impacted soil was shallow and the identified contaminants not generally amenable to soil treatment, the impacted soil was remediated between May 31, 2024 and February 27, 2025 through excavation by Tomlinson Group for disposal at an MECP-approved receiving facility (i.e., Waste Connections of Canada Ottawa Landfill in Ottawa, Ontario). Following removal of the impacted soil, confirmation soil sampling was completed at the limits of the excavation. Details of the confirmation soil sampling program, including the soil sample analytical results, are described below in Section 4.2.

The lateral extent of the excavation completed to remove the impacted soil is illustrated on Figure 1F in this appendix.

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2.2 Quantity of Soil Treated or Removed From Phase Two Property

A total of 19,371 tonnes of impacted soil were excavated and removed from the Phase Two Property between May 31, 2024 and February 27, 2025. No soil was treated as part of the remedial activities completed at the Phase Two Property.

2.3 Groundwater Removal and Groundwater Treatment Activities

The treatment of groundwater was not required as part of the remedial activities completed at the Phase Two Property. However, approximately 1,789,200 litres of groundwater was dewatered from the remedial excavations to provide safe working conditions between October 2024 and February 2025.

2.5 Sediment Removal and Sediment Treatment

The removal or treatment of sediment was not required as part of the remedial activities completed at the Phase Two Property.

2.6 Quantity of Sediment Treated or Removed From Phase Two Property

No sediment was removed or treated as part of the remedial activities completed at the Phase Two Property.

2.7 Permits

The following permits were obtained in order to complete the remedial work at the Phase Two Property:

- Sanitary Sewer Agreement (Construction Dewatering) (Number W19-04-24PIHOP) permitting the discharge of water to sanitary sewer manhole MHSA61815.

2.8 Creation/Introduction of Contaminants/Substances to the Subsurface of the Phase Two Property

The remediation activities completed at the Phase Two Property did not involve the creation or introduction of contaminants or substances to the subsurface.

2.9 Establishment of Baseline and Background Conditions

The remediation activities completed at the Phase Two Property did not involve the creation or introduction of contaminants or substances to the subsurface. As such, the establishment of baseline and background conditions was not required.

2.10 Monitoring of Contaminants Created or Introduced to the Subsurface of the Phase Two Property During Remediation

The remediation activities completed at the Phase Two Property did not involve the creation or introduction of contaminants to the subsurface. As such, groundwater monitoring was not required during the remediation activities.

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3.0 FREE-FLOWING PRODUCT

No free-flowing product was observed during remedial activities at the Phase Two Property.

4.0 CONFIRMATION SAMPLING AND ANALYSIS

4.1 Confirmation Sampling Activities

The following confirmation sampling activities were conducted during and after remediation that demonstrate that the Phase Two Property meets the *Table 3 Standards*:

- Confirmation soil sampling after the excavation of soil impacted with PHCs, VOCs, PAHs and metals.

The following sections provide a detailed description of these confirmation sampling activities.

4.2 Confirmation Sampling Locations

As per Ontario Regulation 153/04 (as amended) (O. Reg. 153/04), soil samples were collected from the remedial excavations for field screening at a minimum frequency of one sample per every 5 square metres (m^2) from the excavation sidewalls and one sample per every 10 m^2 from the excavation floors. Field screening procedures were consistent with those described in Section 5.0 of this report. Based on vapour concentrations as well as visual and/or olfactory considerations, the following samples were submitted for laboratory analysis:

- A total of four “worst case” soil samples from Excavation 1 (EX1) in APEC-11 (i.e., two sidewall samples and two floor samples) to address PAH exceedances at borehole BH203;
- A total of four “worst case” soil samples from Excavation 2 (EX2) in APEC-11 (i.e., two sidewall samples and two floor samples) to address PAH and metal exceedances at borehole BH202;
- A total of four “worst case” soil samples from Excavation 3 (EX3) in APEC-11 (i.e., two sidewall samples and two floor samples) to address PAH exceedances at borehole BH201;
- A total of four “worst case” soil samples from Excavation 4 (EX4) in APEC-11 (i.e., two sidewall samples and two floor samples) to address PAH exceedances at borehole BH205;
- A total of four “worst case” soil samples from Excavation 5 (EX5) in APEC-11 (i.e., two sidewall samples and two floor samples) to address PAH exceedances at borehole MW214; and

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- A total of 186 “worst case” soil samples from Excavation 6 (EX6) in APEC-1 and APEC-2 (i.e., 97 sidewall samples, 50 floor samples and 39 field duplicate samples) to address PHC and VOC exceedances at boreholes BH209 and MW210, as well as to address metal, PAH and PHC exceedances at borehole BH206 and metal impacts at borehole BH207.

Based on these findings, the remediation of the impacted soil was considered complete. The locations and depths of the soil samples collected for field screening and/or submitted for laboratory analysis from the remedial excavations are shown on Figure 4F in this appendix. Table 1F in this appendix provides a summary of the confirmation soil sample analytical data and the sample depths of the soil samples submitted for analysis.

4.3 Remedial Excavations

The following table summarizes the dimensions, depth, number of soil samples collected for field screening, number of samples submitted to the laboratory for analysis and the parameters analyzed for each remedial excavation.

Excavation	Lateral Dimensions (metres)	Excavation Depth (mbgs)	Field Screening Samples	Laboratory Analysis Samples	Laboratory Analysis
EX-1 (APEC-11)	2 x 5	0.7	6	4	PAHs
EX-2 (APEC-11)	2 x 4	1.0	6	4	Metals, PAHs
EX-3 (APEC-11)	3 x 3	0.7	6	4	PAHs
EX-4 (APEC-11)	3 x 3	1.0	6	4	PAHs
EX-5 (APEC-11)	3 x 5	1.0	6	4	PAHs
EX-6 (APEC-1, APEC-2, APEC-11)	65 x 108	1.8 to 2.7			PHCs, PAHs, VOCs and/or Metals

The excavation locations and dimensions are shown on Figure 1F in this appendix. Figure 5F in this appendix provides a cross-section showing the vertical dimensions of the remedial excavations. The cross-section lines are shown on Figure 1F.

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4.4 Groundwater Removal or Treatment

Groundwater removal or treatment was not required as part of the remedial activities completed at the Phase Two Property.

4.5 Sediment Removal or Treatment

Sediment removal or treatment was not required as part of the remedial activities completed at the Phase Two Property.

4.6 Post-Remediation Groundwater Monitoring

Groundwater removal or treatment was not completed as part of the remedial activities and, as such, post-remediation groundwater monitoring was not required.

4.7 Data Summary Tables and Figures

4.7.1 Summary Tables

The analytical results of all confirmation soil samples that were submitted for laboratory analysis during the remedial activities completed at the Phase Two Property are summarized in this appendix. The analytical data are compared in the tables to the applicable *Table 3 Standards.*

4.7.2 Summary Figures

Plan view and cross-section figures showing the concentrations of contaminants in soil at the Phase Two Property following remediation are provided in this appendix.

4.8 Waste Disposal Documentation

Waste manifests and bills of lading for all soil removed from the Phase Two Property during remediation activities for off-Site disposal are attached to this appendix.

5.0 QUALITY ASSURANCE AND QUALITY CONTROL RESULTS

QA/QC samples collected and submitted for analysis by Pinchin during the remedial activities consisted of the following:

- 39 field duplicate soil samples collected during confirmation sampling following impacted soil excavation.

In addition to the above, laboratory quality control activities and sample checks employed by AGAT included:

- Method blanks - where a clean sample is processed simultaneously with and under the same conditions (i.e., using the same reagents and solvents) as the samples being

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analyzed. These are used to confirm whether the instrument, reagents and solvents used are contaminant free.

- Laboratory duplicates - where two samples obtained from the sample container are analyzed. These are used to evaluate laboratory precision.
- Surrogate spike samples - where a known mass of compound not found in nature (e.g., deuterated compounds such as toluene-d8) but that has similar characteristics to the analyzed compounds is added to a sample at a known concentration. These are used to assess the recovery efficiency.
- Matrix spike samples - where a known mass of target analyte is added to a matrix sample with known concentrations. These are used to evaluate the influence of the matrix on a method's recovery efficiency.
- Use of standard or certified reference materials - a reference material where the content or concentration has been established to a very high level of certainty (usually by a national regulatory agency). These are used to assess accuracy.

The results of the QA/QC samples are discussed in the following sections.

5.1 Soil Duplicate Results

During confirmation soil sampling of the remedial excavation, a separate soil duplicate sample pairs were submitted for laboratory analysis. The field duplicate samples were collected by splitting the samples into two equal portions, with one portion collected as the regular sample and the other portion collected as the field duplicate sample.

The quality of the analytical results was evaluated by calculating relative percent differences (RPDs) for the parameters analyzed for the original and field duplicate samples. The RPD for each parameter was calculated using the following equation:

$$RPD = \frac{(\text{Original Concentration} - \text{Duplicate Concentration}) \times 100}{(\text{Original Concentration} + \text{Duplicate Concentration})/2}$$

An RPD was not calculated unless the parameter concentration in both the original and duplicate sample had detectable concentrations above the corresponding practical quantitation limit for the parameter, which is equal to five times the lowest laboratory reportable detection limit (RDL).

The calculated RPDs for the original and field duplicate soil samples have been compared to performance standards provided in the MECP document entitled *"Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act"* dated March 9, 2004 and revised on July 1, 2011 (*Analytical Protocol).* Pinchin notes that although these performance

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standards only strictly apply to laboratory duplicate samples, they have been considered suitable for comparison to the field duplicate soil sample results as well.

Each of the calculated RPDs met the corresponding performance standards.

Based on Pinchin's review of the calculated RPD values for the submitted soil sample duplicate pairings, the level of observed variance in the reported analytical results is considered acceptable for the purpose of meeting the data quality objectives of the Phase Two ESA.

5.1.3 Deviations from Analytical Protocol

There were no deviations from the holding times, preservation methods, storage requirements and container types specified in the *Analytical Protocol* during the completion of the remedial activities.

5.1.5 Laboratory Comments Regarding Sample Analysis

AGAT routinely conducts internal QA/QC analyses in order to satisfy regulatory QA/QC requirements. The results of the AGAT QA/QC analyses for the submitted soil samples are summarized in the laboratory Certificates of Analyses attached to this appendix. Also included in this appendix are all correspondences between the laboratory and staff at Pinchin.

No comments were noted by AGAT on the laboratory Certificates of Analysis for the submitted soil samples.

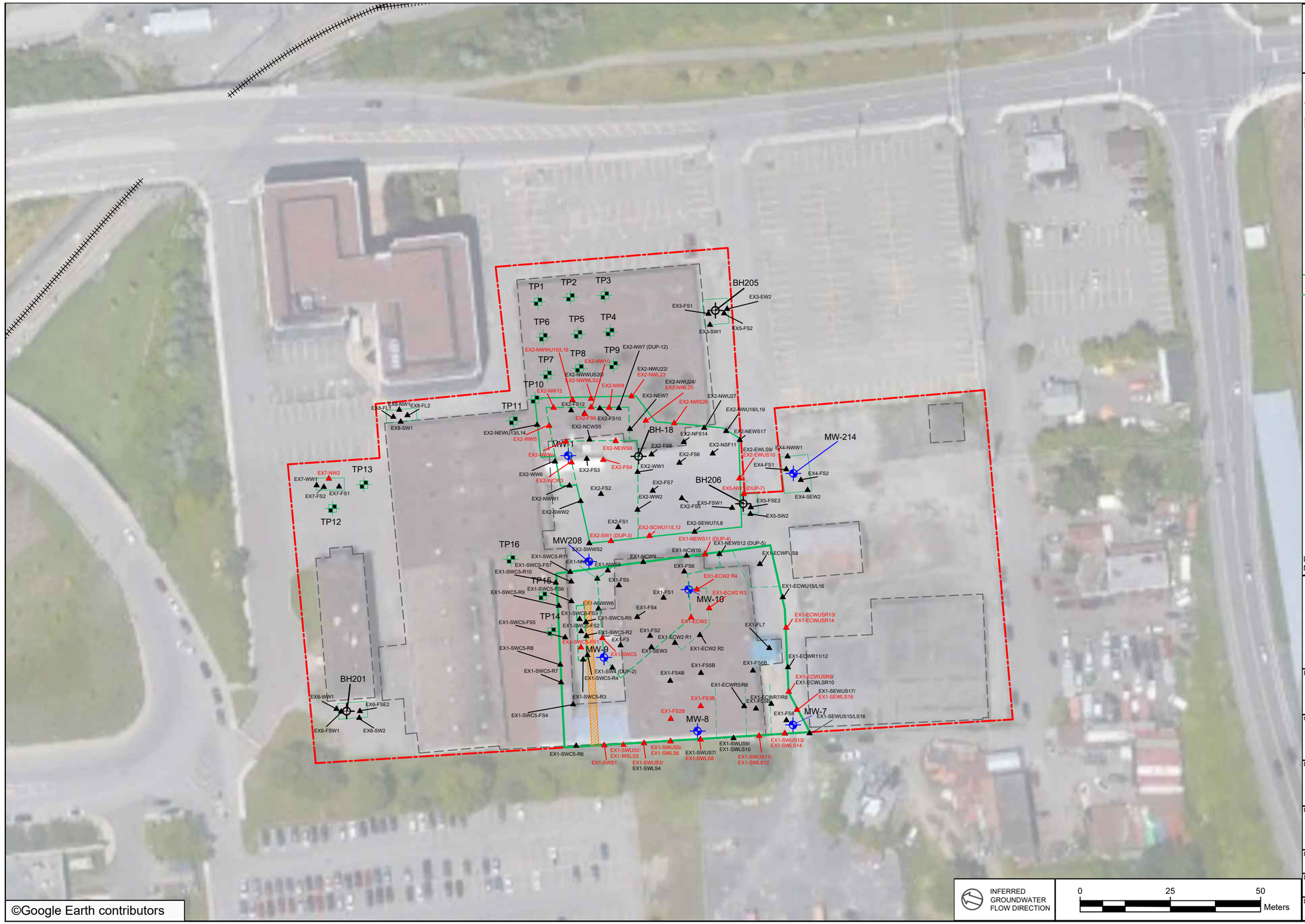
5.1.6 QA/QC Sample Summary

The overall evaluation of the QA/QC sample results indicates no issues with respect to field collection methods and laboratory performance, and no apparent bias due to ambient conditions at the Phase Two Property and during transportation of the sample containers/samples to and from the analytical laboratory.

6.0 CONCLUSIONS

The results of confirmation sampling completed following the remedial actions undertaken at the Phase Two Property were successful in reducing the concentrations of contaminants in soil to levels below the *Table 3 Standards*. As such, it no further work remedial work is required to meet the requirements of O. Reg. 153/04.

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INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDING
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION EXCEEDS *TABLE 3 RPI STANDARDS*
- TEST PIT LOCATION
- FINAL LIMIT OF EXCAVATION
- INTERIM LIMIT OF EXCAVATION
- APPROXIMATE LOCATION OF CONCRETE-ENCASED INFRASTRUCTURE

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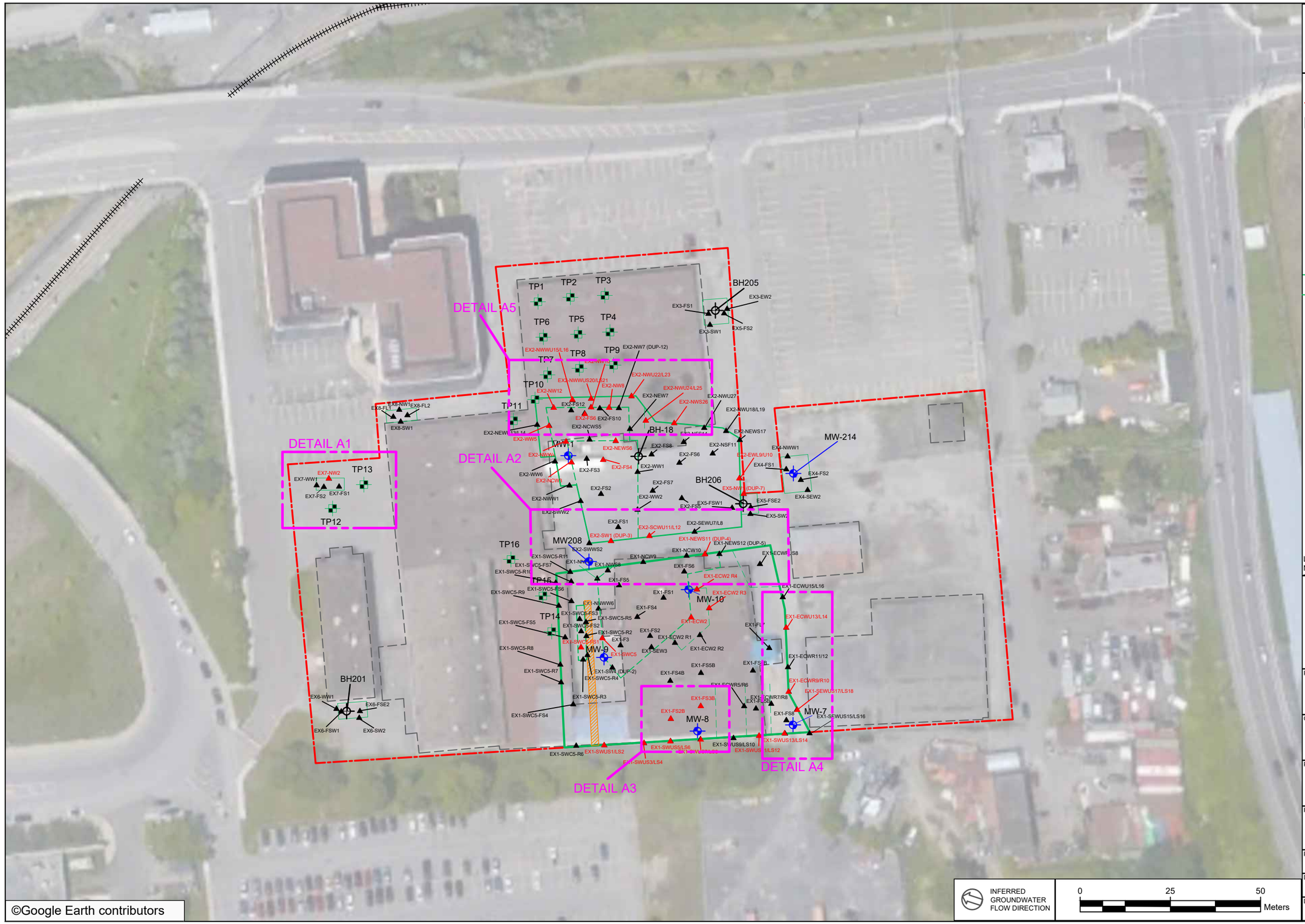
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
REMEDIAL EXCAVATION SAMPLE LOCATION PLAN (NOV. 2024)

PROJECT NUMBER:	SCALE:
267991.012	1:1000
DRAWN BY:	REVIEWED BY:
DM	AM
DATE:	FIGURE NUMBER:
MAY 2025	1



PINCHIN

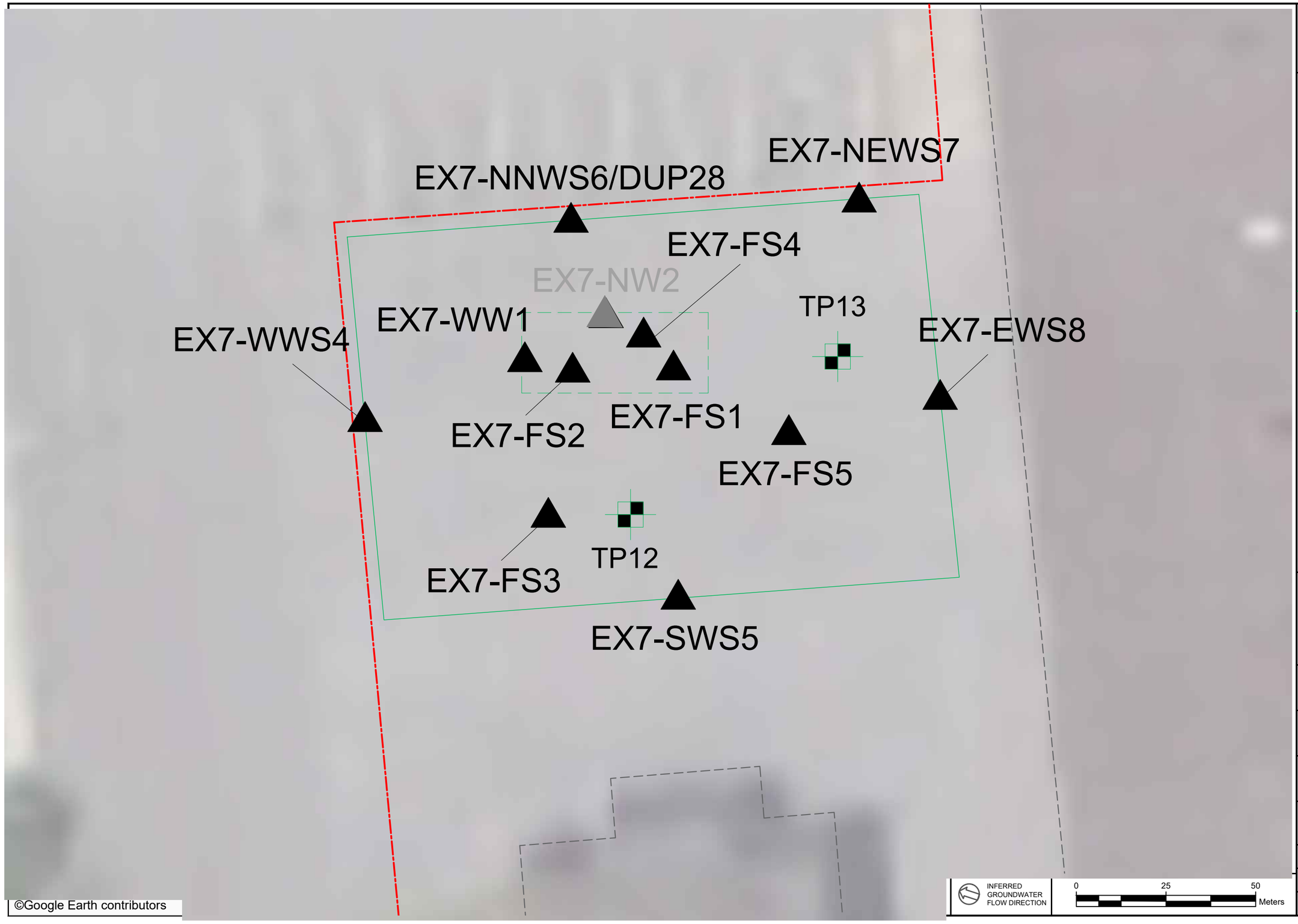
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
REMEDIAL EXCAVATION DETAIL KEY (NOV. 2024)

PROJECT NUMBER:	SCALE:
267991.012	1:1000
DRAWN BY:	REVIEWED BY:
DM	AM
DATE:	FIGURE NUMBER:
MAY 2025	2



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDING
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION EXCEEDS *TABLE 3 RPI STANDARDS*
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION REMEDIATED
- TEST PIT LOCATION
- FINAL LIMIT OF EXCAVATION
- INTERIM LIMIT OF EXCAVATION

LEGEND IS COLOUR DEPENDENT.
NON-COLOUR COPIES MAY ALTER

INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

PINCHIN

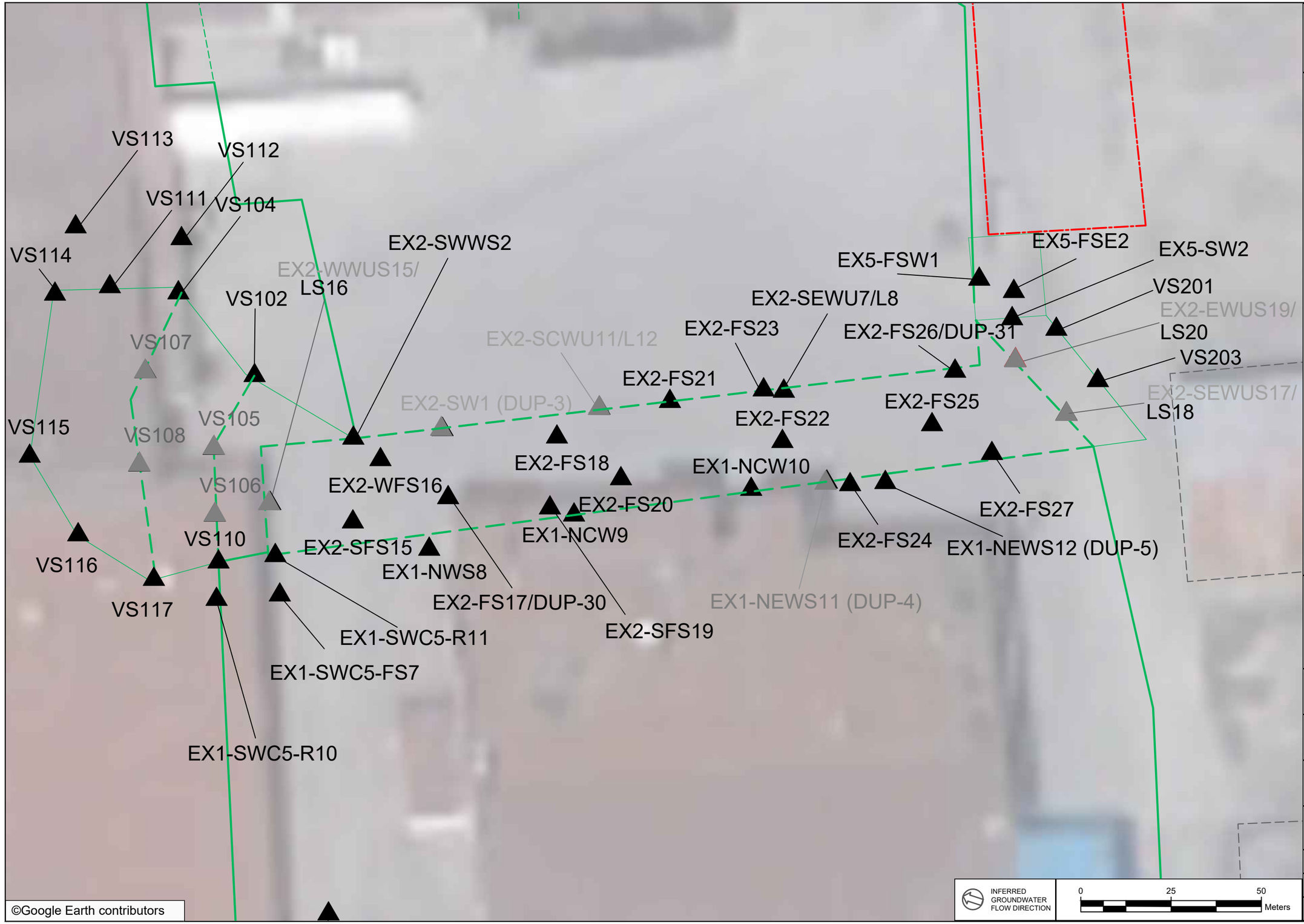
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
DETAIL A1

PROJECT NUMBER:	SCALE:
267991.012	
DRAWN BY:	REVIEWED BY:
DM	AM
DATE:	FIGURE NUMBER:
MAY 2025	3A



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDING
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION EXCEEDS *TABLE 3 RPI STANDARDS*
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION REMEDIATED
- TEST PIT LOCATION
- FINAL LIMIT OF EXCAVATION
- INTERIM LIMIT OF EXCAVATION

INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

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PINCHIN

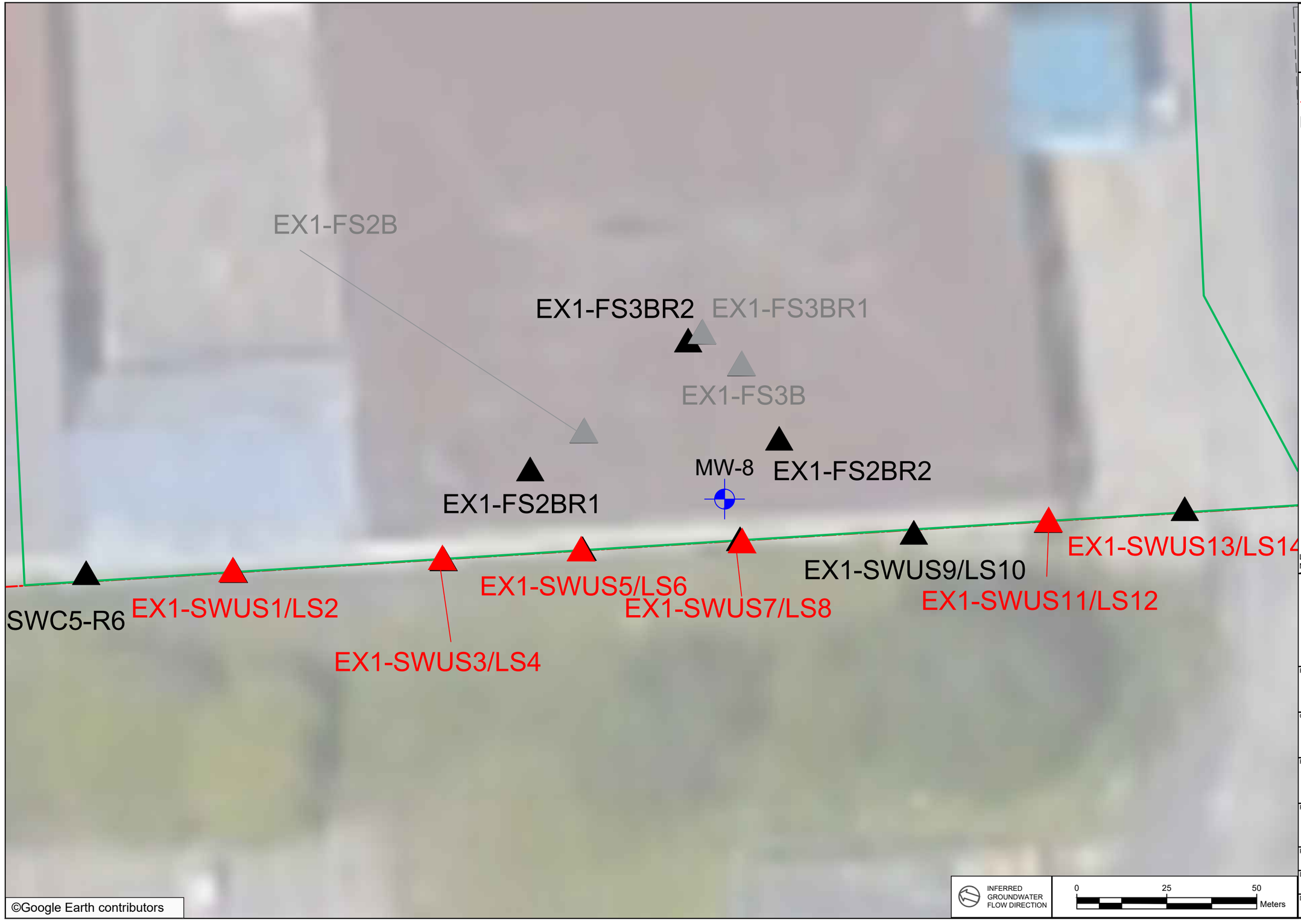
PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: 25 PICKERING HOLDINGS INC.

PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME: DETAIL A2

PROJECT NUMBER:	SCALE:
267991.012	
DRAWN BY: DM	REVIEWED BY: AM
DATE: MAY 2025	FIGURE NUMBER: 3B



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDING
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION EXCEEDS *TABLE 3 RPI STANDARDS*
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION REMEDIATED
- TEST PIT LOCATION
- FINAL LIMIT OF EXCAVATION
- INTERIM LIMIT OF EXCAVATION

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER

INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

PINCHIN

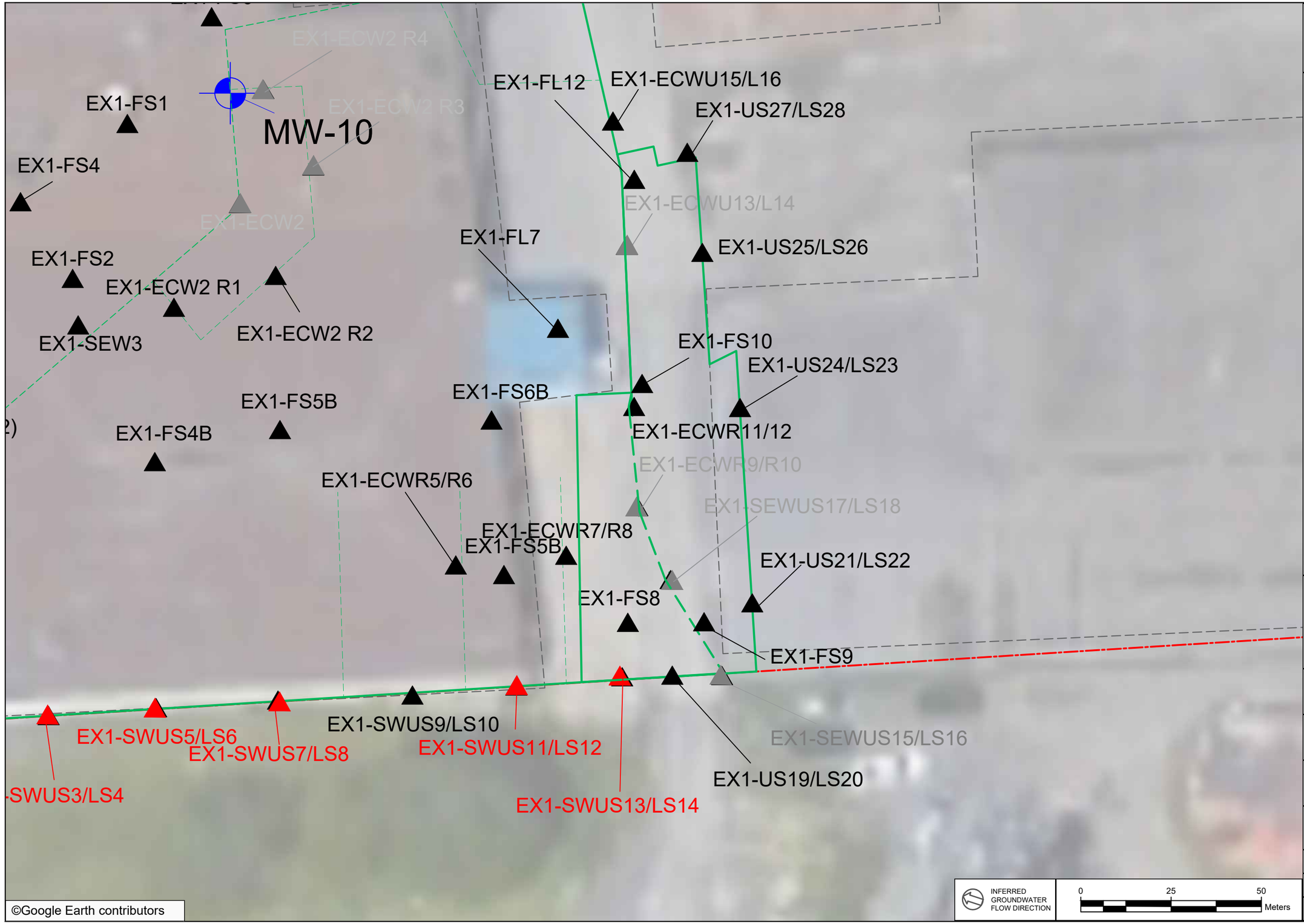
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
25 PICKERING HOLDINGS INC.

PROJECT LOCATION:
25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME:
DETAIL A3

PROJECT NUMBER:	SCALE:
267991.012	
DRAWN BY: DM	REVIEWED BY: AM
DATE: MAY 2025	FIGURE NUMBER: 3C



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDING
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION EXCEEDS *TABLE 3 RPI STANDARDS*
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION REMEDIATED
- TEST PIT LOCATION
- FINAL LIMIT OF EXCAVATION
- INTERIM LIMIT OF EXCAVATION

INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

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PINCHIN

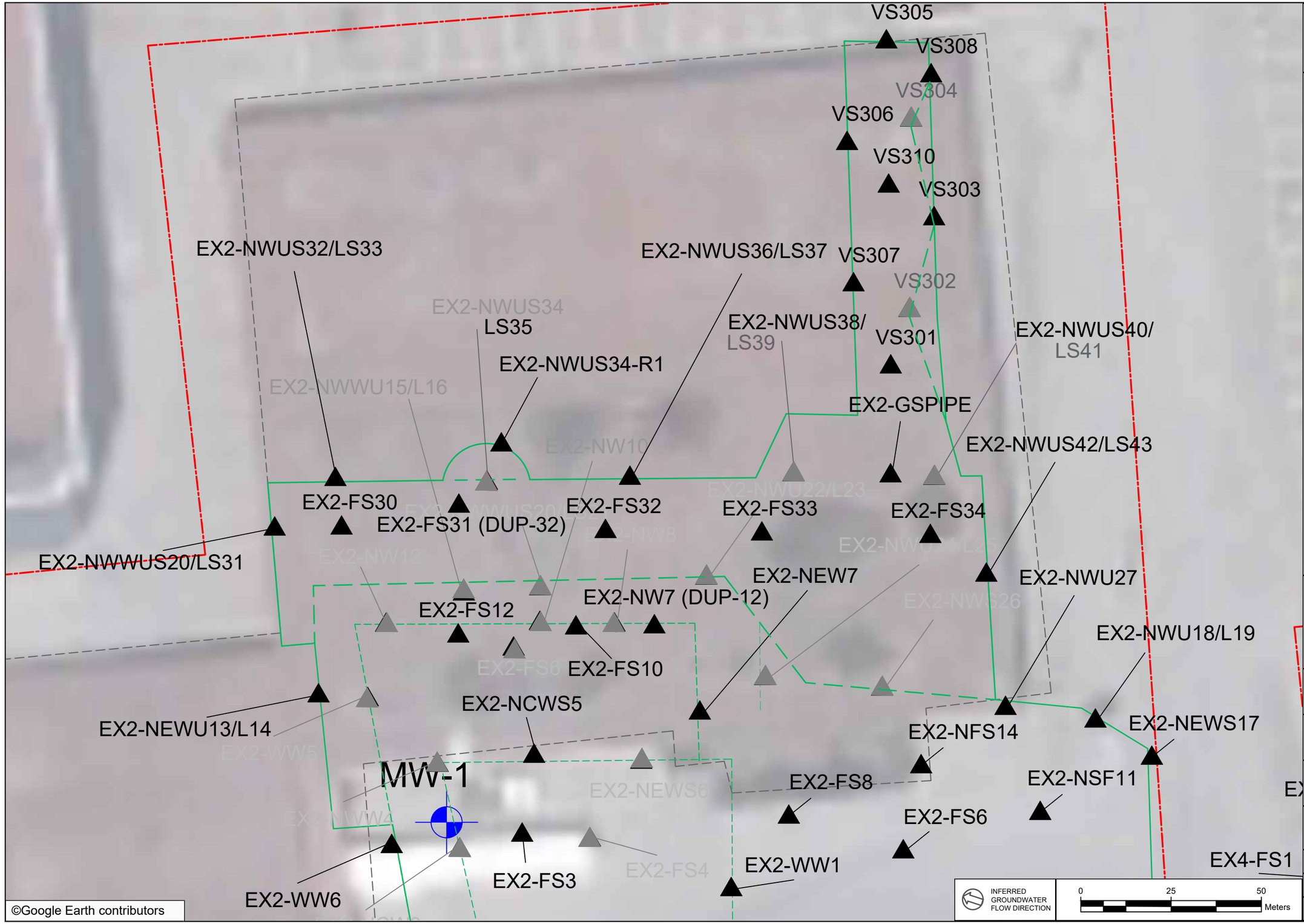
PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: 25 PICKERING HOLDINGS INC.

PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME: DETAIL A4

PROJECT NUMBER:	SCALE:
267991.012	
DRAWN BY: DM	REVIEWED BY: AM
DATE: MAY 2025	FIGURE NUMBER: 3D



N

LEGEND

- PHASE TWO PROPERTY
- FORMER SITE BUILDING
- RAILWAY LINE
- PINCHIN 2021 BOREHOLE/MONITORING WELL
- PINCHIN 2020 BOREHOLE/MONITORING WELL
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION EXCEEDS *TABLE 3 RPI STANDARDS*
- EX#-XX# VERIFICATION SOIL SAMPLE LOCATION REMEDIATED
- TEST PIT LOCATION
- FINAL LIMIT OF EXCAVATION
- INTERIM LIMIT OF EXCAVATION

INFERRED GROUNDWATER FLOW DIRECTION

0 25 50 Meters

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER

PINCHIN

PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: 25 PICKERING HOLDINGS INC.

PROJECT LOCATION: 25 PICKERING PLACE, 1330 AVENUE K, OTTAWA, ONTARIO

FIGURE NAME: DETAIL A5

PROJECT NUMBER:	SCALE:
267991.012	
DRAWN BY: DM	REVIEWED BY: AM
DATE: MAY 2025	FIGURE NUMBER: 3E

APPENDIX E
REMEDIATION ANALYTICAL RESULTS
25 Pickering Holdings Inc.
25 Pickering Place and 1330 Avenue K, Ottawa, ON

Sample Designation	MECP Table 3 SCS (R/P/I-F)	EX1-ECW2	EX1-SWC5	EX2-SWS1	DUP-3 (EX2-NWW4)	EX2-WCW3	EX2-NEWS6	EX2-FS4	EX1-NEWS11	EX5-NW1	DUP-7	EX2-EWUS10	DUP-8	EX2-NEWUS13	EX2-SCWU11	DUP-9	EX7-NW2	EX1-SWC5-FS1	EX1-ECW2 R3	EX1-ECW2 R4	EX2-NWWU15	DUP-11	EX2-NWEU17	EX2-FS6
Sample Collection Date (dd/mm/yyyy)		06/04/2024	06/04/2024	06/04/2024	06/04/2024	06/04/2024	06/04/2024	06/04/2024	06/05/2024	06/07/2024	06/07/2024	06/07/2024	06/07/2024	06/10/2024	06/10/2024	06/10/2024	06/10/2024	06/10/2024	06/11/2024	06/11/2024	06/11/2024	06/11/2024	06/11/2024	06/12/2024
Sample Depth (mbgs)		1.2 - 1.8	1.2 - 1.8	0.4 - 1.0	0.4 - 1.0	0.4 - 1.0	0.4 - 1.0	1.2	1.2 - 1.5	0.2 - 0.5	0.2 - 0.5	0.3 - 1.2	0.3 - 1.2	0.3 - 1.2	0.3 - 1.2	0.3 - 1.2	0.3 - 0.7	1.8	1.2 - 1.8	1.2 - 1.8	0.3 - 1.2	0.3 - 1.2	0.3 - 1.2	1.4
Petroleum Hydrocarbons (PHCs)																								
PHCs F1 (C_6 - C_{10})	65	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	44	<5	-	<5	14	**131**	<5	<5	<5	<5
PHCs F2 (>C_{10} - C_{16})	150	**267**	86	-	<10	<10	25	<10	14	<10	<10	<10	<10	17	12	12	-	97	**272**	**817**	31	<10	<10	<10
PHCs F3 (>C_{16} - C_{34})	1300	254	**1660**	-	138	106	**1460**	<50	**3620**	186	152	91	107	386	451	354	-	**7870**	**2490**	<50	1150	334	333	<50
PHCs F4 (>C_{34} - C_{50})	5600	<50	115	-	<50	<50	70	<50	644	<50	<50	<50	<50	<50	<50	<50	-	110	<50	<50	97	<50	<50	<50
Volatile Organic Compounds																								
Acetone	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	0.097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethylene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene (Total)	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl t-Butyl Ether (MTBE)	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (Total)	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	58	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	0.09	<0.05	-	-	-	0.3	0.41	0.39	-
Acenaphthylene	0.17	-	-	-	-	-	-	-	-	0.07	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	-
Anthracene	0.74	-	-	-	-	-	-	-	-	0.24	0.53	0.13	0.09	0.18	0.05	0.17	0.06	-	-	-	0.49	**1.79**	**1.69**	-
Benzo(a)anthracene	0.63	-	-	-	-	-	-	-	-	**0.87**	**1.66**	0.54	0.38	0.33	0.09	0.26	0.2	-	-	-	0.55	**2.12**	**2.01**	-
Benzo(a)pyrene	0.3	-	-	-	-	-	-	-	-	**0.74**	**1.16**	**0.38**	**0.33**	0.23	0.05	0.17	0.18	-	-	-	**0.37**	**1.25**	**1.16**	-
Benzo(b)fluoranthene	0.78	-	-	-	-	-	-	-	-	**0.87**	**1.74**	0.6	0.51	0.3	0.09	0.2	0.28	-	-	-	0.54	**1.72**	**1.64**	-
Benzo(ghi)perylene	7.8	-	-	-	-	-	-	-	-	0.16	0.43	0.14	0.08	0.13	<0.05	0.09	0.09	-	-	-	0.07	0.24	0.21	-
Benzo(k)fluoranthene	0.78	-	-	-	-	-	-	-	-	0.47	0.69	0.22	0.28	0.31	0.11	0.23	0.12	-	-	-	0.21	0.65	0.5	-
Chrysene	7.8	-	-	-	-	-	-	-	-	0.78	1.36	0.47	0.36	0.52	0.22	0.36	0.18	-	-	-	0.52	1.72	1.58	-
Dibenzo(a,h)anthracene	0.1	-	-	-	-	-	-	-	-	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	0.07	<0.05	-
Fluoranthene	0.69	-	-	-	-	-	-	-	-	**1.63**	**2.98**	0.67	0.66	**1.34**	0.38	**0.85**	0.4	-	-	-	**1.37**	**4.04**	**3.85**	-
Fluorene	69	-	-	-	-	-	-	-	-	0.08	0.18	0.05	<0.05	0.07	<0.05	0.08	<0.05	-	-	-	0.43	0.66	0.63	-
Indeno(1,2,3-cd)pyrene	0.48	-	-	-	-	-	-	-	-	0.12	0.27	0.09	0.08	0.13	<0.05	0.08	0.07	-	-	-	0.08	0.25	0.25	-
1- & 2-Methylnaphthalene	3.4	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	-	-	-	<0.05	0.12	0.12	-
Naphthalene	0.75	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	0.07	<0.05	<0.05	-
Phenanthrene	7.8	-	-	-	-	-	-	-	-	1.17	2.18	0.48	0.3	0.56	0.17	0.45	0.25	-	-	-	1.27	4.64	4.36	-
Pyrene	78	-	-	-	-	-	-	-	-	1.25	2.45	0.65	0.55	1.11	0.33	0.73	0.32	-	-	-	1.14	3.19	3.01	-
Metals																								
Antimony	7.5	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	-	1.5	1.2	<0.8	2.1	1.2	2.4	1	4.6	-	-	-	1.4	1.1	1	<0.8
Arsenic	18	-	-	4	5	4	6	4	-	4	4	3	5	4	5	4	**88**	-	-	-	5	4	3	4
Barium	390	-	-	192	170	188	152	150	-	245	203	144	172	239	207	230	**661**	-	-	-	243	276	275	175
Beryllium	5	-	-	1	0.8	0.8	0.7	0.8	-	<0.5	<0.5	0.5	0.5	<0.5	<0.5	<0.5	1.1	-	-	-	<0.5	<0.5	<0.5	0.9
Boron (Total)	120	-	-	17	23	15	20	10	-	8	7	8	7	7	17	<5	19	-	-	-	6	7	7	12
Boron (Hot Water Soluble)	1.5	-	-	**2.99**	**8.15**	**2.61**	**6.21**	**1.56**	-	0.28	0.29	0.38	0.34	1	**3.76**	1.31	0.41	-	-	-	1.37	1.46	1.28	**2.09**
Cadmium	1.2	-	-	<0.5	0.5	1	0.8	<0.5	-	**1.8**	**1.6**	<0.5	0.8	**1.8**	**4.2**	**2.1**	1	-	-	-	**1.9**	**1.3**	1	<0.5
Chromium (Total)	160	-	-	73	62	57	52	58	-	33	37	36	42	39	27	38	33	-	-	-	33	44	46	66
Chromium (Hexavalent)	10	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	<0.2	<0.2	<0.2	<0.2
Cobalt	22	-	-	20.2	14.1	11	11.1	12.4	-	8.6	8.6	9.5	9.4	8.7	4.5	8.7	9.8	-	-	-	7.7	9.9	11.2	16.6
Copper	180	-	-	21.4	25.5	67	43.3	21.1	-	73.8	81.5	29.9	84.4	46.8	52.5	**209**	44.3	-	-	-	60.5	51.2	34.2	28.9
Lead	120	-	-	18	57	33	93	7	-	**147**	**124**	33	91	**146**	**153**	**124**	**745**	-	-	-	**135**	**141**	97	8
Mercury	1.8	-	-	<0.10	0.11	0.1	0.11	<0.10	-	0.12	<0.10	<0.10	<0.10	0.25	0.16	0.1	0.52	-	-	-	<0.10	<0.10	<0.10	<0.10
Molybdenum	6.9	-	-	0.5	0.5	0.6	0.8	<0.5	-	0.7	0.7	0.7	0.6	0.6	0.9	0.5	6.5	-	-	-	1	0.6	0.5	<0.5
Nickel	130	-	-	33	30	29	26	27	-	21	21	20	27	21	18	22	34	-	-	-	22	23	23	34
Selenium	2.4	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	-	<0.8	<0.8	<0.8	<0.8	0.9	<0.8	<0.8	**8.8**	-	-	-	<0.8	<0.8	<0.8	<0.8
Silver	25	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.5	<0.5	0.6	<0.5
Thallium	1	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2**	-	-	-	<0.5	<0.5	<0.5	<0.5
Uranium	23	-	-	3	2.69	3.45	2.09	0.97	-	0.64	0.67	0.94	0.87	0.83	<0.50	0.77	1.12	-	-	-	0.8	0.8	0.87	0.67
Vanadium	86	-	-	**86.5**	63.4	63.5	54.5	65.6	-	35.4	38.2	41.8	42.6	41	31.1	41.3	48.6	-	-	-	33.5	39.7	46.3	72.7
Zinc	340	-	-	127	153	163	178	52	-	244	215	88	145	220	305	278	276	-	-	-	233	237	207	64

Notes:
MECP Table 3 SCS (R/P/I-F):

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Medium/Fine-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

APPENDIX E
REMEDIATION ANALYTICAL RESULTS
25 Pickering Holdings Inc.
25 Pickering Place and 1330 Avenue K, Ottawa, ON

Sample Designation	MECP Table 3 SCS (R/P/I-F)	EX2-DUP13	EX2-NW10	EX2-NW12	EX2-WW5	EX2-NW8	EX1-SWLS3	EX1-SWUS2	EX1-FS2B	EX1-FS3B	EX1-SWUS3	EX1-SWUS5	EX1-SWLS6	EX1-SWLS8	EX1-SWU11	EX1-ECWUSR9	EX1-SWUS13	EX1-SWLS14	EX1-SEWLS18	EX2-NWLS16	EX1-ECWUSR13	EX1-ECWUSR14	EX2-NWLS21	EX2-NWLS23	EX2-NWLS25
Sample Collection Date (dd/mm/yyyy)		06/12/2024	06/12/2024	06/12/2024	06/12/2024	06/12/2024	06/17/2024	06/17/2024	06/18/2024	06/18/2024	06/18/2024	06/18/2024	06/18/2024	06/18/2024	06/20/2024	06/21/2024	06/21/2024	06/21/2024	06/21/2024	06/25/2024	06/25/2024	06/25/2024	06/25/2024	06/27/2024	06/27/2024
Sample Depth (mbgs)		0.4 - 1.0	0.4 - 1.0	0.4 - 1.0	0.4 - 1.0	0.4 - 1.0	1.5 - 1.8	0.6 - 0.9	1.8	1.8	0.6 - 0.9	0.6 - 0.9	1.5 - 1.8	1.5 - 1.8	0.6 - 0.9	1.2 - 1.8	0.6 - 1.0	1.5 - 1.8	1.5 - 1.8	1.5 - 1.8	0.9 - 1.2	0.9 - 1.2	1.5 - 1.8	1.5 - 1.8	1.5 - 1.8
Petroleum Hydrocarbons (PHCs)																									
PHCs F1 (C_6 - C_{10})	65	<5	-	-	-	<5	<5	<5	<5	<5	-	-	<5	<5	-	<5	-	<5	<5	8	-	-	<5	<5	<5
PHCs F2 (>C_{10} - C_{16})	150	<10	-	-	-	<10	**244**	70	**165**	142	-	-	**278**	23	-	<10	-	61	**394**	**899**	-	-	<10	<10	<10
PHCs F3 (>C_{16} - C_{34})	1300	<50	-	-	-	329	**8440**	**39700**	**5930**	**7020**	-	-	**6090**	**1610**	-	59	-	**6060**	**25500**	**12200**	-	-	77	236	<50
PHCs F4 (>C_{34} - C_{50})	5600	<50	-	-	-	<50	981	**16000**	<50	<50	-	-	74	<50	-	<50	-	79	248	799	-	-	<50	<50	<50
Volatile Organic Compounds																									
Acetone	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	0.097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethylene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene (Total)	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl t-Butyl Ether (MTBE)	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (Total)	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	58	-	-	-	-	-	4.43	0.05	-	-	-	<0.05	-	-	0.16	0.18	<0.05	-	-	-	0.2	<0.05	-	-	
Acenaphthylene	0.17	-	-	-	-	-	**0.66**	<0.05	-	-	-	0.07	-	-	0.06	<0.05	<0.05	-	-	-	<0.05	0.12	-	-	-
Anthracene	0.74	-	-	-	-	-	**5.52**	<0.05	-	-	-	0.07	-	-	0.55	0.19	0.09	-	-	-	0.49	0.19	-	-	-
Benzo(a)anthracene	0.63	-	-	-	-	-	**5.12**	<0.05	-	-	-	0.54	-	-	**2.97**	0.4	0.54	-	-	-	**0.69**	0.37	-	-	-
Benzo(a)pyrene	0.3	-	-	-	-	-	**3.63**	<0.05	-	-	-	**0.46**	-	-	**1.59**	0.22	**0.33**	-	-	-	**0.64**	**0.34**	-	-	-
Benzo(b)fluoranthene	0.78	-	-	-	-	-	**5.28**	<0.05	-	-	-	0.62	-	-	**2.31**	0.3	0.49	-	-	-	0.76	0.46	-	-	-
Benzo(ghi)perylene	7.8	-	-	-	-	-	0.81	<0.05	-	-	-	0.12	-	-	0.65	0.06	0.14	-	-	-	0.23	0.13	-	-	-
Benzo(k)fluoranthene	0.78	-	-	-	-	-	**2.32**	<0.05	-	-	-	0.28	-	-	**1.08**	0.14	0.3	-	-	-	0.37	0.24	-	-	-
Chrysene	7.8	-	-	-	-	-	3.87	<0.05	-	-	-	0.54	-	-	2.3	0.31	0.41	-	-	-	0.77	0.43	-	-	-
Dibenzo(a,h)anthracene	0.1	-	-	-	-	-	**0.27**	<0.05	-	-	-	<0.05	-	-	**0.14**	<0.05	<0.05	-	-	-	0.1	<0.05	-	-	-
Fluoranthene	0.69	-	-	-	-	-	**10.6**	0.62	-	-	-	**0.76**	-	-	**4.81**	0.69	**0.99**	-	-	-	**1.3**	0.68	-	-	-
Fluorene	69	-	-	-	-	-	4.34	0.19	-	-	-	<0.05	-	-	0.23	0.11	<0.05	-	-	-	0.29	<0.05	-	-	-
Indeno(1,2,3-cd)pyrene	0.48	-	-	-	-	-	**0.99**	<0.05	-	-	-	0.11	-	-	**0.6**	<0.05	0.11	-	-	-	0.23	0.12	-	-	-
1- & 2-Methylnaphthalene	3.4	-	-	-	-	-	2.13	0.14	-	-	-	<0.05	-	-	<0.05	0.08	<0.05	-	-	-	0.21	<0.05	-	-	-
Naphthalene	0.75	-	-	-	-	-	**1.84**	<0.05	-	-	-	<0.05	-	-	0.07	<0.05	<0.05	-	-	-	0.19	<0.05	-	-	-
Phenanthrene	7.8	-	-	-	-	-	**14.6**	0.7	-	-	-	0.46	-	-	2.69	0.76	0.59	-	-	-	1.31	0.39	-	-	-
Pyrene	78	-	-	-	-	-	8.29	1.5	-	-	-	0.84	-	-	4.01	0.58	0.79	-	-	-	1.09	0.57	-	-	-
Metals																									
Antimony	7.5	<0.8	<0.8	<0.8	<0.8	<0.8	-	-	-	-	<0.8	<0.8	-	-	<0.8	<0.8	<0.8	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	18	4	4	3	6	6	-	-	-	-	3	2	-	-	1	4	4	-	-	2	2	2	5	3	4
Barium	390	181	154	132	177	232	-	-	-	-	200	103	-	-	106	102	74.7	-	-	102	96	126	167	104	143
Beryllium	5	1.1	0.9	0.7	1.3	1	-	-	-	-	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	0.9	<0.5	0.5	0.5
Boron (Total)	120	16	30	14	13	9	-	-	-	-	6	<5	-	-	<5	9	6	-	-	35	<5	5	13	18	6
Boron (Hot Water Soluble)	1.5	**2.4**	**12**	**2.41**	**2.27**	0.46	-	-	-	-	0.52	0.18	-	-	0.3	**4.57**	0.19	-	-	**23.7**	0.21	0.23	**2.68**	**9.5**	**1.68**
Cadmium	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	0.7	0.5	0.5
Chromium (Total)	160	71	58	46	73	80	-	-	-	-	29	31	-	-	27	43	16	-	-	28	18	22	70	39	40
Chromium (Hexavalent)	10	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cobalt	22	18.7	12	10	21.7	15.1	-	-	-	-	6.6	7.5	-	-	7.1	9.6	4.7	-	-	5.5	5.3	5.6	17	8.2	9.4
Copper	180	30.1	16.9	17.2	28	27.8	-	-	-	-	57.1	17.9	-	-	19.5	21.5	22	-	-	16.7	21.9	20.3	33.4	17.2	19.8
Lead	120	9	26	14	9	8	-	-	-	-	98	10	-	-	26	42	50	-	-	54	48	44	19	45	19
Mercury	1.8	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	-	-	0.14	<0.10	-	-	<0.10	0.19	<0.10	-	-	<0.10	<0.10	<0.10	<0.10	0.1	<0.10
Molybdenum	6.9	<0.5	<0.5	0.5	1.1	0.6	-	-	-	-	0.7	<0.5	-	-	<0.5	<0.5	1	-	-	0.6	0.6	<0.5	0.6	0.6	<0.5
Nickel	130	37	29	23	35	37	-	-	-	-	24	17	-	-	19	19	11	-	-	29	11	13	34	19	20
Selenium	2.4	<0.8	<0.8	<0.8	<0.8	<0.8	-	-	-	-	<0.8	<0.8	-	-	<0.8	<0.8	<0.8	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	25	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	1	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	23	0.79	1.82	1.82	1.53	0.59	-	-	-	-	0.53	0.63	-	-	0.81	0.89	0.51	-	-	0.62	0.5	0.52	0.7	1.02	0.88
Vanadium	86	80.1	53.3	49.3	**94.5**	**87.9**	-	-	-	-	36.9	43.5	-	-	38.3	40.5	18.4	-	-	69.1	25.3	28.2	80.1	37.4	44.9
Zinc	340	66	109	73	65	77	-	-	-	-	**420**	55	-	-	89	94	79	-	-	80	50	96	102	114	94

Notes:
MECP Table 3 SCS (R/P/I-F):

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Medium/Fine-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

APPENDIX E
REMEDIATION ANALYTICAL RESULTS
25 Pickering Holdings Inc.
25 Pickering Place and 1330 Avenue K, Ottawa, ON

Sample Designation	MECP Table 3 SCS (R/P/I-F)	EX2-NWS26	EX1-FS2BR1	EX1-FS2BR2	EX1-FS3BR1	EX1-FS3BR2	EX7-WWS4	EX7-SWS5	EX7-NWWS6	EX7-FS23	EX7-FS24	DUP28	EX7-NEWS7	EX7-EWS8	EX7-FS5	EX1-EWLS23	EX1-EWUS24	EX1-SWUS19	EX1-SWLS20	EX1-SEWUS21	EX1-SEWLS22	EX1-FS9	EX1-EWUS25	EX1-US27	EX1-EWLS26
Sample Collection Date (dd/mm/yyyy)		06/27/2024	07/11/2024	07/11/2024	07/11/2024	13/11/2024	07/11/2024	07/11/2024	07/11/2024	07/11/2024	07/11/2024	07/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024	08/11/2024	11/11/2024	11/11/2024	11/11/2024
Sample Depth (mbgs)		1.5	2.6	2.6	2.6	3.4	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7	1.5-2.4	1.2-1.5	1.2-1.8	2.43-3.65	1.2-1.8	2.43-3.65	3.7	1.2-1.8	1.2-1.8	2.13-2.74
Petroleum Hydrocarbons (PHCs)																									
PHCs F1 (C_6 - C_{10})	65	<5	<5	<5	<5	<5	-	-	-	-	-	-	-	-	-	<5	-	<5	<5	<5	<5	<5	-	-	<5
PHCs F2 (>C_{10} - C_{16})	150	24	<10	<10	97	<10	-	-	-	-	-	-	-	-	-	<10	-	<10	<10	<10	<10	<10	-	-	<10
PHCs F3 (>C_{16} - C_{34})	1300	**1590**	<50	<50	**3270**	<50	-	-	-	-	-	-	-	-	-	<50	-	<50	<50	<50	<50	<50	-	-	<50
PHCs F4 (>C_{34} - C_{50})	5600	133	<50	<50	<50	<50	-	-	-	-	-	-	-	-	-	<50	-	<50	<50	<50	<50	<50	-	-	<50
Volatile Organic Compounds																									
Acetone	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	<0.50	<0.50
Benzene	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromodichloromethane	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Bromoform	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Bromomethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Carbon Tetrachloride	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Chlorobenzene	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Chloroform	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
Dibromochloromethane	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	0.097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Dichlorodifluoromethane	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
1,1-Dichloroethane	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
1,2-Dichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	<0.03	<0.03
1,1-Dichloroethylene	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
cis-1,2-Dichloroethylene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
trans-1,2-Dichloroethylene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
1,2-Dichloropropane	0.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	<0.03	<0.03
1,3-Dichloropropene (Total)	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
Ethylbenzene	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
Hexane	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Methyl Ethyl Ketone	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	<0.50	<0.50
Methyl t-Butyl Ether (MTBE)	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Methylene Chloride	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Styrene	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
1,1,2,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Tetrachloroethylene	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Toluene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
Trichloroethylene	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	<0.03	<0.03
Trichlorofluoromethane	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Vinyl Chloride	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
Xylenes (Total)	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Acenaphthylene	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Anthracene	0.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Benzo(a)anthracene	0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Benzo(a)pyrene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	0.07
Benzo(ghi)perylene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Chrysene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	0.09
Dibenzo(a,h)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Fluoranthene	0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	0.18
Fluorene	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	0.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
1- & 2-Methylnaphthalene	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Naphthalene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Phenanthrene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	0.13
Pyrene	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	0.14
Metals																									
Antimony	7.5	<0.8	-	-	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-	-	-	-	-	<0.8	<0.8	-
Arsenic	18	3	-	-	-	-	1	2	3	2	2	3	<1	1	<1	<1	<1	-	-	-	-	-	2	1	-
Barium	390	192	-	-	-	-	48.8	90.9	140	58.9	76	136	41	68.6	57.7	100	37.7	-	-	-	-	-	129	69.8	-
Beryllium	5	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	0.6	<0.5	-
Boron (Total)	120	6	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-	-	-	6	5	-
Boron (Hot Water Soluble)	1.5	**1.6**	-	-	-	-	0.16	0.11	0.15	0.26	0.17	0.14	<0.10	0.13	0.13	<0.10	<0.10	-	-	-	-	-	0.34	0.44	-
Cadmium	1.2	**3.5**	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Chromium (Total)	160	41	-	-	-	-	23	17	28	22	20	26	10	19	12	37	12	-	-	-	-	-	41	40	-
Chromium (Hexavalent)	10	<0.2	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	-
Cobalt	22	8	-	-	-	-	6	6.9	6.8	7.1	7.2	6.5	3.3	5.9	4.6	7.6	3.6	-	-	-	-	-	9.5	7.3	-
Copper	180	27.6	-	-	-	-	12.3	17.1	17.9	15	44.2	19.1	8.1	12.7	10.4	18.3	11.8	-	-	-	-	-	14.3	13.4	-
Lead	120	111	-	-	-	-	5	7	81	8	10	88	3	7	4	5	3	-	-	-	-	-	4	4	-
Mercury	1.8	0.24	-	-	-	-	<0.10	<0.10	0.1	<0.10	<0.10	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	-	-	-	<0.10	<0.10	-
Molybdenum	6.9	0.5	-	-	-	-	<0.5	1.5	<0.5	<0.5	0.7	<0.5	0.5	0.8	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Nickel	130	19	-	-	-	-	13	15	15	14	15	15	5	12	8	20	7	-	-	-	-	-	20	20	-
Selenium	2.4	<0.8	-	-	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-	-	-	-	-	<0.8	<0.8	-
Silver	25	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Thallium	1	<0.5	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Uranium	23	1.41	-	-	-	-	0.9	0.85	0.73	1.03	0.85	0.65	0.51	0.85	0.63	0.77	0.66	-	-	-	-	-	0.64	0.63	-
Vanadium	86	33.5	-	-	-	-	27.4	26	30.3	28.2	28.4	29.1	17.5	26.3	21.3	36.3	20.7	-	-	-	-	-	51	39	-
Zinc	340	183	-	-	-	-	27	31	89	31	34	91	14	29	20	42	18	-	-	-	-	-	56	44	-

Notes:
MECP Table 3 SCS (R/P/I-F):

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Medium/Fine-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

APPENDIX E
REMEDIATION ANALYTICAL RESULTS
25 Pickering Holdings Inc.
25 Pickering Place and 1330 Avenue K, Ottawa, ON

Sample Designation	MECP Table 3 SCS (R/P/I-F)	EX1-EWLS28	EX1-FS10	EX1-FS11	EX1-FS12	DUP29	EX2-WWUS15	EX2-WWLS16	EX2-SFS15	EX2-WFS16	EX2-FS17	EX2-FS18	DUP30	EX2-SEWUS17	EX2-EWUS19	EX2-SFS19	EX2-FS20	EX2-FS21	EX2-SFS24	EX2-FS25	EX2-FS26	EX2-SFS27	EX2-SEWLS19	EX2-FS22	EX2-FS23
Sample Collection Date (dd/mm/yyyy)		11/11/2024	11/11/2024	11/11/2024	11/11/2024	11/11/2024	11/11/2024	11/11/2024	11/11/2024	11/11/2024	11/11/2024	11/11/2024	11/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024
Sample Depth (mbgs)		2.13-2.74	2.4	2.74	2.74	2.13-2.74	0.4-1.0	1.21-1.83	1.83	1.8	1.83	3.05	1.9	0.6-1.5	0.6-1.5	3.05	3.05	3.1	3.05	3.05	3.05	3.05	2.45-3.05	5.48	3.05
Petroleum Hydrocarbons (PHCs)																									
PHCs F1 (C_6 - C_{10})	65	<5	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PHCs F2 (>C_{10} - C_{16})	150	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHCs F3 (>C_{16} - C_{34})	1300	<50	<50	<50	<50	<50	-	<50	<50	<50	<50	<50	<50	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHCs F4 (>C_{34} - C_{50})	5600	<50	<50	<50	<50	<50	-	<50	<50	<50	<50	<50	<50	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Volatile Organic Compounds																									
Acetone	28	<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	0.17	<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	<0.02	<0.02	<0.02	<0.02	-	-
Bromodichloromethane	13	<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	0.26	<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	<0.05	-	-	-	-	-	<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	0.12	<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	2.7	<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	0.18	<0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-
Dibromochloromethane	9.4	<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	4.3	<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	6	<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	0.097	<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	25	<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	11	<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	-	-
1,2-Dichloroethane	0.05	<0.03	-	-	-	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-
1,1-Dichloroethylene	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	<0.05	-	-
cis-1,2-Dichloroethylene	30	<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	-	-
trans-1,2-Dichloroethylene	0.75	<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	0.085	<0.03	-	-	-	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-
1,3-Dichloropropene (Total)	0.083	<0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-
Ethylbenzene	15	<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	<0.05	<0.05	<0.05	<0.05	-	-
Ethylene Dibromide	0.05	<0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-
Hexane	34	<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	-	-
Methyl Ethyl Ketone	44	<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	4.3	<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 t-Butyl Ether (MTBE)	1.4	<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	0.96	<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	2.2	<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	<0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-
1,1,2,2-Tetrachloroethane	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	<0.05	-	-
Tetrachloroethylene	2.3	<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	-	-
Toluene	6	<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	<0.05	<0.05	<0.05	<0.05	-	-
1,1,1-Trichloroethane	3.4	<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	<0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	-
Trichloroethylene	0.52	<0.03	-	-	-	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-
Trichlorofluoromethane	5.8	<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	0.022	<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	-	-
Xylenes (Total)	25	<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	<0.05	<0.05	<0.05	<0.05	-	-
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	58	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	0.06	0.62	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	0.17	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
Anthracene	0.74	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	0.13	**1.68**	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.63	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	0.23	**2.13**	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.3	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	0.14	**1.19**	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.78	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	0.16	**1.45**	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	7.8	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	0.08	0.53	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.78	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	0.13	0.7	-	-	-	-	-	-	-	-	-	-
Chrysene	7.8	<0.05	-	-	-	-	0.07	-	-	-	-	-	-	0.4	2.28	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	0.1	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	0.08	-	-	-	-	-	-	-	-	-	-
Fluoranthene	0.69	<0.05	-	-	-	-	0.14	-	-	-	-	-	-	**0.97**	**5.85**	-	-	-	-	-	-	-	-	-	-
Fluorene	69	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	0.84	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.48	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	0.06	0.46	-	-	-	-	-	-	-	-	-	-
1- & 2-Methylnaphthalene	3.4	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	0.53	-	-	-	-	-	-	-	-	-	-
Naphthalene	0.75	<0.05	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	0.31	-	-	-	-	-	-	-	-	-	-
Phenanthrene	7.8	<0.05	-	-	-	-	0.07	-	-	-	-	-	-	0.62	5.04	-	-	-	-	-	-	-	-	-	-
Pyrene	78	<0.05	-	-	-	-	0.12	-	-	-	-	-	-	0.84	4.6	-	-	-	-	-	-	-	-	-	-
Metals																									
Antimony	7.5	-	-	-	-	-	1	-	-	-	-	-	-	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-
Arsenic	18	-	-	-	-	-	6	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-
Barium	390	-	-	-	-	-	151	-	-	-	-	-	-	110	178	-	-	-	-	-	-	-	-	-	-
Beryllium	5	-	-	-	-	-	<0.5	-	-	-	-	-	-	<0.5	0.5	-	-	-	-	-	-	-	-	-	-
Boron (Total)	120	-	-	-	-	-	7	-	-	-	-	-	-	<5	<5	-	-	-	-	-	-	-	-	-	-
Boron (Hot Water Soluble)	1.5	-	-	-	-	-	0.67	-	-	-	-	-	-	0.33	0.55	-	-	-	-	-	-	-	-	-	-
Cadmium	1.2	-	-	-	-	-	1	-	-	-	-	-	-	<0.5	0.5	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	160	-	-	-	-	-	34	-	-	-	-	-	-	30	41	-	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	10	-	-	-	-	-	<0.2	-	-	-	-	-	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-
Cobalt	22	-	-	-	-	-	8.3	-	-	-	-	-	-	8.9	9.1	-	-	-	-	-	-	-	-	-	-
Copper	180	-	-	-	-	-	137	-	-	-	-	-	-	20.5	42.1	-	-	-	-	-	-	-	-	-	-
Lead	120	-	-	-	-	-	**175**	-	-	-	-	-	-	41	115	-	-	-	-	-	-	-	-	-	-
Mercury	1.8	-	-	-	-	-	0.11	-	-	-	-	-	-	<0.10	<0.10	-	-	-	-	-	-	-	-	-	-
Molybdenum	6.9	-	-	-	-	-	1.1	-	-	-	-	-	-	<0.5	0.6	-	-	-	-	-	-	-	-	-	-
Nickel	130	-	-	-	-	-	23	-	-	-	-	-	-	18	22	-	-	-	-	-	-	-	-	-	-
Selenium	2.4	-	-	-	-	-	<0.8	-	-	-	-	-	-	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-
Silver	25	-	-	-	-	-	<0.5	-	-	-	-	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Thallium	1	-	-	-	-	-	<0.5	-	-	-	-	-	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
Uranium	23	-	-	-	-	-	0.51	-	-	-	-	-	-	0.55	0.76	-	-	-	-	-	-	-	-	-	-
Vanadium	86	-	-	-	-	-	39.5	-	-	-	-	-	-	42.3	45.4	-	-	-	-	-	-	-	-	-	-
Zinc	340	-	-	-	-	-	219	-	-	-	-	-	-	81	167	-	-	-	-	-	-	-	-	-	-

Notes:
MECP Table 3 SCS (R/P/I-F):

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Medium/Fine-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

APPENDIX E
REMEDIATION ANALYTICAL RESULTS
25 Pickering Holdings Inc.
25 Pickering Place and 1330 Avenue K, Ottawa, ON

Sample Designation	MECP Table 3 SCS (R/P/I-F)	DUP31	EX2-EWLS20	EX2-FS30	EX2-FS31	EX2-FS32	EX2-FS33	EX2-FS34	EX2-NWWUS30	EX2-NWWLS31	EX2-NWUS32	EX2-NWLS33	EX2-NWUS34	DUP32	EX2-NWLS35	EX2-NWUS36	EX2-NWLS37	EX2-NWUS38	EX2-NWLS39	EX2-NWUS40	EX2-NWLS41	EX2-NWUS42	EX2-NWLS43	DUP33	3X2-GSPIPE
Sample Collection Date (dd/mm/yyyy)		12/11/2024	12/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024	13/11/2024
Sample Depth (mbgs)		3.05	2.45-3.05	2.1	2.1	2.1	2.1	2.1	0.3-1.2	1.5-2.1	0.3-1.2	1.5-2.1	0.3-1.2	2.1	1.5-2.1	0.3-1.2	1.5-2.1	0.3-1.2	1.5-2.1	0.3-1.2	1.5-2.1	0.3-1.2	1.5-2.1	1.5-2.1	2.1
Petroleum Hydrocarbons (PHCs)																									
PHCs F1 (C_6 - C_{10})	65	<5	<5	<5	<5	<5	<5	<5	-	<5	-	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	59
PHCs F2 (>C_{10} - C_{16})	150	<10	<10	<10	<10	<10	<10	<10	-	<10	-	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	82
PHCs F3 (>C_{16} - C_{34})	1300	<50	<50	<50	<50	<50	<50	<50	-	201	-	<50	-	<50	<50	<50	<50	91	<50	<50	<50	230	<50	98	954
PHCs F4 (>C_{34} - C_{50})	5600	<50	<50	<50	<50	<50	<50	<50	-	<50	-	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Volatile Organic Compounds																									
Acetone	28	-	-						-		-		-												
Benzene	0.17	-	-	<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	<0.02	<0.02	<0.02	<0.02
Bromodichloromethane	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	0.097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethylene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene (Total)	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	15	-	-	<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	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl t-Butyl Ether (MTBE)	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	6	-	-	<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	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (Total)	25	-	-	<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	<0.05	<0.05	<0.05	<0.05
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	0.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1- & 2-Methylnaphthalene	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																									
Antimony	7.5	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-
Arsenic	18	-	-	<1	1	<1	<1	<1	5	2	4	2	2	1	3	3	2	3	1	1	2	2	2	2	-
Barium	390	-	-	25	59.7	43.2	43.7	36.4	112	83	68.9	58.3	97.5	63.8	102	49.9	87.7	129	97.2	59.7	123	157	164	112	-
Beryllium	5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Boron (Total)	120	-	-	<5	<5	<5	<5	<5	6	<5	<5	<5	6	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	<5	-
Boron (Hot Water Soluble)	1.5	-	-	0.28	0.37	0.22	0.11	<0.10	0.14	0.82	1.45	0.45	**2.16**	0.41	0.55	<0.10	1.47	0.26	**2.14**	0.37	**1.67**	0.57	1	**2.37**	-
Cadmium	1.2	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	-
Chromium (Total)	160	-	-	9	17	11	9	10	21	28	23	19	24	17	27	10	28	17	23	19	29	31	34	30	-
Chromium (Hexavalent)	10	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
Cobalt	22	-	-	2.7	4.8	3.2	3.5	2.2	8.4	7.1	5.9	4.8	6.3	5.2	7.2	5.5	7.1	6.4	6.4	5.2	7.5	8.5	7.9	7.4	-
Copper	180	-	-	7.5	12.9	8.5	8.5	7.8	21.8	18	19.1	18.9	20.6	13.9	18.3	12.4	8.4	19.5	6.9	6.3	11	14.8	12.9	11.7	-
Lead	120	-	-	2	3	3	2	3	14	12	19	4	21	4	7	7	6	20	6	6	16	29	12	13	-
Mercury	1.8	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.17	<0.10	<0.10	<0.10	<0.10	<0.10	-
Molybdenum	6.9	-	-	0.6	<0.5	<0.5	<0.5	<0.5	1.1	0.7	1.4	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Nickel	130	-	-	5	8	5	6	5	17	17	14	12	15	9	16	9	14	13	11	11	14	16	16	15	-
Selenium	2.4	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-
Silver	25	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Thallium	1	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Uranium	23	-	-	<0.50	0.57	0.5	<0.50	<0.50	0.69	0.8	0.64	0.58	0.79	0.57	0.74	0.52	0.8	0.64	0.78	<0.50	1.21	1.04	1.38	1.05	-
Vanadium	86	-	-	15.8	25.4	21.1	18.3	17.6	33.9	39.8	27.1	29.3	34	26.7	37.6	20.1	33.1	27	26.6	25.6	32.2	35	33.6	33	-
Zinc	340	-	-	12	24	16	13	14	47	46	59	23	53	25	33	23	40	52	43	34	67	141	70	74	-

Notes:
MECP Table 3 SCS (R/P/I-F):

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Medium/Fine-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

APPENDIX E
REMEDIATION ANALYTICAL RESULTS
25 Pickering Holdings Inc.
25 Pickering Place and 1330 Avenue K, Ottawa, ON

Sample Designation	MECP Table 3 SCS (R/P/I-F)	VS101	VS102	VS103	VS104	VS105	VS106	VS107	VS108	VS201	VS202	DUP34	VS203	VS204	VS205	VS206	VS207	VS208	VS301	DUP 35	VS302	VS303	VS304	VS305	VS109
Sample Collection Date (dd/mm/yyyy)		27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	27/11/2024	05/12/2024
Sample Depth (mbgs)		0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 0.9	0 - 0.9	0 - 0.9	0 - 0.9	0 - 0.9	0 - 0.9	0 - 0.9	0 - 0.9	0 - 0.9	2.7	2.7	1.2 - 1.8	1.2 - 1.8	1.2 - 1.8	1.2 - 1.8	0 - 1.2
Petroleum Hydrocarbons (PHCs)																									
PHCs F1 (C_6 - C_{10})	65	-	-	<5	-	<5	<5	-	<5	-	-	-	-	-	-	-	-	-	<5	<5	9	<5	<5	<5	-
PHCs F2 (>C_{10} - C_{16})	150	-	-	<10	-	<10	<10	-	<10	-	-	-	-	-	-	-	-	-	<10	<10	**206**	43	19	<10	-
PHCs F3 (>C_{16} - C_{34})	1300	-	-	<50	-	349	510	-	159	-	-	-	-	-	-	-	-	-	<50	<50	**5010**	1080	**6420**	<50	-
PHCs F4 (>C_{34} - C_{50})	5600	-	-	<50	-	<50	<50	-	<50	-	-	-	-	-	-	-	-	-	<50	<50	112	<50	<50	<50	-
Volatile Organic Compounds																									
Acetone	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.17	-	-	<0.02	-	<0.02	<0.02	-	<0.02	-	-	-	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
Bromodichloromethane	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	0.097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethylene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene (Total)	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	15	-	-	<0.05	-	<0.05	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Ethylene Dibromide	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl t-Butyl Ether (MTBE)	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	6	-	-	<0.05	-	<0.05	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
1,1,1-Trichloroethane	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (Total)	25	-	-	<0.05	-	<0.05	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	58	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Acenaphthylene	0.17	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Anthracene	0.74	-	-	-	-	-	-	-	-	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Benzo(a)anthracene	0.63	-	-	-	-	-	-	-	-	0.2	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	0.08	-	-	-	-	-	-	-
Benzo(a)pyrene	0.3	-	-	-	-	-	-	-	-	0.21	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Benzo(b)fluoranthene	0.78	-	-	-	-	-	-	-	-	0.49	<0.05	<0.05	0.09	0.07	<0.05	<0.05	<0.05	0.14	-	-	-	-	-	-	-
Benzo(ghi)perylene	7.8	-	-	-	-	-	-	-	-	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.78	-	-	-	-	-	-	-	-	0.28	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	0.1	-	-	-	-	-	-	-
Chrysene	7.8	-	-	-	-	-	-	-	-	0.41	<0.05	<0.05	0.11	0.07	0.08	<0.05	<0.05	0.15	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	0.1	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Fluoranthene	0.69	-	-	-	-	-	-	-	-	0.62	<0.05	<0.05	0.22	0.14	0.12	<0.05	<0.05	0.35	-	-	-	-	-	-	-
Fluorene	69	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	0.48	-	-	-	-	-	-	-	-	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
1- & 2-Methylnaphthalene	3.4	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Naphthalene	0.75	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-
Phenanthrene	7.8	-	-	-	-	-	-	-	-	0.27	<0.05	<0.05	0.11	0.13	0.1	<0.05	<0.05	0.12	-	-	-	-	-	-	-
Pyrene	78	-	-	-	-	-	-	-	-	0.52	<0.05	<0.05	0.2	0.15	0.12	<0.05	<0.05	0.26	-	-	-	-	-	-	-
Metals																									
Antimony	7.5	<0.8	<0.8	<0.8	<0.8	0.9	<0.8	<0.8	1	-	-	-	-	-	-	-	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	18	2	2	1	2	5	6	2	2	-	-	-	-	-	-	-	-	-	2	1	3	<1	2	2	1
Barium	390	48.1	65.9	118	95.6	184	240	71	92.7	-	-	-	-	-	-	-	-	-	121	108	124	39.9	169	213	72.4
Beryllium	5	<0.5	<0.5	0.5	<0.5	0.6	0.7	<0.5	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
Boron (Total)	120	6	8	13	8	18	10	7	11	-	-	-	-	-	-	-	-	-	<5	5	7	<5	<5	5	<5
Boron (Hot Water Soluble)	1.5	0.33	0.33	**4.84**	0.92	**6.26**	**1.6**	**1.95**	**2.81**	-	-	-	-	-	-	-	-	-	1.02	1.26	**1.68**	0.45	0.52	0.64	0.28
Cadmium	1.2	<0.5	<0.5	<0.5	<0.5	0.8	0.6	<0.5	0.6	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
Chromium (Total)	160	16	16	35	26	63	54	16	33	-	-	-	-	-	-	-	-	-	27	28	36	12	26	39	27
Chromium (Hexavalent)	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cobalt	22	5	6	8.9	7.1	11.3	10.8	5.2	6.2	-	-	-	-	-	-	-	-	-	9.4	8.7	7.4	4.1	7.7	10.2	5.6
Copper	180	16.4	21.8	10.6	24.6	21.8	20	18.1	17.9	-	-	-	-	-	-	-	-	-	8.2	8.3	18.8	10.2	21.6	13.6	18.7
Lead	120	27	13	18	10	**135**	29	18	54	-	-	-	-	-	-	-	-	-	6	5	27	5	29	8	4
Mercury	1.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	-	-	-	-	-	-	-	-	<0.10	<0.10	1.59	0.38	0.3	<0.10	<0.10
Molybdenum	6.9	0.6	0.6	<0.5	1.6	0.5	0.7	0.8	0.8	-	-	-	-	-	-	-	-	-	<0.5	<0.5	0.8	<0.5	0.9	<0.5	<0.5
Nickel	130	12	13	20	17	27	26	13	15	-	-	-	-	-	-	-	-	-	15	15	18	8	15	21	16
Selenium	2.4	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-	-	-	-	-	-	-	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	23	0.51	0.56	1.57	0.94	1.1	1.19	0.96	0.86	-	-	-	-	-	-	-	-	-	1.17	0.93	1.38	<0.50	0.84	1.36	0.51
Vanadium	86	28	24	43.6	32.2	55.8	59.9	20.5	24.2	-	-	-	-	-	-	-	-	-	29.7	28.2	35	20.2	46.2	36.1	29.6
Zinc	340	40	77	103	45	138	131	35	69	-	-	-	-	-	-	-	-	-	66	68	94	26	58	84	35

Notes:
MECP Table 3 SCS (R/P/I-F):

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Medium/Fine-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

APPENDIX E
REMEDIATION ANALYTICAL RESULTS
25 Pickering Holdings Inc.
25 Pickering Place and 1330 Avenue K, Ottawa, ON

Sample Designation	MECP Table 3 SCS (R/P/I-F)	VS110	VS111	VS112	VS113	VS114	VS115	VS116	VS117	VS118	DUP38	VS119	VS120	VS306	VS307	VS308	VS309	VS310	DUP39	EX2-FS36	EX2-FS37	EX2-NWUS34-R	Ex2-GSPipe	EX2-FS35
Sample Collection Date (dd/mm/yyyy)		05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	05/12/2024	27/02/2025	27/02/2025	27/02/2025	27/02/2025	27/02/2025
Sample Depth (mbgs)		0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	0 - 1.2	1.2 - 2.1	1.2 - 2.1	1.2 - 2.1	1.2 - 2.1	2.4	2.4	2.7	2.7	0.3 - 1.2	1.8	1.5
Petroleum Hydrocarbons (PHCs)																								
PHCs F1 (C_6 - C_{10})	65	-	-	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	<5	<5	-	-	-
PHCs F2 (>C_{10} - C_{16})	150	-	-	-	-	-	-	-	-	-	-	-	-	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-
PHCs F3 (>C_{16} - C_{34})	1300	-	-	-	-	-	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50	<50	-	-	-
PHCs F4 (>C_{34} - C_{50})	5600	-	-	-	-	-	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50	<50	-	-	-
Volatile Organic Compounds																								
Acetone	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	0.097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethylene	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	0.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene (Total)	0.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl t-Butyl Ether (MTBE)	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (Total)	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Acenaphthylene	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Anthracene	0.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Benzo(a)anthracene	0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Benzo(a)pyrene	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05
Benzo(b)fluoranthene	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Benzo(ghi)perylene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Benzo(k)fluoranthene	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Chrysene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Dibenzo(a,h)anthracene	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Fluoranthene	0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Fluorene	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Indeno(1,2,3-cd)pyrene	0.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
1- & 2-Methylnaphthalene	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Naphthalene	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Phenanthrene	7.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Pyrene	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
Metals																								
Antimony	7.5	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-	-	<0.8	-	-
Arsenic	18	2	1	2	2	3	<1	1	<1	2	1	1	2	1	2	5	1	<1	3	-	-	<1	-	-
Barium	390	67.2	95.1	78	55.2	74.7	30.3	49.1	27.9	51.6	44.3	43.3	75.7	124	58.1	77.7	37.9	15.1	125	-	-	33.4	-	-
Beryllium	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-
Boron (Total)	120	11	<5	6	5	6	<5	6	<5	<5	5	<5	5	7	6	7	<5	<5	6	-	-	5	-	-
Boron (Hot Water Soluble)	1.5	**4.94**	0.37	0.99	0.96	0.57	0.2	1.02	0.41	0.57	1.38	1.5	0.27	0.38	0.57	0.13	0.25	<0.10	0.25	-	-	0.12	-	-
Cadmium	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-
Chromium (Total)	160	24	28	18	16	18	16	18	16	27	23	21	15	39	17	16	18	7	19	-	-	9	-	-
Chromium (Hexavalent)	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	-	-
Cobalt	22	5.1	7.3	5.2	4.4	5.1	4.2	4.8	4.4	5	4	4	4.8	8.2	5	6.5	4.4	3	6.7	-	-	4.2	-	-
Copper	180	8.7	16.6	16.7	32.7	35.8	4.3	12.2	3.3	7.7	4.2	4.2	12.2	13.1	22.2	13.9	5.4	8.7	28.1	-	-	10	-	-
Lead	120	17	5	7	14	11	3	6	3	9	5	5	4	7	13	15	3	2	25	-	-	3	-	-
Mercury	1.8	<0.10	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	-	-	<0.10	-	-
Molybdenum	6.9	0.5	<0.5	1.1	0.7	1.1	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	2	<0.5	<0.5	1	-	-	0.5	-	-
Nickel	130	14	19	13	13	16	10	12	11	14	12	11	10	25	12	13	11	6	15	-	-	7	-	-
Selenium	2.4	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	-	-	<0.8	-	-
Silver	25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-
Thallium	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-
Uranium	23	0.63	0.69	0.89	0.99	1.07	<0.50	0.9	<0.50	0.69	0.58	0.54	0.7	0.58	0.66	0.54	<0.50	<0.50	0.56	-	-	0.88	-	-
Vanadium	86	22.3	29.4	24	18.7	23	16.3	26	16	25.3	19.9	19	21.9	39.9	22.2	26.9	21.1	13.8	26.6	-	-	17.6	-	-
Zinc	340	54	36	32	48	37	28	30	36	43	37	34	25	51	41	42	34	11	54	-	-	15	-	-

Notes:
MECP Table 3 SCS (R/P/I-F):

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Medium/Fine-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

AGAT Laboratories

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24P157823
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jun 06, 2024
PAGES (INCLUDING COVER): 35
VERSION*: 1

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

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
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- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

SAMPLING SITE:

ATTENTION TO: Alicia McDonald

SAMPLED BY:SAM YOUNG

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

DATE RECEIVED: 2024-06-03 **DATE REPORTED: 2024-06-06**

		SAMPLE DESCRIPTION:		SP1-S1	SP1-S2	SP1-S3	SP2-S1	SP2-S2	SP2-S3	DUP1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-05-31 14:40	2024-05-31 14:40	2024-05-31 14:40	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50
Parameter	**Unit**	**G / S**	**RDL**	**5909144**	**5909155**	**5909156**	**5909157**	**5909158**	**5909159**	**5909160**
Antimony	µg/g	7.5	0.8	1.4	6.8	<0.8	4.2	2.7	<0.8	3.6
Arsenic	µg/g	18	1	2	8	3	8	6	4	9
Barium	µg/g	390	2.0	157	**433**	333	**573**	383	253	359
Beryllium	µg/g	5	0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.7	<0.5
Boron	µg/g	120	5	5	8	10	12	9	16	9
Cadmium	µg/g	1.2	0.5	1.2	**6.5**	<0.5	**3.4**	**2.4**	0.9	**2.2**
Chromium	µg/g	160	5	34	44	63	68	34	62	38
Cobalt	µg/g	22	0.8	7.1	6.6	10.2	7.4	7.1	12.8	8.2
Copper	µg/g	180	1.0	42.9	**264**	27.7	118	85.6	43.4	96.7
Lead	µg/g	120	1	113	**609**	23	**544**	**283**	102	**244**
Molybdenum	µg/g	6.9	0.5	0.6	**77.2**	1.9	3.9	2.3	4.0	2.3
Nickel	µg/g	130	1	17	29	25	25	17	29	21
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.54	0.50	0.56	0.56	0.55	1.74	0.53
Vanadium	µg/g	86	2.0	33.5	21.4	49.8	28.9	27.3	60.0	32.6
Zinc	µg/g	340	5	188	**1050**	104	**664**	**445**	246	**471**

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

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Certificate of Analysis

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:SAM YOUNG

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

DATE RECEIVED: 2024-06-03

DATE REPORTED: 2024-06-06

		SAMPLE DESCRIPTION:		SP1-S1	SP1-S2	SP1-S3	SP2-S1	SP2-S2	SP2-S3	DUP1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-05-31 14:40	2024-05-31 14:40	2024-05-31 14:40	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50
Parameter	**Unit**	**G / S**	**RDL**	5909144	5909155	5909156	5909157	5909158	5909159	5909160
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	0.05	0.06	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05	0.11	<0.05	0.13	0.07	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	0.14	<0.05	0.16	0.07	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05	0.74	<0.05	0.83	0.64	0.20	0.45
Anthracene	µg/g	0.74	0.05	<0.05	0.20	<0.05	0.19	0.18	0.05	0.13
Fluoranthene	µg/g	0.69	0.05	0.07	**1.33**	<0.05	0.69	**1.19**	0.33	**0.92**
Pyrene	µg/g	78	0.05	0.06	1.10	<0.05	0.57	1.00	0.26	0.78
Benzo(a)anthracene	µg/g	0.63	0.05	<0.05	0.51	<0.05	0.22	0.52	0.12	0.39
Chrysene	µg/g	7.8	0.05	<0.05	0.51	<0.05	0.25	0.52	0.11	0.36
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	0.56	<0.05	0.16	0.53	0.08	0.41
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	0.32	<0.05	0.12	0.36	0.07	0.18
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	**0.31**	<0.05	0.14	**0.51**	0.07	**0.33**
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05	0.19	<0.05	<0.05	0.19	<0.05	0.13
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05	0.20	<0.05	0.06	0.22	<0.05	0.16
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	<0.05
Moisture Content	%		0.1	19.27	37.23	34.60	27.44	10.96	28.13	10.02
Surrogate	**Unit**	**Acceptable Limits**								
Naphthalene-d8	%	50-140		75	100	85	75	90	85	90
Acridine-d9	%	50-140		70	90	110	70	100	70	80
Terphenyl-d14	%	50-140		80	70	80	80	110	95	105

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

5909144-5909160 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopnikolof

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

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Certificate of Analysis

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

SAMPLING SITE:

ATTENTION TO: Alicia McDonald

SAMPLED BY:SAM YOUNG

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

DATE RECEIVED: 2024-06-03 **DATE REPORTED: 2024-06-06**

				SAMPLE DESCRIPTION:	SP1-S1	SP1-S2	SP1-S3	SP2-S1	SP2-S2	SP2-S3	DUP1
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2024-05-31 14:40	2024-05-31 14:40	2024-05-31 14:40	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50
Parameter	**Unit**	**G / S**	**RDL**		5909144	5909155	5909156	5909157	5909158	5909159	5909160
F1 (C6 to C10)	µg/g	65	5		<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5		<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10		88	**305**	26	**722**	<10	56	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		88	305	26	722	<10	56	<10
F3 (C16 to C34)	µg/g	1300	50		206	**2220**	77	**1980**	339	268	283
F3 (C16 to C34) minus PAHs	µg/g		50		206	2210	77	1980	334	267	279
F4 (C34 to C50)	µg/g	5600	50		<50	81	<50	64	72	<50	63
Gravimetric Heavy Hydrocarbons	µg/g	5600	50		NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1		19.27	37.23	34.60	27.44	10.96	28.13	10.02
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	%	50-140			106	111	108	102	101	108	114
Terphenyl	%	60-140			70	81	90	68	79	68	74

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

5909144-5909160 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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

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Certificate of Analysis

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

SAMPLING SITE:

ATTENTION TO: Alicia McDonald

SAMPLED BY:SAM YOUNG

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

DATE RECEIVED: 2024-06-03

DATE REPORTED: 2024-06-06

		SAMPLE DESCRIPTION:		SP1-S1	SP1-S2	SP1-S3	SP2-S1	SP2-S2	SP2-S3	DUP1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-05-31 14:40	2024-05-31 14:40	2024-05-31 14:40	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50
Parameter	Unit	G / S	RDL	5909144	5909155	5909156	5909157	5909158	5909159	5909160
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

SAMPLING SITE:

ATTENTION TO: Alicia McDonald

SAMPLED BY:SAM YOUNG

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

DATE RECEIVED: 2024-06-03 **DATE REPORTED: 2024-06-06**

		SAMPLE DESCRIPTION:		SP1-S1	SP1-S2	SP1-S3	SP2-S1	SP2-S2	SP2-S3	DUP1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-05-31 14:40	2024-05-31 14:40	2024-05-31 14:40	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50	2024-05-31 15:50
Parameter	**Unit**	**G / S**	**RDL**	5909144	5909155	5909156	5909157	5909158	5909159	5909160
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	19.27	37.23	34.60	27.44	10.96	28.13	10.02
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8	% Recovery	50-140		106	111	108	102	101	108	114
4-Bromofluorobenzene	% Recovery	50-140		88	69	95	90	88	99	101

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

5909144-5909160 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopnikolof

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:SAM YOUNG

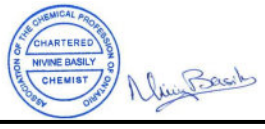
Soil Analysis

RPT Date: Jun 06, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals (Including Hydrides) (Soil)															
Antimony	5908892		<0.8	<0.8	NA	< 0.8	104%	70%	130%	98%	80%	120%	102%	70%	130%
Arsenic	5908892		4	4	NA	< 1	114%	70%	130%	104%	80%	120%	112%	70%	130%
Barium	5908892		192	193	0.5%	< 2.0	103%	70%	130%	103%	80%	120%	110%	70%	130%
Beryllium	5908892		1.0	0.9	NA	< 0.5	109%	70%	130%	120%	80%	120%	122%	70%	130%
Boron	5908892		17	16	NA	< 5	102%	70%	130%	110%	80%	120%	120%	70%	130%
Cadmium	5908892		<0.5	<0.5	NA	< 0.5	114%	70%	130%	105%	80%	120%	97%	70%	130%
Chromium	5908892		73	70	4.2%	< 5	109%	70%	130%	106%	80%	120%	104%	70%	130%
Cobalt	5908892		20.2	19.8	2.0%	< 0.8	118%	70%	130%	113%	80%	120%	113%	70%	130%
Copper	5908892		21.4	18.5	14.5%	< 1.0	103%	70%	130%	107%	80%	120%	101%	70%	130%
Lead	5908892		18	18	0.0%	< 1	104%	70%	130%	111%	80%	120%	106%	70%	130%
Molybdenum	5908892		0.5	0.5	NA	< 0.5	117%	70%	130%	102%	80%	120%	111%	70%	130%
Nickel	5908892		33	33	0.0%	< 1	117%	70%	130%	112%	80%	120%	121%	70%	130%
Selenium	5908892		<0.8	<0.8	NA	< 0.8	77%	70%	130%	107%	80%	120%	111%	70%	130%
Silver	5908892		<0.5	<0.5	NA	< 0.5	109%	70%	130%	99%	80%	120%	99%	70%	130%
Thallium	5908892		<0.5	<0.5	NA	< 0.5	103%	70%	130%	103%	80%	120%	103%	70%	130%
Uranium	5908892		3.00	3.10	3.3%	< 0.50	114%	70%	130%	112%	80%	120%	101%	70%	130%
Vanadium	5908892		86.5	86.0	0.6%	< 2.0	132%	70%	130%	106%	80%	120%	108%	70%	130%
Zinc	5908892		127	122	4.0%	< 5	109%	70%	130%	110%	80%	120%	111%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:SAM YOUNG

Trace Organics Analysis

RPT Date: Jun 06, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	5908880		<5	<5	NA	< 5	90%	60%	140%	91%	60%	140%	94%	60%	140%
F2 (C10 to C16)	5903477		< 10	< 10	NA	< 10	125%	60%	140%	100%	60%	140%	108%	60%	140%
F3 (C16 to C34)	5903477		< 50	< 50	NA	< 50	115%	60%	140%	124%	60%	140%	122%	60%	140%
F4 (C34 to C50)	5903477		< 50	< 50	NA	< 50	67%	60%	140%	103%	60%	140%	80%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5908880		<0.05	<0.05	NA	< 0.05	104%	50%	140%	80%	50%	140%	110%	50%	140%
Vinyl Chloride	5908880		<0.02	<0.02	NA	< 0.02	91%	50%	140%	76%	50%	140%	120%	50%	140%
Bromomethane	5908880		<0.05	<0.05	NA	< 0.05	101%	50%	140%	118%	50%	140%	111%	50%	140%
Trichlorofluoromethane	5908880		<0.05	<0.05	NA	< 0.05	104%	50%	140%	89%	50%	140%	120%	50%	140%
Acetone	5908880		<0.50	<0.50	NA	< 0.50	109%	50%	140%	114%	50%	140%	109%	50%	140%
1,1-Dichloroethylene	5908880		<0.05	<0.05	NA	< 0.05	67%	50%	140%	98%	60%	130%	84%	50%	140%
Methylene Chloride	5908880		<0.05	<0.05	NA	< 0.05	101%	50%	140%	104%	60%	130%	106%	50%	140%
Trans- 1,2-Dichloroethylene	5908880		<0.05	<0.05	NA	< 0.05	74%	50%	140%	102%	60%	130%	84%	50%	140%
Methyl tert-butyl Ether	5908880		<0.05	<0.05	NA	< 0.05	61%	50%	140%	81%	60%	130%	71%	50%	140%
1,1-Dichloroethane	5908880		<0.02	<0.02	NA	< 0.02	84%	50%	140%	102%	60%	130%	84%	50%	140%
Methyl Ethyl Ketone	5908880		<0.50	<0.50	NA	< 0.50	106%	50%	140%	107%	50%	140%	92%	50%	140%
Cis- 1,2-Dichloroethylene	5908880		<0.02	<0.02	NA	< 0.02	79%	50%	140%	91%	60%	130%	77%	50%	140%
Chloroform	5908880		<0.04	<0.04	NA	< 0.04	87%	50%	140%	94%	60%	130%	74%	50%	140%
1,2-Dichloroethane	5908880		<0.03	<0.03	NA	< 0.03	86%	50%	140%	88%	60%	130%	91%	50%	140%
1,1,1-Trichloroethane	5908880		<0.05	<0.05	NA	< 0.05	90%	50%	140%	67%	60%	130%	87%	50%	140%
Carbon Tetrachloride	5908880		<0.05	<0.05	NA	< 0.05	65%	50%	140%	77%	60%	130%	70%	50%	140%
Benzene	5908880		<0.02	<0.02	NA	< 0.02	81%	50%	140%	89%	60%	130%	73%	50%	140%
1,2-Dichloropropane	5908880		<0.03	<0.03	NA	< 0.03	81%	50%	140%	79%	60%	130%	63%	50%	140%
Trichloroethylene	5908880		<0.03	<0.03	NA	< 0.03	81%	50%	140%	80%	60%	130%	82%	50%	140%
Bromodichloromethane	5908880		<0.05	<0.05	NA	< 0.05	75%	50%	140%	72%	60%	130%	84%	50%	140%
Methyl Isobutyl Ketone	5908880		<0.50	<0.50	NA	< 0.50	86%	50%	140%	100%	50%	140%	112%	50%	140%
1,1,2-Trichloroethane	5908880		<0.04	<0.04	NA	< 0.04	102%	50%	140%	92%	60%	130%	113%	50%	140%
Toluene	5908880		<0.05	<0.05	NA	< 0.05	96%	50%	140%	105%	60%	130%	89%	50%	140%
Dibromochloromethane	5908880		<0.05	<0.05	NA	< 0.05	72%	50%	140%	80%	60%	130%	74%	50%	140%
Ethylene Dibromide	5908880		<0.04	<0.04	NA	< 0.04	80%	50%	140%	92%	60%	130%	98%	50%	140%
Tetrachloroethylene	5908880		<0.05	<0.05	NA	< 0.05	89%	50%	140%	99%	60%	130%	70%	50%	140%
1,1,1,2-Tetrachloroethane	5908880		<0.04	<0.04	NA	< 0.04	65%	50%	140%	78%	60%	130%	73%	50%	140%
Chlorobenzene	5908880		<0.05	<0.05	NA	< 0.05	98%	50%	140%	105%	60%	130%	104%	50%	140%
Ethylbenzene	5908880		<0.05	<0.05	NA	< 0.05	88%	50%	140%	102%	60%	130%	93%	50%	140%
m & p-Xylene	5908880		<0.05	<0.05	NA	< 0.05	92%	50%	140%	102%	60%	130%	96%	50%	140%
Bromoform	5908880		<0.05	<0.05	NA	< 0.05	65%	50%	140%	60%	60%	130%	65%	50%	140%
Styrene	5908880		<0.05	<0.05	NA	< 0.05	73%	50%	140%	72%	60%	130%	68%	50%	140%
1,1,2,2-Tetrachloroethane	5908880		<0.05	<0.05	NA	< 0.05	89%	50%	140%	105%	60%	130%	78%	50%	140%
o-Xylene	5908880		<0.05	<0.05	NA	< 0.05	95%	50%	140%	104%	60%	130%	99%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24P157823
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:SAM YOUNG

Trace Organics Analysis (Continued)

RPT Date: Jun 06, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	5908880		<0.05	<0.05	NA	< 0.05	107%	50%	140%	98%	60%	130%	97%	50%	140%
1,4-Dichlorobenzene	5908880		<0.05	<0.05	NA	< 0.05	105%	50%	140%	101%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	5908880		<0.05	<0.05	NA	< 0.05	107%	50%	140%	97%	60%	130%	97%	50%	140%
n-Hexane	5908880		<0.05	<0.05	NA	< 0.05	73%	50%	140%	79%	60%	130%	86%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5895942		<0.05	<0.05	NA	< 0.05	84%	50%	140%	80%	50%	140%	78%	50%	140%
Acenaphthylene	5895942		<0.05	<0.05	NA	< 0.05	92%	50%	140%	75%	50%	140%	105%	50%	140%
Acenaphthene	5895942		<0.05	<0.05	NA	< 0.05	105%	50%	140%	80%	50%	140%	98%	50%	140%
Fluorene	5895942		<0.05	<0.05	NA	< 0.05	117%	50%	140%	80%	50%	140%	103%	50%	140%
Phenanthrene	5895942		<0.05	<0.05	NA	< 0.05	120%	50%	140%	85%	50%	140%	103%	50%	140%
Anthracene	5895942		<0.05	<0.05	NA	< 0.05	116%	50%	140%	78%	50%	140%	95%	50%	140%
Fluoranthene	5895942		<0.05	<0.05	NA	< 0.05	125%	50%	140%	98%	50%	140%	93%	50%	140%
Pyrene	5895942		<0.05	<0.05	NA	< 0.05	119%	50%	140%	93%	50%	140%	93%	50%	140%
Benzo(a)anthracene	5895942		<0.05	<0.05	NA	< 0.05	74%	50%	140%	90%	50%	140%	83%	50%	140%
Chrysene	5895942		<0.05	<0.05	NA	< 0.05	128%	50%	140%	80%	50%	140%	68%	50%	140%
Benzo(b)fluoranthene	5895942		<0.05	<0.05	NA	< 0.05	114%	50%	140%	75%	50%	140%	80%	50%	140%
Benzo(k)fluoranthene	5895942		<0.05	<0.05	NA	< 0.05	123%	50%	140%	103%	50%	140%	110%	50%	140%
Benzo(a)pyrene	5895942		<0.05	<0.05	NA	< 0.05	84%	50%	140%	88%	50%	140%	90%	50%	140%
Indeno(1,2,3-cd)pyrene	5895942		<0.05	<0.05	NA	< 0.05	80%	50%	140%	98%	50%	140%	88%	50%	140%
Dibenz(a,h)anthracene	5895942		<0.05	<0.05	NA	< 0.05	73%	50%	140%	95%	50%	140%	100%	50%	140%
Benzo(g,h,i)perylene	5895942		<0.05	<0.05	NA	< 0.05	100%	50%	140%	103%	50%	140%	83%	50%	140%

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

Certified By: N Popnikolof

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

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Jun 06, 2024

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals (Including Hydrides) (Soil)										
Vanadium		132%	70%	130%	106%	80%	120%	108%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909144	SP1-S1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	06-JUN-2024	06-JUN-2024	NP
Acenaphthylene	06-JUN-2024	06-JUN-2024	NP
Acenaphthene	06-JUN-2024	06-JUN-2024	NP
Fluorene	06-JUN-2024	06-JUN-2024	NP
Phenanthrene	06-JUN-2024	06-JUN-2024	NP
Anthracene	06-JUN-2024	06-JUN-2024	NP
Fluoranthene	06-JUN-2024	06-JUN-2024	NP
Pyrene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)anthracene	06-JUN-2024	06-JUN-2024	NP
Chrysene	06-JUN-2024	06-JUN-2024	NP
Benzo(b)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(k)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)pyrene	06-JUN-2024	06-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	06-JUN-2024	06-JUN-2024	NP
Dibenz(a,h)anthracene	06-JUN-2024	06-JUN-2024	NP
Benzo(g,h,i)perylene	06-JUN-2024	06-JUN-2024	NP
2-and 1-methyl Naphthalene	06-JUN-2024	06-JUN-2024	SYS
Naphthalene-d8	06-JUN-2024	06-JUN-2024	NP

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909144	SP1-S1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acridine-d9	06-JUN-2024	06-JUN-2024	NP
Terphenyl-d14	06-JUN-2024	06-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	NP

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	06-JUN-2024	06-JUN-2024	SYS
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	SS
F3 (C16 to C34) minus PAHs	06-JUN-2024	06-JUN-2024	SYS
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	NP
Terphenyl	06-JUN-2024	06-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909144	SP1-S1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	NP

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909155	SP1-S2	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909155	SP1-S2	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	06-JUN-2024	06-JUN-2024	NP
Acenaphthylene	06-JUN-2024	06-JUN-2024	NP
Acenaphthene	06-JUN-2024	06-JUN-2024	NP
Fluorene	06-JUN-2024	06-JUN-2024	NP
Phenanthrene	06-JUN-2024	06-JUN-2024	NP
Anthracene	06-JUN-2024	06-JUN-2024	NP
Fluoranthene	06-JUN-2024	06-JUN-2024	NP
Pyrene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)anthracene	06-JUN-2024	06-JUN-2024	NP
Chrysene	06-JUN-2024	06-JUN-2024	NP
Benzo(b)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(k)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)pyrene	06-JUN-2024	06-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	06-JUN-2024	06-JUN-2024	NP
Dibenz(a,h)anthracene	06-JUN-2024	06-JUN-2024	NP
Benzo(g,h,i)perylene	06-JUN-2024	06-JUN-2024	NP
2-and 1-methyl Naphthalene	06-JUN-2024	06-JUN-2024	SYS
Naphthalene-d8	06-JUN-2024	06-JUN-2024	NP
Acridine-d9	06-JUN-2024	06-JUN-2024	NP
Terphenyl-d14	06-JUN-2024	06-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	NP

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	SS

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909155	SP1-S2	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F2 (C10 to C16) minus Naphthalene	06-JUN-2024	06-JUN-2024	SYS
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	SS
F3 (C16 to C34) minus PAHs	06-JUN-2024	06-JUN-2024	SYS
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	NP
Terphenyl	06-JUN-2024	06-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909155	SP1-S2	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	NP

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909156	SP1-S3	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909156	SP1-S3	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	06-JUN-2024	06-JUN-2024	NP
Acenaphthylene	06-JUN-2024	06-JUN-2024	NP
Acenaphthene	06-JUN-2024	06-JUN-2024	NP
Fluorene	06-JUN-2024	06-JUN-2024	NP
Phenanthrene	06-JUN-2024	06-JUN-2024	NP
Anthracene	06-JUN-2024	06-JUN-2024	NP
Fluoranthene	06-JUN-2024	06-JUN-2024	NP
Pyrene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)anthracene	06-JUN-2024	06-JUN-2024	NP
Chrysene	06-JUN-2024	06-JUN-2024	NP
Benzo(b)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(k)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)pyrene	06-JUN-2024	06-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	06-JUN-2024	06-JUN-2024	NP
Dibenz(a,h)anthracene	06-JUN-2024	06-JUN-2024	NP
Benzo(g,h,i)perylene	06-JUN-2024	06-JUN-2024	NP
2-and 1-methyl Naphthalene	06-JUN-2024	06-JUN-2024	SYS
Naphthalene-d8	06-JUN-2024	06-JUN-2024	NP
Acridine-d9	06-JUN-2024	06-JUN-2024	NP
Terphenyl-d14	06-JUN-2024	06-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	NP

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	06-JUN-2024	06-JUN-2024	SYS
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	SS
F3 (C16 to C34) minus PAHs	06-JUN-2024	06-JUN-2024	SYS
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	NP
Terphenyl	06-JUN-2024	06-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK

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

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909156	SP1-S3	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909156	SP1-S3	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	NP

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909157	SP2-S1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	06-JUN-2024	06-JUN-2024	NP
Acenaphthylene	06-JUN-2024	06-JUN-2024	NP
Acenaphthene	06-JUN-2024	06-JUN-2024	NP
Fluorene	06-JUN-2024	06-JUN-2024	NP
Phenanthrene	06-JUN-2024	06-JUN-2024	NP
Anthracene	06-JUN-2024	06-JUN-2024	NP
Fluoranthene	06-JUN-2024	06-JUN-2024	NP
Pyrene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)anthracene	06-JUN-2024	06-JUN-2024	NP
Chrysene	06-JUN-2024	06-JUN-2024	NP

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909157	SP2-S1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(b)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(k)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)pyrene	06-JUN-2024	06-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	06-JUN-2024	06-JUN-2024	NP
Dibenz(a,h)anthracene	06-JUN-2024	06-JUN-2024	NP
Benzo(g,h,i)perylene	06-JUN-2024	06-JUN-2024	NP
2-and 1-methyl Naphthalene	06-JUN-2024	06-JUN-2024	SYS
Naphthalene-d8	06-JUN-2024	06-JUN-2024	NP
Acridine-d9	06-JUN-2024	06-JUN-2024	NP
Terphenyl-d14	06-JUN-2024	06-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	NP

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	06-JUN-2024	06-JUN-2024	SYS
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	SS
F3 (C16 to C34) minus PAHs	06-JUN-2024	06-JUN-2024	SYS
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	NP
Terphenyl	06-JUN-2024	06-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909157	SP2-S1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	NP

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909158	SP2-S2	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909158	SP2-S2	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	06-JUN-2024	06-JUN-2024	NP
Acenaphthylene	06-JUN-2024	06-JUN-2024	NP
Acenaphthene	06-JUN-2024	06-JUN-2024	NP
Fluorene	06-JUN-2024	06-JUN-2024	NP
Phenanthrene	06-JUN-2024	06-JUN-2024	NP
Anthracene	06-JUN-2024	06-JUN-2024	NP
Fluoranthene	06-JUN-2024	06-JUN-2024	NP
Pyrene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)anthracene	06-JUN-2024	06-JUN-2024	NP
Chrysene	06-JUN-2024	06-JUN-2024	NP
Benzo(b)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(k)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)pyrene	06-JUN-2024	06-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	06-JUN-2024	06-JUN-2024	NP
Dibenz(a,h)anthracene	06-JUN-2024	06-JUN-2024	NP
Benzo(g,h,i)perylene	06-JUN-2024	06-JUN-2024	NP
2-and 1-methyl Naphthalene	06-JUN-2024	06-JUN-2024	SYS
Naphthalene-d8	06-JUN-2024	06-JUN-2024	NP
Acridine-d9	06-JUN-2024	06-JUN-2024	NP
Terphenyl-d14	06-JUN-2024	06-JUN-2024	NP

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909158	SP2-S2	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Moisture Content	06-JUN-2024	06-JUN-2024	NP

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	06-JUN-2024	06-JUN-2024	SYS
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	SS
F3 (C16 to C34) minus PAHs	06-JUN-2024	06-JUN-2024	SYS
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	NP
Terphenyl	06-JUN-2024	06-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909158	SP2-S2	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	NP

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909159	SP2-S3	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909159	SP2-S3	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	06-JUN-2024	06-JUN-2024	NP
Acenaphthylene	06-JUN-2024	06-JUN-2024	NP
Acenaphthene	06-JUN-2024	06-JUN-2024	NP
Fluorene	06-JUN-2024	06-JUN-2024	NP
Phenanthrene	06-JUN-2024	06-JUN-2024	NP
Anthracene	06-JUN-2024	06-JUN-2024	NP
Fluoranthene	06-JUN-2024	06-JUN-2024	NP
Pyrene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)anthracene	06-JUN-2024	06-JUN-2024	NP
Chrysene	06-JUN-2024	06-JUN-2024	NP
Benzo(b)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(k)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)pyrene	06-JUN-2024	06-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	06-JUN-2024	06-JUN-2024	NP
Dibenz(a,h)anthracene	06-JUN-2024	06-JUN-2024	NP
Benzo(g,h,i)perylene	06-JUN-2024	06-JUN-2024	NP
2-and 1-methyl Naphthalene	06-JUN-2024	06-JUN-2024	SYS
Naphthalene-d8	06-JUN-2024	06-JUN-2024	NP
Acridine-d9	06-JUN-2024	06-JUN-2024	NP
Terphenyl-d14	06-JUN-2024	06-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	NP

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	06-JUN-2024	06-JUN-2024	SYS
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	SS

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909159	SP2-S3	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F3 (C16 to C34) minus PAHs	06-JUN-2024	06-JUN-2024	SYS
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	NP
Terphenyl	06-JUN-2024	06-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909159	SP2-S3	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	NP

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909160	DUP1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	06-JUN-2024	06-JUN-2024	NP

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909160	DUP1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acenaphthylene	06-JUN-2024	06-JUN-2024	NP
Acenaphthene	06-JUN-2024	06-JUN-2024	NP
Fluorene	06-JUN-2024	06-JUN-2024	NP
Phenanthrene	06-JUN-2024	06-JUN-2024	NP
Anthracene	06-JUN-2024	06-JUN-2024	NP
Fluoranthene	06-JUN-2024	06-JUN-2024	NP
Pyrene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)anthracene	06-JUN-2024	06-JUN-2024	NP
Chrysene	06-JUN-2024	06-JUN-2024	NP
Benzo(b)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(k)fluoranthene	06-JUN-2024	06-JUN-2024	NP
Benzo(a)pyrene	06-JUN-2024	06-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	06-JUN-2024	06-JUN-2024	NP
Dibenz(a,h)anthracene	06-JUN-2024	06-JUN-2024	NP
Benzo(g,h,i)perylene	06-JUN-2024	06-JUN-2024	NP
2-and 1-methyl Naphthalene	06-JUN-2024	06-JUN-2024	SYS
Naphthalene-d8	06-JUN-2024	06-JUN-2024	NP
Acridine-d9	06-JUN-2024	06-JUN-2024	NP
Terphenyl-d14	06-JUN-2024	06-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	NP

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	06-JUN-2024	06-JUN-2024	SYS
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	SS
F3 (C16 to C34) minus PAHs	06-JUN-2024	06-JUN-2024	SYS
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	NP
Terphenyl	06-JUN-2024	06-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909160	DUP1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK

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AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5909160	DUP1	Soil	31-MAY-2024	03-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	NP

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:SAM YOUNG

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:SAM YOUNG

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

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

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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:SAM YOUNG

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24P157823

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:SAM YOUNG

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

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
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webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 24P157823

Cooler Quantity: 1

Arrival Temperatures: 13.2 | 12.6 | 12.7

~~Depot~~ Temperatures: 3.9 | 4.7 | 4.4

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: ice

Report Information:

Company: Pinchin Ltd.
Contact: Alicia McDonald
Address: 1456 Centennial Drive, Suite 2, Kingston ON K7L 0K4
Phone: 613.840.6147 Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

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

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

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other (Indicate One)

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

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

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

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

Project Information:

Project: 267991.012
Site Location:
Sampled By: Sam Young
AGAT Quote #: PO:

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

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company: Pinchin Ltd.
Contact: Alicia McDonald
Address: 2360 Meadowpine Blvd. Unit 2, Mississauga ON L5N 6S2
Email: ap@pinchin.com

Legal Sample ☐

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Arochlors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ BiaP ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. SP1-S1	May 31, 202	14:40 AM/PM	2	S				☑	X	☑	☑							
2. SP1-S2	May 31, 202	14:40 AM/PM	2	S				☑	X	☑	☑							
3. SP1-S3	May 31, 202	14:40 AM/PM	2	S				☑	X	☑	☑							
4. SP2-S1	May 31, 202	15:50 AM/PM	2	S				☑	X	☑	☑							
5. SP2-S2	May 31, 202	15:50 AM/PM	2	S				☑	X	☑	☑							
6. SP2-S3	May 31, 202	15:50 AM/PM	2	S				☑	X	☑	☑							
7. DUP1	May 31, 202	15:50 AM/PM	2	S				☑	X	☑	☑							
8.		AM/PM																
9.		AM/PM																
10.		AM/PM																
11.		AM/PM																

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Samantha Young Sam Young	June 3, 2024		Kary Jones	June 3/24	16:30
	June 4/24	16:00		Jun 5	8:40

Page 1 of 1

N°:

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

Document ID: DOC-FM-19111-020 Date Issued: Jan 19, 2024

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z158388
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor
DATE REPORTED: Jun 07, 2024
PAGES (INCLUDING COVER): 50
VERSION*: 2

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

Notes

VERSION 2:V2 issued 2024-06-07. Complete report. Supersedes previous version. (LB)
V1 issued 2024-06-07. Partial report with Metals & Inorganics only. (LB)

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
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- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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

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AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

SAMPLE DESCRIPTION:				EX2-SWS1	DUP 3	EX2-FS1	EX2-SSWS2	EX2-NWWS4	EX2-WCWS3	EX2-NEWS6	EX2-FS3
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00
Parameter	Unit	G / S	RDL	5908892	5908899	5908923	5908931	5908932	5908933	5908934	5908935
Antimony	µg/g		0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g		1	4	5	3	4	4	4	6	3
Barium	µg/g		2.0	192	170	84.0	163	80.4	188	152	58.8
Beryllium	µg/g		0.5	1.0	0.8	<0.5	0.7	<0.5	0.8	0.7	<0.5
Boron	µg/g		5	17	23	<5	7	7	15	20	7
Boron (Hot Water Soluble)	µg/g		0.10	2.99	8.15	0.20	1.39	1.21	2.61	6.21	0.82
Cadmium	µg/g		0.5	<0.5	0.5	<0.5	<0.5	<0.5	1.0	0.8	<0.5
Chromium	µg/g		5	73	62	19	55	31	57	52	26
Cobalt	µg/g		0.8	20.2	14.1	4.5	14.0	8.6	11.0	11.1	7.4
Copper	µg/g		1.0	21.4	25.5	8.9	17.4	8.1	67.0	43.3	16.8
Lead	µg/g		1	18	57	5	7	4	33	93	5
Molybdenum	µg/g		0.5	0.5	0.5	<0.5	<0.5	<0.5	0.6	0.8	<0.5
Nickel	µg/g		1	33	30	8	26	18	29	26	14
Selenium	µg/g		0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g		0.50	3.00	2.69	0.64	1.58	0.74	3.45	2.09	0.68
Vanadium	µg/g		2.0	86.5	63.4	30.3	62.7	36.0	63.5	54.5	43.2
Zinc	µg/g		5	127	153	27	56	34	163	178	33
Chromium, Hexavalent	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g		0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g		0.10	<0.10	0.11	<0.10	<0.10	<0.10	0.10	0.11	<0.10
Electrical Conductivity (2:1)	mS/cm		0.005	0.804	0.593	0.634	1.22	0.788	0.562	0.471	0.995
Sodium Adsorption Ratio (2:1) (Calc.)	N/A		N/A	7.97	5.42	7.93	11.9	6.64	4.56	4.49	9.17
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.15	7.15	8.16	7.26	8.44	7.34	7.13	6.33

Certified By:



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

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Certificate of Analysis

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

				SAMPLE DESCRIPTION:	EX2-NCWS5	EX2-FS4	EX2-FS2
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00
Parameter	Unit	G / S	RDL		5908936	5908937	5908949
Antimony	µg/g		0.8		<0.8	<0.8	<0.8
Arsenic	µg/g		1		3	4	4
Barium	µg/g		2.0		36.9	150	54.9
Beryllium	µg/g		0.5		<0.5	0.8	<0.5
Boron	µg/g		5		<5	10	<5
Boron (Hot Water Soluble)	µg/g		0.10		1.42	1.56	0.22
Cadmium	µg/g		0.5		<0.5	<0.5	<0.5
Chromium	µg/g		5		19	58	20
Cobalt	µg/g		0.8		6.0	12.4	6.1
Copper	µg/g		1.0		4.7	21.1	15.7
Lead	µg/g		1		4	7	4
Molybdenum	µg/g		0.5		<0.5	<0.5	<0.5
Nickel	µg/g		1		11	27	12
Selenium	µg/g		0.8		<0.8	<0.8	<0.8
Silver	µg/g		0.5		<0.5	<0.5	<0.5
Thallium	µg/g		0.5		<0.5	<0.5	<0.5
Uranium	µg/g		0.50		0.74	0.97	0.57
Vanadium	µg/g		2.0		23.0	65.6	39.3
Zinc	µg/g		5		26	52	30
Chromium, Hexavalent	µg/g		0.2		<0.2	<0.2	<0.2
Cyanide, WAD	µg/g		0.040		<0.040	<0.040	<0.040
Mercury	µg/g		0.10		<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm		0.005		0.495	0.873	0.523
Sodium Adsorption Ratio (2:1) (Calc.)	N/A		N/A		6.75	7.88	6.47
pH, 2:1 CaCl2 Extraction	pH Units		NA		6.12	7.93	6.88

Certified By:



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

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

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

5908892-5908949 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

		SAMPLE DESCRIPTION:		DUP 3	EX2-SSWS2	EX2-NWWS4	EX2-WCWS3	EX2-NEWS6	EX2-FS3	EX2-NCWS5	EX2-FS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00	2024-06-04 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5908899**	**5908931**	**5908932**	**5908933**	**5908934**	**5908935**	**5908936**	**5908937**
Benzene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10	<10	<10	25	17	<10	<10
F3 (C16 to C34)	µg/g		50	138	<50	<50	106	1460	734	<50	<50
F4 (C34 to C50)	µg/g		50	<50	<50	<50	<50	70	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	29.1	15.9	15.3	17.3	29.7	22.2	16.9	21.5
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	60-140		86	89	68	73	102	108	75	83
Terphenyl	%	60-140		78	75	94	80	83	76	74	66

Certified By:

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

DATE RECEIVED: 2024-06-05

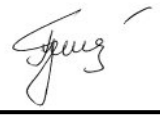
DATE REPORTED: 2024-06-07

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

5908899-5908937 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

		SAMPLE DESCRIPTION:		EX1-SEW3	EX1-SW4	DUP 2	EX1-NEW1	EX1-ECW2	EX1-FS1	EX1-FS2	EX1-FS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5908859**	**5908871**	**5908872**	**5908873**	**5908874**	**5908875**	**5908876**	**5908877**
F1 (C6 to C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10	<10	25	267	<10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	114	108	137	254	<50	<50	<50
F4 (C34 to C50)	µg/g		50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	22.6	24.8	18.2	31.7	30.1	18.4	30.6	32.3
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	%	50-140		104	98	115	110	100	108	98	108
Terphenyl	%	60-140		76	98	75	74	71	75	71	100

		SAMPLE DESCRIPTION:		EX1-FS4	EX1-SWC5	EX1-NWW4
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5908878**	**5908879**	**5908880**
F1 (C6 to C10)	µg/g		5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	86	<10
F3 (C16 to C34)	µg/g		50	<50	1660	<50
F4 (C34 to C50)	µg/g		50	<50	115	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA
Moisture Content	%		0.1	27.8	20.0	23.6
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	%	50-140		117	112	98
Terphenyl	%	60-140		74	64	95

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PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

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SAMPLED BY:

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

DATE RECEIVED: 2024-06-05 **DATE REPORTED: 2024-06-07**

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

5908859-5908880 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

SAMPLE DESCRIPTION:				EX1-SEW3	EX1-SW4	DUP 2	EX1-NEW1	EX1-ECW2	EX1-FS1	EX1-FS2	EX1-FS3
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00
Parameter	Unit	G / S	RDL	5908859	5908871	5908872	5908873	5908874	5908875	5908876	5908877
Dichlorodifluoromethane	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

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CLIENT NAME: PINCHIN LTD.

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

		SAMPLE DESCRIPTION:		EX1-SEW3	EX1-SW4	DUP 2	EX1-NEW1	EX1-ECW2	EX1-FS1	EX1-FS2	EX1-FS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5908859**	**5908871**	**5908872**	**5908873**	**5908874**	**5908875**	**5908876**	**5908877**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	22.6	24.8	18.2	31.7	30.1	18.4	30.6	32.3
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		104	98	115	110	100	108	98	108
4-Bromofluorobenzene	% Recovery	50-140		102	97	104	106	92	102	97	103

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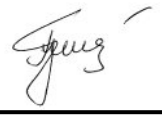
O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

SAMPLE DESCRIPTION:				EX1-FS4	EX1-SWC5	EX1-NWW4
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00
Parameter	Unit	G / S	RDL	5908878	5908879	5908880
Dichlorodifluoromethane	µg/g		0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g		0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05	<0.05	<0.05
Acetone	ug/g		0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02	<0.02	<0.02
Chloroform	ug/g		0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05	<0.05	<0.05
Benzene	ug/g		0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04	<0.04	<0.04
Toluene	ug/g		0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g		0.05	<0.05	<0.05	<0.05

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-07

				SAMPLE DESCRIPTION:	EX1-FS4	EX1-SWC5	EX1-NWW4
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2024-06-03 12:00	2024-06-03 12:00	2024-06-03 12:00
Parameter	**Unit**	**G / S**	**RDL**		**5908878**	**5908879**	**5908880**
m & p-Xylene	ug/g		0.05		<0.05	<0.05	<0.05
Bromoform	ug/g		0.05		<0.05	<0.05	<0.05
Styrene	ug/g		0.05		<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05		<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05		<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05		<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05		<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05		<0.05	<0.05	<0.05
Xylenes (Total)	ug/g		0.05		<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g		0.05		<0.05	<0.05	<0.05
n-Hexane	µg/g		0.05		<0.05	<0.05	<0.05
Moisture Content	%		0.1		27.8	20.0	23.6
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	50-140			117	112	98
4-Bromofluorobenzene	% Recovery	50-140			110	103	97

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

5908859-5908880 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Jun 07, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	5908892	5908892	<0.8	<0.8	NA	< 0.8	104%	70%	130%	98%	80%	120%	102%	70%	130%
Arsenic	5908892	5908892	4	4	NA	< 1	114%	70%	130%	104%	80%	120%	112%	70%	130%
Barium	5908892	5908892	192	193	0.5%	< 2.0	103%	70%	130%	103%	80%	120%	110%	70%	130%
Beryllium	5908892	5908892	1.0	0.9	NA	< 0.5	109%	70%	130%	120%	80%	120%	122%	70%	130%
Boron	5908892	5908892	17	16	NA	< 5	102%	70%	130%	110%	80%	120%	120%	70%	130%
Boron (Hot Water Soluble)	5908892	5908892	2.99	2.87	4.1%	< 0.10	102%	60%	140%	97%	70%	130%	NA	60%	140%
Cadmium	5908892	5908892	<0.5	<0.5	NA	< 0.5	114%	70%	130%	105%	80%	120%	97%	70%	130%
Chromium	5908892	5908892	73	70	4.2%	< 5	109%	70%	130%	106%	80%	120%	104%	70%	130%
Cobalt	5908892	5908892	20.2	19.8	2.0%	< 0.8	118%	70%	130%	113%	80%	120%	113%	70%	130%
Copper	5908892	5908892	21.4	18.5	14.5%	< 1.0	103%	70%	130%	107%	80%	120%	101%	70%	130%
Lead	5908892	5908892	18	18	0.0%	< 1	104%	70%	130%	111%	80%	120%	106%	70%	130%
Molybdenum	5908892	5908892	0.5	0.5	NA	< 0.5	117%	70%	130%	102%	80%	120%	111%	70%	130%
Nickel	5908892	5908892	33	33	0.0%	< 1	117%	70%	130%	112%	80%	120%	121%	70%	130%
Selenium	5908892	5908892	<0.8	<0.8	NA	< 0.8	77%	70%	130%	107%	80%	120%	111%	70%	130%
Silver	5908892	5908892	<0.5	<0.5	NA	< 0.5	109%	70%	130%	99%	80%	120%	99%	70%	130%
Thallium	5908892	5908892	<0.5	<0.5	NA	< 0.5	103%	70%	130%	103%	80%	120%	103%	70%	130%
Uranium	5908892	5908892	3.00	3.10	3.3%	< 0.50	114%	70%	130%	112%	80%	120%	101%	70%	130%
Vanadium	5908892	5908892	86.5	86.0	0.6%	< 2.0	132%	70%	130%	106%	80%	120%	108%	70%	130%
Zinc	5908892	5908892	127	122	4.0%	< 5	109%	70%	130%	110%	80%	120%	111%	70%	130%
Chromium, Hexavalent	5909378		<0.2	<0.2	NA	< 0.2	117%	70%	130%	84%	80%	120%	72%	70%	130%
Cyanide, WAD	5908935	5908935	<0.040	<0.040	NA	< 0.040	90%	70%	130%	96%	80%	120%	93%	70%	130%
Mercury	5908892	5908892	<0.10	<0.10	NA	< 0.10	102%	70%	130%	99%	80%	120%	98%	70%	130%
Electrical Conductivity (2:1)	5908892	5908892	0.804	0.788	2.0%	< 0.005	96%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	5908892	5908892	7.97	7.94	0.4%	NA									
pH, 2:1 CaCl2 Extraction	5908935	5908935	6.33	6.73	6.1%	NA	98%	80%	120%						

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z158388
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 07, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F1 (C6 to C10)	5908880	5908880	<5	<5	NA	< 5	90%	60%	140%	91%	60%	140%	94%	60%	140%
F2 (C10 to C16)	5895830		<10	<10	NA	< 10	103%	60%	140%	111%	60%	140%	118%	60%	140%
F3 (C16 to C34)	5895830		<50	<50	NA	< 50	106%	60%	140%	100%	60%	140%	118%	60%	140%
F4 (C34 to C50)	5895830		<50	<50	NA	< 50	87%	60%	140%	111%	60%	140%	98%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5908880	5908880	<0.05	<0.05	NA	< 0.05	104%	50%	140%	80%	50%	140%	110%	50%	140%
Vinyl Chloride	5908880	5908880	<0.02	<0.02	NA	< 0.02	91%	50%	140%	76%	50%	140%	120%	50%	140%
Bromomethane	5908880	5908880	<0.05	<0.05	NA	< 0.05	101%	50%	140%	118%	50%	140%	111%	50%	140%
Trichlorofluoromethane	5908880	5908880	<0.05	<0.05	NA	< 0.05	104%	50%	140%	89%	50%	140%	120%	50%	140%
Acetone	5908880	5908880	<0.50	<0.50	NA	< 0.50	109%	50%	140%	114%	50%	140%	109%	50%	140%
1,1-Dichloroethylene	5908880	5908880	<0.05	<0.05	NA	< 0.05	67%	50%	140%	98%	60%	130%	84%	50%	140%
Methylene Chloride	5908880	5908880	<0.05	<0.05	NA	< 0.05	101%	50%	140%	104%	60%	130%	106%	50%	140%
Trans- 1,2-Dichloroethylene	5908880	5908880	<0.05	<0.05	NA	< 0.05	74%	50%	140%	102%	60%	130%	84%	50%	140%
Methyl tert-butyl Ether	5908880	5908880	<0.05	<0.05	NA	< 0.05	61%	50%	140%	81%	60%	130%	71%	50%	140%
1,1-Dichloroethane	5908880	5908880	<0.02	<0.02	NA	< 0.02	84%	50%	140%	102%	60%	130%	84%	50%	140%
Methyl Ethyl Ketone	5908880	5908880	<0.50	<0.50	NA	< 0.50	106%	50%	140%	107%	50%	140%	92%	50%	140%
Cis- 1,2-Dichloroethylene	5908880	5908880	<0.02	<0.02	NA	< 0.02	79%	50%	140%	91%	60%	130%	77%	50%	140%
Chloroform	5908880	5908880	<0.04	<0.04	NA	< 0.04	87%	50%	140%	94%	60%	130%	74%	50%	140%
1,2-Dichloroethane	5908880	5908880	<0.03	<0.03	NA	< 0.03	86%	50%	140%	88%	60%	130%	91%	50%	140%
1,1,1-Trichloroethane	5908880	5908880	<0.05	<0.05	NA	< 0.05	90%	50%	140%	67%	60%	130%	87%	50%	140%
Carbon Tetrachloride	5908880	5908880	<0.05	<0.05	NA	< 0.05	65%	50%	140%	77%	60%	130%	70%	50%	140%
Benzene	5908880	5908880	<0.02	<0.02	NA	< 0.02	81%	50%	140%	89%	60%	130%	73%	50%	140%
1,2-Dichloropropane	5908880	5908880	<0.03	<0.03	NA	< 0.03	81%	50%	140%	79%	60%	130%	63%	50%	140%
Trichloroethylene	5908880	5908880	<0.03	<0.03	NA	< 0.03	81%	50%	140%	80%	60%	130%	82%	50%	140%
Bromodichloromethane	5908880	5908880	<0.05	<0.05	NA	< 0.05	75%	50%	140%	72%	60%	130%	84%	50%	140%
Methyl Isobutyl Ketone	5908880	5908880	<0.50	<0.50	NA	< 0.50	86%	50%	140%	100%	50%	140%	112%	50%	140%
1,1,2-Trichloroethane	5908880	5908880	<0.04	<0.04	NA	< 0.04	102%	50%	140%	92%	60%	130%	113%	50%	140%
Toluene	5908880	5908880	<0.05	<0.05	NA	< 0.05	96%	50%	140%	105%	60%	130%	89%	50%	140%
Dibromochloromethane	5908880	5908880	<0.05	<0.05	NA	< 0.05	72%	50%	140%	80%	60%	130%	74%	50%	140%
Ethylene Dibromide	5908880	5908880	<0.04	<0.04	NA	< 0.04	80%	50%	140%	92%	60%	130%	98%	50%	140%
Tetrachloroethylene	5908880	5908880	<0.05	<0.05	NA	< 0.05	89%	50%	140%	99%	60%	130%	70%	50%	140%
1,1,1,2-Tetrachloroethane	5908880	5908880	<0.04	<0.04	NA	< 0.04	65%	50%	140%	78%	60%	130%	73%	50%	140%
Chlorobenzene	5908880	5908880	<0.05	<0.05	NA	< 0.05	98%	50%	140%	105%	60%	130%	104%	50%	140%
Ethylbenzene	5908880	5908880	<0.05	<0.05	NA	< 0.05	88%	50%	140%	102%	60%	130%	93%	50%	140%
m & p-Xylene	5908880	5908880	<0.05	<0.05	NA	< 0.05	92%	50%	140%	102%	60%	130%	96%	50%	140%
Bromoform	5908880	5908880	<0.05	<0.05	NA	< 0.05	65%	50%	140%	60%	60%	130%	65%	50%	140%
Styrene	5908880	5908880	<0.05	<0.05	NA	< 0.05	73%	50%	140%	72%	60%	130%	68%	50%	140%
1,1,2,2-Tetrachloroethane	5908880	5908880	<0.05	<0.05	NA	< 0.05	89%	50%	140%	105%	60%	130%	78%	50%	140%
o-Xylene	5908880	5908880	<0.05	<0.05	NA	< 0.05	95%	50%	140%	104%	60%	130%	99%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 07, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	5908880	5908880	<0.05	<0.05	NA	< 0.05	107%	50%	140%	98%	60%	130%	97%	50%	140%
1,4-Dichlorobenzene	5908880	5908880	<0.05	<0.05	NA	< 0.05	105%	50%	140%	101%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	5908880	5908880	<0.05	<0.05	NA	< 0.05	107%	50%	140%	97%	60%	130%	97%	50%	140%
n-Hexane	5908880	5908880	<0.05	<0.05	NA	< 0.05	73%	50%	140%	79%	60%	130%	86%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F2 (C10 to C16)	5898672		11	12	NA	< 10	108%	60%	140%	107%	60%	140%	98%	60%	140%
F3 (C16 to C34)	5898672		470	584	21.6%	< 50	124%	60%	140%	100%	60%	140%	117%	60%	140%
F4 (C34 to C50)	5898672		702	726	3.4%	< 50	76%	60%	140%	93%	60%	140%	100%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5906152		<0.02	<0.02	NA	< 0.02	83%	60%	140%	83%	60%	140%	73%	60%	140%
Toluene	5906152		<0.05	<0.05	NA	< 0.05	79%	60%	140%	91%	60%	140%	99%	60%	140%
Ethylbenzene	5906152		<0.05	<0.05	NA	< 0.05	80%	60%	140%	92%	60%	140%	87%	60%	140%
m & p-Xylene	5906152		<0.05	<0.05	NA	< 0.05	89%	60%	140%	71%	60%	140%	82%	60%	140%
o-Xylene	5906152		<0.05	<0.05	NA	< 0.05	75%	60%	140%	85%	60%	140%	79%	60%	140%
F1 (C6 to C10)	5906152		<5	<5	NA	< 5	91%	60%	140%	88%	60%	140%	99%	60%	140%
F2 (C10 to C16)	5908899	5908899	< 10	< 10	NA	< 10	103%	60%	140%	111%	60%	140%	118%	60%	140%
F3 (C16 to C34)	5908899	5908899	138	145	NA	< 50	106%	60%	140%	100%	60%	140%	118%	60%	140%
F4 (C34 to C50)	5908899	5908899	< 50	< 50	NA	< 50	87%	60%	140%	111%	60%	140%	118%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
F2 (C10 to C16)	5908933	5908933	< 10	< 10	NA	< 10	103%	60%	140%	111%	60%	140%	118%	60%	140%
F3 (C16 to C34)	5908933	5908933	106	97	NA	< 50	106%	60%	140%	100%	60%	140%	118%	60%	140%
F4 (C34 to C50)	5908933	5908933	< 50	< 50	NA	< 50	87%	60%	140%	111%	60%	140%	98%	60%	140%

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

Certified By:

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Jun 07, 2024		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)										
Vanadium	5908892	132%	70%	130%	106%	80%	120%	108%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908859	EX1-SEW3	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	05-JUN-2024	05-JUN-2024	CK
F1 (C6 to C10) minus BTEX	05-JUN-2024	05-JUN-2024	SYS
Toluene-d8	05-JUN-2024	05-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	05-JUN-2024	05-JUN-2024	CK
Vinyl Chloride	05-JUN-2024	05-JUN-2024	CK
Bromomethane	05-JUN-2024	05-JUN-2024	CK
Trichlorofluoromethane	05-JUN-2024	05-JUN-2024	CK
Acetone	05-JUN-2024	05-JUN-2024	CK
1,1-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Methylene Chloride	05-JUN-2024	05-JUN-2024	CK
Trans- 1,2-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Methyl tert-butyl Ether	05-JUN-2024	05-JUN-2024	CK
1,1-Dichloroethane	05-JUN-2024	05-JUN-2024	CK
Methyl Ethyl Ketone	05-JUN-2024	05-JUN-2024	CK
Cis- 1,2-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Chloroform	05-JUN-2024	05-JUN-2024	CK
1,2-Dichloroethane	05-JUN-2024	05-JUN-2024	CK
1,1,1-Trichloroethane	05-JUN-2024	05-JUN-2024	CK
Carbon Tetrachloride	05-JUN-2024	05-JUN-2024	CK
Benzene	05-JUN-2024	05-JUN-2024	CK
1,2-Dichloropropane	05-JUN-2024	05-JUN-2024	CK
Trichloroethylene	05-JUN-2024	05-JUN-2024	CK
Bromodichloromethane	05-JUN-2024	05-JUN-2024	CK
Methyl Isobutyl Ketone	05-JUN-2024	05-JUN-2024	CK
1,1,2-Trichloroethane	05-JUN-2024	05-JUN-2024	CK
Toluene	05-JUN-2024	05-JUN-2024	CK
Dibromochloromethane	05-JUN-2024	05-JUN-2024	CK
Ethylene Dibromide	05-JUN-2024	05-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	05-JUN-2024	05-JUN-2024	CK

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

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908859	EX1-SEW3	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	05-JUN-2024	05-JUN-2024	CK
Ethylbenzene	05-JUN-2024	05-JUN-2024	CK
m & p-Xylene	05-JUN-2024	05-JUN-2024	CK
Bromoform	05-JUN-2024	05-JUN-2024	CK
Styrene	05-JUN-2024	05-JUN-2024	CK
1,1,2,2-Tetrachloroethane	05-JUN-2024	05-JUN-2024	CK
o-Xylene	05-JUN-2024	05-JUN-2024	CK
1,3-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
1,4-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
1,2-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
Xylenes (Total)	05-JUN-2024	05-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	05-JUN-2024	05-JUN-2024	SYS
n-Hexane	05-JUN-2024	05-JUN-2024	CK
Toluene-d8	05-JUN-2024	05-JUN-2024	CK
4-Bromofluorobenzene	05-JUN-2024	05-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908871	EX1-SW4	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	05-JUN-2024	05-JUN-2024	CK
F1 (C6 to C10) minus BTEX	05-JUN-2024	05-JUN-2024	SYS
Toluene-d8	05-JUN-2024	05-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	05-JUN-2024	05-JUN-2024	CK
Vinyl Chloride	05-JUN-2024	05-JUN-2024	CK
Bromomethane	05-JUN-2024	05-JUN-2024	CK
Trichlorofluoromethane	05-JUN-2024	05-JUN-2024	CK
Acetone	05-JUN-2024	05-JUN-2024	CK
1,1-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908871	EX1-SW4	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	05-JUN-2024	05-JUN-2024	CK
Trans- 1,2-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Methyl tert-butyl Ether	05-JUN-2024	05-JUN-2024	CK
1,1-Dichloroethane	05-JUN-2024	05-JUN-2024	CK
Methyl Ethyl Ketone	05-JUN-2024	05-JUN-2024	CK
Cis- 1,2-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Chloroform	05-JUN-2024	05-JUN-2024	CK
1,2-Dichloroethane	05-JUN-2024	05-JUN-2024	CK
1,1,1-Trichloroethane	05-JUN-2024	05-JUN-2024	CK
Carbon Tetrachloride	05-JUN-2024	05-JUN-2024	CK
Benzene	05-JUN-2024	05-JUN-2024	CK
1,2-Dichloropropane	05-JUN-2024	05-JUN-2024	CK
Trichloroethylene	05-JUN-2024	05-JUN-2024	CK
Bromodichloromethane	05-JUN-2024	05-JUN-2024	CK
Methyl Isobutyl Ketone	05-JUN-2024	05-JUN-2024	CK
1,1,2-Trichloroethane	05-JUN-2024	05-JUN-2024	CK
Toluene	05-JUN-2024	05-JUN-2024	CK
Dibromochloromethane	05-JUN-2024	05-JUN-2024	CK
Ethylene Dibromide	05-JUN-2024	05-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	05-JUN-2024	05-JUN-2024	CK
Chlorobenzene	05-JUN-2024	05-JUN-2024	CK
Ethylbenzene	05-JUN-2024	05-JUN-2024	CK
m & p-Xylene	05-JUN-2024	05-JUN-2024	CK
Bromoform	05-JUN-2024	05-JUN-2024	CK
Styrene	05-JUN-2024	05-JUN-2024	CK
1,1,2,2-Tetrachloroethane	05-JUN-2024	05-JUN-2024	CK
o-Xylene	05-JUN-2024	05-JUN-2024	CK
1,3-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
1,4-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
1,2-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
Xylenes (Total)	05-JUN-2024	05-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	05-JUN-2024	05-JUN-2024	SYS
n-Hexane	05-JUN-2024	05-JUN-2024	CK
Toluene-d8	05-JUN-2024	05-JUN-2024	CK
4-Bromofluorobenzene	05-JUN-2024	05-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908872	DUP 2	Soil	03-JUN-2024	05-JUN-2024

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PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908872	DUP 2	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	05-JUN-2024	05-JUN-2024	CK
F1 (C6 to C10) minus BTEX	05-JUN-2024	05-JUN-2024	SYS
Toluene-d8	05-JUN-2024	05-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	05-JUN-2024	05-JUN-2024	CK
Vinyl Chloride	05-JUN-2024	05-JUN-2024	CK
Bromomethane	05-JUN-2024	05-JUN-2024	CK
Trichlorofluoromethane	05-JUN-2024	05-JUN-2024	CK
Acetone	05-JUN-2024	05-JUN-2024	CK
1,1-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Methylene Chloride	05-JUN-2024	05-JUN-2024	CK
Trans- 1,2-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Methyl tert-butyl Ether	05-JUN-2024	05-JUN-2024	CK
1,1-Dichloroethane	05-JUN-2024	05-JUN-2024	CK
Methyl Ethyl Ketone	05-JUN-2024	05-JUN-2024	CK
Cis- 1,2-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Chloroform	05-JUN-2024	05-JUN-2024	CK
1,2-Dichloroethane	05-JUN-2024	05-JUN-2024	CK
1,1,1-Trichloroethane	05-JUN-2024	05-JUN-2024	CK
Carbon Tetrachloride	05-JUN-2024	05-JUN-2024	CK
Benzene	05-JUN-2024	05-JUN-2024	CK
1,2-Dichloropropane	05-JUN-2024	05-JUN-2024	CK
Trichloroethylene	05-JUN-2024	05-JUN-2024	CK
Bromodichloromethane	05-JUN-2024	05-JUN-2024	CK
Methyl Isobutyl Ketone	05-JUN-2024	05-JUN-2024	CK
1,1,2-Trichloroethane	05-JUN-2024	05-JUN-2024	CK
Toluene	05-JUN-2024	05-JUN-2024	CK
Dibromochloromethane	05-JUN-2024	05-JUN-2024	CK
Ethylene Dibromide	05-JUN-2024	05-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	05-JUN-2024	05-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908872	DUP 2	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	05-JUN-2024	05-JUN-2024	CK
Ethylbenzene	05-JUN-2024	05-JUN-2024	CK
m & p-Xylene	05-JUN-2024	05-JUN-2024	CK
Bromoform	05-JUN-2024	05-JUN-2024	CK
Styrene	05-JUN-2024	05-JUN-2024	CK
1,1,2,2-Tetrachloroethane	05-JUN-2024	05-JUN-2024	CK
o-Xylene	05-JUN-2024	05-JUN-2024	CK
1,3-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
1,4-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
1,2-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
Xylenes (Total)	05-JUN-2024	05-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	05-JUN-2024	05-JUN-2024	SYS
n-Hexane	05-JUN-2024	05-JUN-2024	CK
Toluene-d8	05-JUN-2024	05-JUN-2024	CK
4-Bromofluorobenzene	05-JUN-2024	05-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908873	EX1-NEW1	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	05-JUN-2024	05-JUN-2024	CK
F1 (C6 to C10) minus BTEX	05-JUN-2024	05-JUN-2024	SYS
Toluene-d8	05-JUN-2024	05-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	05-JUN-2024	05-JUN-2024	CK
Vinyl Chloride	05-JUN-2024	05-JUN-2024	CK
Bromomethane	05-JUN-2024	05-JUN-2024	CK
Trichlorofluoromethane	05-JUN-2024	05-JUN-2024	CK
Acetone	05-JUN-2024	05-JUN-2024	CK
1,1-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908873	EX1-NEW1	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	05-JUN-2024	05-JUN-2024	CK
Trans- 1,2-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Methyl tert-butyl Ether	05-JUN-2024	05-JUN-2024	CK
1,1-Dichloroethane	05-JUN-2024	05-JUN-2024	CK
Methyl Ethyl Ketone	05-JUN-2024	05-JUN-2024	CK
Cis- 1,2-Dichloroethylene	05-JUN-2024	05-JUN-2024	CK
Chloroform	05-JUN-2024	05-JUN-2024	CK
1,2-Dichloroethane	05-JUN-2024	05-JUN-2024	CK
1,1,1-Trichloroethane	05-JUN-2024	05-JUN-2024	CK
Carbon Tetrachloride	05-JUN-2024	05-JUN-2024	CK
Benzene	05-JUN-2024	05-JUN-2024	CK
1,2-Dichloropropane	05-JUN-2024	05-JUN-2024	CK
Trichloroethylene	05-JUN-2024	05-JUN-2024	CK
Bromodichloromethane	05-JUN-2024	05-JUN-2024	CK
Methyl Isobutyl Ketone	05-JUN-2024	05-JUN-2024	CK
1,1,2-Trichloroethane	05-JUN-2024	05-JUN-2024	CK
Toluene	05-JUN-2024	05-JUN-2024	CK
Dibromochloromethane	05-JUN-2024	05-JUN-2024	CK
Ethylene Dibromide	05-JUN-2024	05-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	05-JUN-2024	05-JUN-2024	CK
Chlorobenzene	05-JUN-2024	05-JUN-2024	CK
Ethylbenzene	05-JUN-2024	05-JUN-2024	CK
m & p-Xylene	05-JUN-2024	05-JUN-2024	CK
Bromoform	05-JUN-2024	05-JUN-2024	CK
Styrene	05-JUN-2024	05-JUN-2024	CK
1,1,2,2-Tetrachloroethane	05-JUN-2024	05-JUN-2024	CK
o-Xylene	05-JUN-2024	05-JUN-2024	CK
1,3-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
1,4-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
1,2-Dichlorobenzene	05-JUN-2024	05-JUN-2024	CK
Xylenes (Total)	05-JUN-2024	05-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	05-JUN-2024	05-JUN-2024	SYS
n-Hexane	05-JUN-2024	05-JUN-2024	CK
Toluene-d8	05-JUN-2024	05-JUN-2024	CK
4-Bromofluorobenzene	05-JUN-2024	05-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908874	EX1-ECW2	Soil	03-JUN-2024	05-JUN-2024

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

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908874	EX1-ECW2	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908874	EX1-ECW2	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908875	EX1-FS1	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908875	EX1-FS1	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908876	EX1-FS2	Soil	03-JUN-2024	05-JUN-2024

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908876	EX1-FS2	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908876	EX1-FS2	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908877	EX1-FS3	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908877	EX1-FS3	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908878	EX1-FS4	Soil	03-JUN-2024	05-JUN-2024

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908878	EX1-FS4	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK

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ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908878	EX1-FS4	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908879	EX1-SWC5	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908879	EX1-SWC5	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908880	EX1-NWW4	Soil	03-JUN-2024	05-JUN-2024

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908880	EX1-NWW4	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908880	EX1-NWW4	Soil	03-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	05-JUN-2024	05-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908892	EX2-SWS1	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908892	EX2-SWS1	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908899	DUP 3	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908899	DUP 3	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	VB
Toluene	06-JUN-2024	06-JUN-2024	VB
Ethylbenzene	06-JUN-2024	06-JUN-2024	VB
m & p-Xylene	06-JUN-2024	06-JUN-2024	VB
o-Xylene	06-JUN-2024	06-JUN-2024	VB
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	VB
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	VB
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908923	EX2-FS1	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908923	EX2-FS1	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908931	EX2-SSWS2	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

Parameter	Date Prepared	Date Analyzed	Initials

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908931	EX2-SSWS2	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	VB
Toluene	06-JUN-2024	06-JUN-2024	VB
Ethylbenzene	06-JUN-2024	06-JUN-2024	VB
m & p-Xylene	06-JUN-2024	06-JUN-2024	VB
o-Xylene	06-JUN-2024	06-JUN-2024	VB
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	VB
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	VB
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908932	EX2-NWWS4	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA

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CLIENT NAME: PINCHIN LTD.

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908932	EX2-NWWS4	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	VB
Toluene	06-JUN-2024	06-JUN-2024	VB
Ethylbenzene	06-JUN-2024	06-JUN-2024	VB
m & p-Xylene	06-JUN-2024	06-JUN-2024	VB
o-Xylene	06-JUN-2024	06-JUN-2024	VB
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	VB
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	VB
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908933	EX2-WCWS3	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908933	EX2-WCWS3	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	VB
Toluene	06-JUN-2024	06-JUN-2024	VB
Ethylbenzene	06-JUN-2024	06-JUN-2024	VB
m & p-Xylene	06-JUN-2024	06-JUN-2024	VB
o-Xylene	06-JUN-2024	06-JUN-2024	VB
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	VB
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	VB
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908934	EX2-NEWS6	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908934	EX2-NEWS6	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	VB
Toluene	06-JUN-2024	06-JUN-2024	VB
Ethylbenzene	06-JUN-2024	06-JUN-2024	VB
m & p-Xylene	06-JUN-2024	06-JUN-2024	VB
o-Xylene	06-JUN-2024	06-JUN-2024	VB
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	VB
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	VB
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908934	EX2-NEWS6	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908935	EX2-FS3	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	VB
Toluene	06-JUN-2024	06-JUN-2024	VB
Ethylbenzene	06-JUN-2024	06-JUN-2024	VB

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908935	EX2-FS3	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
m & p-Xylene	06-JUN-2024	06-JUN-2024	VB
o-Xylene	06-JUN-2024	06-JUN-2024	VB
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	VB
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	VB
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908936	EX2-NCWS5	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA

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ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908936	EX2-NCWS5	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	VB
Toluene	06-JUN-2024	06-JUN-2024	VB
Ethylbenzene	06-JUN-2024	06-JUN-2024	VB
m & p-Xylene	06-JUN-2024	06-JUN-2024	VB
o-Xylene	06-JUN-2024	06-JUN-2024	VB
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	VB
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	VB
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908937	EX2-FS4	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908937	EX2-FS4	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	VB
Toluene	06-JUN-2024	06-JUN-2024	VB
Ethylbenzene	06-JUN-2024	06-JUN-2024	VB
m & p-Xylene	06-JUN-2024	06-JUN-2024	VB
o-Xylene	06-JUN-2024	06-JUN-2024	VB
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	VB
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	VB
F2 (C10 to C16)	06-JUN-2024	06-JUN-2024	CA
F3 (C16 to C34)	06-JUN-2024	06-JUN-2024	CA
F4 (C34 to C50)	06-JUN-2024	06-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	05-JUN-2024	05-JUN-2024	SD
Terphenyl	06-JUN-2024	06-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908949	EX2-FS2	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	06-JUN-2024	06-JUN-2024	JA
Arsenic	06-JUN-2024	06-JUN-2024	JA
Barium	06-JUN-2024	06-JUN-2024	JA
Beryllium	06-JUN-2024	06-JUN-2024	JA

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AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5908949	EX2-FS2	Soil	04-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Boron	06-JUN-2024	06-JUN-2024	JA
Boron (Hot Water Soluble)	06-JUN-2024	06-JUN-2024	ZK
Cadmium	06-JUN-2024	06-JUN-2024	JA
Chromium	06-JUN-2024	06-JUN-2024	JA
Cobalt	06-JUN-2024	06-JUN-2024	JA
Copper	06-JUN-2024	06-JUN-2024	JA
Lead	06-JUN-2024	06-JUN-2024	JA
Molybdenum	06-JUN-2024	06-JUN-2024	JA
Nickel	06-JUN-2024	06-JUN-2024	JA
Selenium	06-JUN-2024	06-JUN-2024	JA
Silver	06-JUN-2024	06-JUN-2024	JA
Thallium	06-JUN-2024	06-JUN-2024	JA
Uranium	06-JUN-2024	06-JUN-2024	JA
Vanadium	06-JUN-2024	06-JUN-2024	JA
Zinc	06-JUN-2024	06-JUN-2024	JA
Chromium, Hexavalent	06-JUN-2024	06-JUN-2024	RC
Cyanide, WAD	06-JUN-2024	06-JUN-2024	BG
Mercury	06-JUN-2024	06-JUN-2024	JA
Electrical Conductivity (2:1)	06-JUN-2024	06-JUN-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	06-JUN-2024	06-JUN-2024	XH
pH, 2:1 CaCl2 Extraction	06-JUN-2024	06-JUN-2024	XL

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

AGAT Laboratories

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

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

AGAT Laboratories

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

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z158388

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

AGAT Laboratories

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

Chain of Custody Record

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

Report Information:

Company: Pinchin
Contact:
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

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

Regulatory Requirements:

(Please check all applicable boxes)

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

☐ Regulation 406
Table _____ *Indicate One*
☐ Regulation 558
☐ CCME

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

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

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

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 24Z158388
Cooler Quantity: 2 large
Arrival Temperatures: 5.3 | 5.5 | 5.9 | 4.2 | 5.0 | 5.5
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: Bagged Ice

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Regulation 406 SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX1-SEW3	3/5/24	P AM PM	2	S					X	X							
2. EX1-SW4		AM PM							X	X							
3. DUP2		AM PM							X	X							
4. EX1-NEW1		AM PM							X	X							
5. EX1-ECW2		AM PM							X	X							
6. EX1-FS1		AM PM							X	X							
7. EX1-FS2		AM PM							X	X							
8. EX1-FS3		AM PM							X	X							
9. EX1-FS4		AM PM							X	X							
10. EX1-SW5	↓	↓ AM PM							X	X							
11. EX1-NWW9		P AM PM							X	X							

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			Tiffany	Jun 5	8:40 AM

Page _____ of _____

N°: T - 148111

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Document ID: DW-76-1511-022

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

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

Chain of Custody Record

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

Report Information:

Company: Pinchin
Contact:
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.02
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

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

Regulatory Requirements:

(Please check all applicable boxes)

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

☐ Regulation 406
Table _____ *Indicate One*
☐ Regulation 558
☐ CCME

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

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

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

Sample Matrix Legend

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

Laboratory Use Only

Work Order #:
Cooler Quantity: 2 large
Arrival Temperatures: 5.3 | 5.5 | 5.9 | 4.2 | 5.0 | 5.5
Custody Seal Intact: ☐ Yes ☐ No ☑ N/A
Notes: B I

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs	PCBs: Aroclors ☐	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Regulation 406 SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. PSW-S1	5/4/24	P AM PM	1				X											
2. DUP3		AM PM	3				X		X									
3. PFS1		AM PM	1				X											
4. PSNW-S2		AM PM	3				X		X									
5. APNWW-S4		AM PM					X		X									
6. PNCW-S3		AM PM					X		X									
7. PNEW-S6		AM PM					X		X									
8. PFS3		AM PM					X		X									
9. PNCW-S5		AM PM					X		X									
10. PFS4		AM PM	3				X		X									
11. PFS2		AM PM	1				X											

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
				Jun 5	8:40 AM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page _____ of _____

N°: T - 148112

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Document ID: DIV-78-1511.022 Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document.

AGAT Laboratories

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

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z159035
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jun 11, 2024
PAGES (INCLUDING COVER): 44
VERSION*: 2

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

Notes

VERSION 2:V2 issued 2024-06-11. Reg 153 All Metals added to selected IDs by client request. Supersedes version 1, issued on 2024-06-07. (LB)

Disclaimer:

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

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

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AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-11

SAMPLE DESCRIPTION:				SP3-S1	SP3-SP2	SP3-S3
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00
Parameter	Unit	G / S	RDL	5911272	5911274	5911275
Antimony	µg/g		0.8	1.0	0.8	<0.8
Arsenic	µg/g		1	2	2	2
Barium	µg/g		2.0	109	112	130
Beryllium	µg/g		0.5	<0.5	<0.5	<0.5
Boron	µg/g		5	6	7	8
Boron (Hot Water Soluble)	µg/g		0.10	0.27	0.28	0.28
Cadmium	µg/g		0.5	<0.5	0.5	<0.5
Chromium	µg/g		5	24	20	19
Cobalt	µg/g		0.8	4.3	4.8	4.8
Copper	µg/g		1.0	31.8	25.7	23.4
Lead	µg/g		1	63	51	44
Molybdenum	µg/g		0.5	0.7	0.8	0.8
Nickel	µg/g		1	11	12	12
Selenium	µg/g		0.8	<0.8	<0.8	<0.8
Silver	µg/g		0.5	<0.5	<0.5	<0.5
Thallium	µg/g		0.5	<0.5	<0.5	<0.5
Uranium	µg/g		0.50	<0.50	0.55	0.83
Vanadium	µg/g		2.0	18.5	21.2	19.7
Zinc	µg/g		5	123	132	130
Chromium, Hexavalent	µg/g		0.2	<0.2	<0.2	<0.2
Mercury	µg/g		0.10	0.11	<0.10	<0.10

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

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Certificate of Analysis

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-11

SAMPLE DESCRIPTION:				SP3-S1	SP3-SP2	SP3-S3
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5911272**	**5911274**	**5911275**
Naphthalene	µg/g		0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g		0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g		0.05	0.07	<0.05	<0.05
Fluorene	µg/g		0.05	0.07	<0.05	<0.05
Phenanthrene	µg/g		0.05	1.44	0.17	0.14
Anthracene	µg/g		0.05	0.48	<0.05	<0.05
Fluoranthene	µg/g		0.05	5.99	0.27	0.21
Pyrene	µg/g		0.05	5.15	0.22	0.17
Benzo(a)anthracene	µg/g		0.05	3.42	0.09	0.06
Chrysene	µg/g		0.05	2.33	0.09	0.09
Benzo(b)fluoranthene	µg/g		0.05	2.93	0.07	0.06
Benzo(k)fluoranthene	µg/g		0.05	1.66	0.07	0.05
Benzo(a)pyrene	µg/g		0.05	2.35	0.06	<0.05
Indeno(1,2,3-cd)pyrene	µg/g		0.05	0.93	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g		0.05	0.18	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g		0.05	0.91	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g		0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	7.5	7.9	7.8
Surrogate	**Unit**	**Acceptable Limits**				
Naphthalene-d8	%	50-140		70	75	70
Acridine-d9	%	50-140		80	90	85
Terphenyl-d14	%	50-140		80	70	90

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

5911272-5911275 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-11

	SAMPLE DESCRIPTION:			**SP3-S1**	**SP3-SP2**	**SP3-S3**
	SAMPLE TYPE:			**Soil**	**Soil**	**Soil**
	DATE SAMPLED:			**2024-06-05 12:00**	**2024-06-05 12:00**	**2024-06-05 12:00**
Parameter	**Unit**	**G / S**	**RDL**	**5911272**	**5911274**	**5911275**
F1 (C6 to C10)	µg/g		5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10
F3 (C16 to C34)	µg/g		50	328	326	85
F3 (C16 to C34) minus PAHs	µg/g		50	304	325	84
F4 (C34 to C50)	µg/g		50	52	188	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA
Moisture Content	%		0.1	7.5	7.9	7.8
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	%	50-140		104	112	104
Terphenyl	%	60-140		110	96	74

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

5911272-5911275 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-11

		SAMPLE DESCRIPTION:		EX1-NNWS7	EX1-NWS8	EX1-NCW9	EX1-NCW10	EX1-NEWS11	DUP4	EX1-NEWS12	DUP5
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5911276**	**5911277**	**5911278**	**5911279**	**5911280**	**5911281**	**5911282**	**5911283**
F1 (C6 to C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	23	<10	<10	<10	14	<10	<10	<10
F3 (C16 to C34)	µg/g		50	391	<50	<50	98	3620	75	<50	<50
F4 (C34 to C50)	µg/g		50	177	<50	<50	<50	644	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	22.9	20.9	28.5	32.1	28.3	20.5	10.1	10.5
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	%	50-140		116	108	108	107	109	99	107	106
Terphenyl	%	60-140		64	89	99	120	110	100	81	109

		SAMPLE DESCRIPTION:		EX1-FS5	EX1-FS6
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2024-06-05 12:00	2024-06-05 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5911284**	**5911289**
F1 (C6 to C10)	µg/g		5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	<50
F4 (C34 to C50)	µg/g		50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA
Moisture Content	%		0.1	17.8	18.1
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8	%	50-140		106	102
Terphenyl	%	60-140		84	103

Certified By: NPopnikolof

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Certificate of Analysis

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05 **DATE REPORTED: 2024-06-11**

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

5911276-5911289 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

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AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-11

SAMPLE DESCRIPTION:				SP3-S1	SP3-SP2	SP3-S3	EX1-NNWS7	EX1-NWS8	EX1-NCW9	EX1-NCW10	EX1-NEWS11
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00
Parameter	Unit	G / S	RDL	5911272	5911274	5911275	5911276	5911277	5911278	5911279	5911280
Dichlorodifluoromethane	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-11

		SAMPLE DESCRIPTION:		SP3-S1	SP3-SP2	SP3-S3	EX1-NNWS7	EX1-NWS8	EX1-NCW9	EX1-NCW10	EX1-NEWS11
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5911272**	**5911274**	**5911275**	**5911276**	**5911277**	**5911278**	**5911279**	**5911280**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	7.5	7.9	7.8	22.9	20.9	28.5	32.1	28.3
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		104	112	104	116	108	108	107	109
4-Bromofluorobenzene	% Recovery	50-140		88	107	106	101	107	103	100	104

Certified By:



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AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-11

SAMPLE DESCRIPTION:				DUP4	EX1-NEWS12	DUP5	EX1-FS5	EX1-FS6
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00
Parameter	Unit	G / S	RDL	5911281	5911282	5911283	5911284	5911289
Dichlorodifluoromethane	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popowich

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Certificate of Analysis

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-05

DATE REPORTED: 2024-06-11

				SAMPLE DESCRIPTION:	DUP4	EX1-NEWS12	DUP5	EX1-FS5	EX1-FS6
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00	2024-06-05 12:00
Parameter	**Unit**	**G / S**	**RDL**		**5911281**	**5911282**	**5911283**	**5911284**	**5911289**
m & p-Xylene	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1		20.5	10.1	10.5	17.8	18.1
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140			99	107	106	106	102
4-Bromofluorobenzene	% Recovery	50-140			85	102	88	103	84

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

5911272-5911289 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

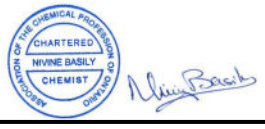
Soil Analysis

RPT Date: Jun 11, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	5920886		<0.8	<0.8	NA	< 0.8	134%	70%	130%	101%	80%	120%	91%	70%	130%
Arsenic	5920886		2	2	NA	< 1	120%	70%	130%	102%	80%	120%	127%	70%	130%
Barium	5920886		24.7	23.6	4.6%	< 2.0	101%	70%	130%	100%	80%	120%	103%	70%	130%
Beryllium	5920886		<0.5	<0.5	NA	< 0.5	111%	70%	130%	114%	80%	120%	125%	70%	130%
Boron	5920886		6	6	NA	< 5	98%	70%	130%	103%	80%	120%	103%	70%	130%
Boron (Hot Water Soluble)	5920042		<0.10	<0.10	NA	< 0.10	87%	60%	140%	102%	70%	130%	103%	60%	140%
Cadmium	5920886		<0.5	<0.5	NA	< 0.5	97%	70%	130%	97%	80%	120%	103%	70%	130%
Chromium	5920886		8	10	NA	< 5	104%	70%	130%	101%	80%	120%	107%	70%	130%
Cobalt	5920886		2.9	2.9	NA	< 0.8	102%	70%	130%	100%	80%	120%	101%	70%	130%
Copper	5920886		14.2	14.1	0.7%	< 1.0	100%	70%	130%	105%	80%	120%	102%	70%	130%
Lead	5920886		39	41	5.0%	< 1	101%	70%	130%	91%	80%	120%	104%	70%	130%
Molybdenum	5920886		<0.5	<0.5	NA	< 0.5	108%	70%	130%	106%	80%	120%	109%	70%	130%
Nickel	5920886		8	8	0.0%	< 1	104%	70%	130%	102%	80%	120%	100%	70%	130%
Selenium	5920886		<0.8	<0.8	NA	< 0.8	97%	70%	130%	114%	80%	120%	111%	70%	130%
Silver	5920886		<0.5	<0.5	NA	< 0.5	112%	70%	130%	105%	80%	120%	105%	70%	130%
Thallium	5920886		<0.5	<0.5	NA	< 0.5	108%	70%	130%	97%	80%	120%	111%	70%	130%
Uranium	5920886		<0.50	<0.50	NA	< 0.50	97%	70%	130%	90%	80%	120%	90%	70%	130%
Vanadium	5920886		14.5	15.3	5.4%	< 2.0	110%	70%	130%	99%	80%	120%	105%	70%	130%
Zinc	5920886		64	64	0.0%	< 5	101%	70%	130%	106%	80%	120%	114%	70%	130%
Chromium, Hexavalent	5920886		<0.2	<0.2	NA	< 0.2	96%	70%	130%	93%	80%	120%	72%	70%	130%
Mercury	5920886		<0.10	<0.10	NA	< 0.10	107%	70%	130%	98%	80%	120%	100%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 11, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	5887835		<5	<5	NA	< 5	122%	60%	140%	118%	60%	140%	88%	60%	140%
F2 (C10 to C16)	5911272	5911272	< 10	< 10	NA	< 10	108%	60%	140%	90%	60%	140%	118%	60%	140%
F3 (C16 to C34)	5911272	5911272	328	400	19.8%	< 50	111%	60%	140%	96%	60%	140%	106%	60%	140%
F4 (C34 to C50)	5911272	5911272	52	51	NA	< 50	76%	60%	140%	106%	60%	140%	77%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5906688		<0.05	<0.05	NA	< 0.05	81%	50%	140%	93%	50%	140%	78%	50%	140%
Acenaphthylene	5906688		<0.05	<0.05	NA	< 0.05	94%	50%	140%	95%	50%	140%	75%	50%	140%
Acenaphthene	5906688		<0.05	<0.05	NA	< 0.05	107%	50%	140%	95%	50%	140%	85%	50%	140%
Fluorene	5906688		<0.05	<0.05	NA	< 0.05	121%	50%	140%	105%	50%	140%	90%	50%	140%
Phenanthrene	5906688		<0.05	<0.05	NA	< 0.05	123%	50%	140%	105%	50%	140%	93%	50%	140%
Anthracene	5906688		<0.05	<0.05	NA	< 0.05	121%	50%	140%	100%	50%	140%	88%	50%	140%
Fluoranthene	5906688		<0.05	<0.05	NA	< 0.05	128%	50%	140%	98%	50%	140%	110%	50%	140%
Pyrene	5906688		<0.05	<0.05	NA	< 0.05	134%	50%	140%	100%	50%	140%	105%	50%	140%
Benzo(a)anthracene	5906688		<0.05	<0.05	NA	< 0.05	112%	50%	140%	83%	50%	140%	90%	50%	140%
Chrysene	5906688		<0.05	<0.05	NA	< 0.05	116%	50%	140%	73%	50%	140%	85%	50%	140%
Benzo(b)fluoranthene	5906688		<0.05	<0.05	NA	< 0.05	99%	50%	140%	75%	50%	140%	75%	50%	140%
Benzo(k)fluoranthene	5906688		<0.05	<0.05	NA	< 0.05	131%	50%	140%	98%	50%	140%	83%	50%	140%
Benzo(a)pyrene	5906688		<0.05	<0.05	NA	< 0.05	103%	50%	140%	85%	50%	140%	83%	50%	140%
Indeno(1,2,3-cd)pyrene	5906688		<0.05	<0.05	NA	< 0.05	93%	50%	140%	80%	50%	140%	93%	50%	140%
Dibenz(a,h)anthracene	5906688		<0.05	<0.05	NA	< 0.05	100%	50%	140%	98%	50%	140%	88%	50%	140%
Benzo(g,h,i)perylene	5906688		<0.05	<0.05	NA	< 0.05	81%	50%	140%	78%	50%	140%	100%	50%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5887835		<0.05	<0.05	NA	< 0.05	102%	50%	140%	98%	50%	140%	85%	50%	140%
Vinyl Chloride	5887835		<0.02	<0.02	NA	< 0.02	101%	50%	140%	117%	50%	140%	132%	50%	140%
Bromomethane	5887835		<0.05	<0.05	NA	< 0.05	109%	50%	140%	133%	50%	140%	127%	50%	140%
Trichlorofluoromethane	5887835		<0.05	<0.05	NA	< 0.05	98%	50%	140%	131%	50%	140%	121%	50%	140%
Acetone	5887835		<0.50	<0.50	NA	< 0.50	107%	50%	140%	100%	50%	140%	105%	50%	140%
1,1-Dichloroethylene	5887835		<0.05	<0.05	NA	< 0.05	64%	50%	140%	93%	60%	130%	107%	50%	140%
Methylene Chloride	5887835		<0.05	<0.05	NA	< 0.05	98%	50%	140%	100%	60%	130%	100%	50%	140%
Trans- 1,2-Dichloroethylene	5887835		<0.05	<0.05	NA	< 0.05	73%	50%	140%	93%	60%	130%	106%	50%	140%
Methyl tert-butyl Ether	5887835		<0.05	<0.05	NA	< 0.05	74%	50%	140%	81%	60%	130%	68%	50%	140%
1,1-Dichloroethane	5887835		<0.02	<0.02	NA	< 0.02	84%	50%	140%	93%	60%	130%	102%	50%	140%
Methyl Ethyl Ketone	5887835		<0.50	<0.50	NA	< 0.50	100%	50%	140%	95%	50%	140%	87%	50%	140%
Cis- 1,2-Dichloroethylene	5887835		<0.02	<0.02	NA	< 0.02	78%	50%	140%	95%	60%	130%	108%	50%	140%
Chloroform	5887835		<0.04	<0.04	NA	< 0.04	81%	50%	140%	103%	60%	130%	107%	50%	140%
1,2-Dichloroethane	5887835		<0.03	<0.03	NA	< 0.03	85%	50%	140%	98%	60%	130%	99%	50%	140%
1,1,1-Trichloroethane	5887835		<0.05	<0.05	NA	< 0.05	86%	50%	140%	77%	60%	130%	70%	50%	140%
Carbon Tetrachloride	5887835		<0.05	<0.05	NA	< 0.05	66%	50%	140%	85%	60%	130%	79%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 11, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	5887835		<0.02	<0.02	NA	< 0.02	78%	50%	140%	104%	60%	130%	94%	50%	140%
1,2-Dichloropropane	5887835		<0.03	<0.03	NA	< 0.03	72%	50%	140%	90%	60%	130%	81%	50%	140%
Trichloroethylene	5887835		<0.03	<0.03	NA	< 0.03	76%	50%	140%	98%	60%	130%	92%	50%	140%
Bromodichloromethane	5887835		<0.05	<0.05	NA	< 0.05	68%	50%	140%	80%	60%	130%	75%	50%	140%
Methyl Isobutyl Ketone	5887835		<0.50	<0.50	NA	< 0.50	73%	50%	140%	95%	50%	140%	100%	50%	140%
1,1,2-Trichloroethane	5887835		<0.04	<0.04	NA	< 0.04	99%	50%	140%	99%	60%	130%	101%	50%	140%
Toluene	5887835		<0.05	<0.05	NA	< 0.05	93%	50%	140%	105%	60%	130%	104%	50%	140%
Dibromochloromethane	5887835		<0.05	<0.05	NA	< 0.05	75%	50%	140%	89%	60%	130%	74%	50%	140%
Ethylene Dibromide	5887835		<0.04	<0.04	NA	< 0.04	77%	50%	140%	100%	60%	130%	92%	50%	140%
Tetrachloroethylene	5887835		<0.05	<0.05	NA	< 0.05	86%	50%	140%	102%	60%	130%	100%	50%	140%
1,1,1,2-Tetrachloroethane	5887835		<0.04	<0.04	NA	< 0.04	80%	50%	140%	71%	60%	130%	75%	50%	140%
Chlorobenzene	5887835		<0.05	<0.05	NA	< 0.05	89%	50%	140%	99%	60%	130%	104%	50%	140%
Ethylbenzene	5887835		<0.05	<0.05	NA	< 0.05	81%	50%	140%	94%	60%	130%	107%	50%	140%
m & p-Xylene	5887835		<0.05	<0.05	NA	< 0.05	82%	50%	140%	114%	60%	130%	113%	50%	140%
Bromoform	5887835		<0.05	<0.05	NA	< 0.05	84%	50%	140%	67%	60%	130%	65%	50%	140%
Styrene	5887835		<0.05	<0.05	NA	< 0.05	63%	50%	140%	78%	60%	130%	87%	50%	140%
1,1,2,2-Tetrachloroethane	5887835		<0.05	<0.05	NA	< 0.05	87%	50%	140%	103%	60%	130%	98%	50%	140%
o-Xylene	5887835		<0.05	<0.05	NA	< 0.05	87%	50%	140%	93%	60%	130%	98%	50%	140%
1,3-Dichlorobenzene	5887835		<0.05	<0.05	NA	< 0.05	88%	50%	140%	106%	60%	130%	108%	50%	140%
1,4-Dichlorobenzene	5887835		<0.05	<0.05	NA	< 0.05	86%	50%	140%	100%	60%	130%	100%	50%	140%
1,2-Dichlorobenzene	5887835		<0.05	<0.05	NA	< 0.05	89%	50%	140%	105%	60%	130%	104%	50%	140%
n-Hexane	5887835		<0.05	<0.05	NA	< 0.05	73%	50%	140%	94%	60%	130%	75%	50%	140%

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

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

F2 (C10 to C16)	5906059	< 10	< 10	NA	< 10	110%	60%	140%	105%	60%	140%	98%	60%	140%
F3 (C16 to C34)	5906059	< 50	< 50	NA	< 50	108%	60%	140%	120%	60%	140%	122%	60%	140%
F4 (C34 to C50)	5906059	< 50	< 50	NA	< 50	79%	60%	140%	82%	60%	140%	90%	60%	140%

Certified By: N Popnikolof

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

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Jun 11, 2024

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)										
Antimony		134%	70%	130%	101%	80%	120%	91%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911272	SP3-S1	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	11-JUN-2024	11-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	07-JUN-2024	07-JUN-2024	NP
Acenaphthylene	07-JUN-2024	07-JUN-2024	NP
Acenaphthene	07-JUN-2024	07-JUN-2024	NP
Fluorene	07-JUN-2024	07-JUN-2024	NP
Phenanthrene	07-JUN-2024	07-JUN-2024	NP
Anthracene	07-JUN-2024	07-JUN-2024	NP
Fluoranthene	07-JUN-2024	07-JUN-2024	NP
Pyrene	07-JUN-2024	07-JUN-2024	NP
Benzo(a)anthracene	07-JUN-2024	07-JUN-2024	NP
Chrysene	07-JUN-2024	07-JUN-2024	NP
Benzo(b)fluoranthene	07-JUN-2024	07-JUN-2024	NP
Benzo(k)fluoranthene	07-JUN-2024	07-JUN-2024	NP
Benzo(a)pyrene	07-JUN-2024	07-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	07-JUN-2024	07-JUN-2024	NP
Dibenz(a,h)anthracene	07-JUN-2024	07-JUN-2024	NP

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911272	SP3-S1	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(g,h,i)perylene	07-JUN-2024	07-JUN-2024	NP
2-and 1-methyl Naphthalene	07-JUN-2024	07-JUN-2024	SYS
Naphthalene-d8	07-JUN-2024	07-JUN-2024	NP
Acridine-d9	07-JUN-2024	07-JUN-2024	NP
Terphenyl-d14	07-JUN-2024	07-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	07-JUN-2024	07-JUN-2024	SYS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34) minus PAHs	07-JUN-2024	07-JUN-2024	SYS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911272	SP3-S1	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911274	SP3-SP2	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE

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AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911274	SP3-SP2	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	11-JUN-2024	11-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	07-JUN-2024	07-JUN-2024	NP
Acenaphthylene	07-JUN-2024	07-JUN-2024	NP
Acenaphthene	07-JUN-2024	07-JUN-2024	NP
Fluorene	07-JUN-2024	07-JUN-2024	NP
Phenanthrene	07-JUN-2024	07-JUN-2024	NP
Anthracene	07-JUN-2024	07-JUN-2024	NP
Fluoranthene	07-JUN-2024	07-JUN-2024	NP
Pyrene	07-JUN-2024	07-JUN-2024	NP
Benzo(a)anthracene	07-JUN-2024	07-JUN-2024	NP
Chrysene	07-JUN-2024	07-JUN-2024	NP
Benzo(b)fluoranthene	07-JUN-2024	07-JUN-2024	NP
Benzo(k)fluoranthene	07-JUN-2024	07-JUN-2024	NP
Benzo(a)pyrene	07-JUN-2024	07-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	07-JUN-2024	07-JUN-2024	NP
Dibenz(a,h)anthracene	07-JUN-2024	07-JUN-2024	NP
Benzo(g,h,i)perylene	07-JUN-2024	07-JUN-2024	NP
2-and 1-methyl Naphthalene	07-JUN-2024	07-JUN-2024	SYS
Naphthalene-d8	07-JUN-2024	07-JUN-2024	NP
Acridine-d9	07-JUN-2024	07-JUN-2024	NP
Terphenyl-d14	07-JUN-2024	07-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	SD

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911274	SP3-SP2	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	07-JUN-2024	07-JUN-2024	SYS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34) minus PAHs	07-JUN-2024	07-JUN-2024	SYS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911274	SP3-SP2	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911275	SP3-S3	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE

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AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911275	SP3-S3	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	11-JUN-2024	11-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	07-JUN-2024	07-JUN-2024	NP
Acenaphthylene	07-JUN-2024	07-JUN-2024	NP
Acenaphthene	07-JUN-2024	07-JUN-2024	NP
Fluorene	07-JUN-2024	07-JUN-2024	NP
Phenanthrene	07-JUN-2024	07-JUN-2024	NP
Anthracene	07-JUN-2024	07-JUN-2024	NP
Fluoranthene	07-JUN-2024	07-JUN-2024	NP
Pyrene	07-JUN-2024	07-JUN-2024	NP
Benzo(a)anthracene	07-JUN-2024	07-JUN-2024	NP
Chrysene	07-JUN-2024	07-JUN-2024	NP
Benzo(b)fluoranthene	07-JUN-2024	07-JUN-2024	NP
Benzo(k)fluoranthene	07-JUN-2024	07-JUN-2024	NP
Benzo(a)pyrene	07-JUN-2024	07-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	07-JUN-2024	07-JUN-2024	NP
Dibenz(a,h)anthracene	07-JUN-2024	07-JUN-2024	NP
Benzo(g,h,i)perylene	07-JUN-2024	07-JUN-2024	NP
2-and 1-methyl Naphthalene	07-JUN-2024	07-JUN-2024	SYS
Naphthalene-d8	07-JUN-2024	07-JUN-2024	NP
Acridine-d9	07-JUN-2024	07-JUN-2024	NP
Terphenyl-d14	07-JUN-2024	07-JUN-2024	NP
Moisture Content	06-JUN-2024	06-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	07-JUN-2024	07-JUN-2024	SYS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34) minus PAHs	07-JUN-2024	07-JUN-2024	SYS

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911275	SP3-S3	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911275	SP3-S3	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911276	EX1-NNWS7	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911276	EX1-NNWS7	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911277	EX1-NWS8	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	06-JUN-2024	06-JUN-2024	CK
F1 (C6 to C10) minus BTEX	06-JUN-2024	06-JUN-2024	SYS

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911277	EX1-NWS8	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	06-JUN-2024	06-JUN-2024	CK
Vinyl Chloride	06-JUN-2024	06-JUN-2024	CK
Bromomethane	06-JUN-2024	06-JUN-2024	CK
Trichlorofluoromethane	06-JUN-2024	06-JUN-2024	CK
Acetone	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methylene Chloride	06-JUN-2024	06-JUN-2024	CK
Trans- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Methyl tert-butyl Ether	06-JUN-2024	06-JUN-2024	CK
1,1-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
Methyl Ethyl Ketone	06-JUN-2024	06-JUN-2024	CK
Cis- 1,2-Dichloroethylene	06-JUN-2024	06-JUN-2024	CK
Chloroform	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloroethane	06-JUN-2024	06-JUN-2024	CK
1,1,1-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Carbon Tetrachloride	06-JUN-2024	06-JUN-2024	CK
Benzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichloropropane	06-JUN-2024	06-JUN-2024	CK
Trichloroethylene	06-JUN-2024	06-JUN-2024	CK
Bromodichloromethane	06-JUN-2024	06-JUN-2024	CK
Methyl Isobutyl Ketone	06-JUN-2024	06-JUN-2024	CK
1,1,2-Trichloroethane	06-JUN-2024	06-JUN-2024	CK
Toluene	06-JUN-2024	06-JUN-2024	CK
Dibromochloromethane	06-JUN-2024	06-JUN-2024	CK
Ethylene Dibromide	06-JUN-2024	06-JUN-2024	CK
Tetrachloroethylene	06-JUN-2024	06-JUN-2024	CK
1,1,1,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
Chlorobenzene	06-JUN-2024	06-JUN-2024	CK
Ethylbenzene	06-JUN-2024	06-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911277	EX1-NWS8	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
m & p-Xylene	06-JUN-2024	06-JUN-2024	CK
Bromoform	06-JUN-2024	06-JUN-2024	CK
Styrene	06-JUN-2024	06-JUN-2024	CK
1,1,2,2-Tetrachloroethane	06-JUN-2024	06-JUN-2024	CK
o-Xylene	06-JUN-2024	06-JUN-2024	CK
1,3-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,4-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
1,2-Dichlorobenzene	06-JUN-2024	06-JUN-2024	CK
Xylenes (Total)	06-JUN-2024	06-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	06-JUN-2024	06-JUN-2024	SYS
n-Hexane	06-JUN-2024	06-JUN-2024	CK
Toluene-d8	06-JUN-2024	06-JUN-2024	CK
4-Bromofluorobenzene	06-JUN-2024	06-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911278	EX1-NCW9	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	07-JUN-2024	07-JUN-2024	CK
F1 (C6 to C10) minus BTEX	07-JUN-2024	07-JUN-2024	SYS
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	07-JUN-2024	07-JUN-2024	CK
Vinyl Chloride	07-JUN-2024	07-JUN-2024	CK
Bromomethane	07-JUN-2024	07-JUN-2024	CK
Trichlorofluoromethane	07-JUN-2024	07-JUN-2024	CK
Acetone	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methylene Chloride	07-JUN-2024	07-JUN-2024	CK
Trans- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911278	EX1-NCW9	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methyl tert-butyl Ether	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
Methyl Ethyl Ketone	07-JUN-2024	07-JUN-2024	CK
Cis- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Chloroform	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
1,1,1-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Carbon Tetrachloride	07-JUN-2024	07-JUN-2024	CK
Benzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloropropane	07-JUN-2024	07-JUN-2024	CK
Trichloroethylene	07-JUN-2024	07-JUN-2024	CK
Bromodichloromethane	07-JUN-2024	07-JUN-2024	CK
Methyl Isobutyl Ketone	07-JUN-2024	07-JUN-2024	CK
1,1,2-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Toluene	07-JUN-2024	07-JUN-2024	CK
Dibromochloromethane	07-JUN-2024	07-JUN-2024	CK
Ethylene Dibromide	07-JUN-2024	07-JUN-2024	CK
Tetrachloroethylene	07-JUN-2024	07-JUN-2024	CK
1,1,1,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
Chlorobenzene	07-JUN-2024	07-JUN-2024	CK
Ethylbenzene	07-JUN-2024	07-JUN-2024	CK
m & p-Xylene	07-JUN-2024	07-JUN-2024	CK
Bromoform	07-JUN-2024	07-JUN-2024	CK
Styrene	07-JUN-2024	07-JUN-2024	CK
1,1,2,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
o-Xylene	07-JUN-2024	07-JUN-2024	CK
1,3-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,4-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
Xylenes (Total)	07-JUN-2024	07-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	07-JUN-2024	07-JUN-2024	SYS
n-Hexane	07-JUN-2024	07-JUN-2024	CK
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
4-Bromofluorobenzene	07-JUN-2024	07-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911279	EX1-NCW10	Soil	05-JUN-2024	05-JUN-2024

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

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Time Markers

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911279	EX1-NCW10	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	07-JUN-2024	07-JUN-2024	CK
F1 (C6 to C10) minus BTEX	07-JUN-2024	07-JUN-2024	SYS
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	07-JUN-2024	07-JUN-2024	CK
Vinyl Chloride	07-JUN-2024	07-JUN-2024	CK
Bromomethane	07-JUN-2024	07-JUN-2024	CK
Trichlorofluoromethane	07-JUN-2024	07-JUN-2024	CK
Acetone	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methylene Chloride	07-JUN-2024	07-JUN-2024	CK
Trans- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methyl tert-butyl Ether	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
Methyl Ethyl Ketone	07-JUN-2024	07-JUN-2024	CK
Cis- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Chloroform	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
1,1,1-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Carbon Tetrachloride	07-JUN-2024	07-JUN-2024	CK
Benzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloropropane	07-JUN-2024	07-JUN-2024	CK
Trichloroethylene	07-JUN-2024	07-JUN-2024	CK
Bromodichloromethane	07-JUN-2024	07-JUN-2024	CK
Methyl Isobutyl Ketone	07-JUN-2024	07-JUN-2024	CK
1,1,2-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Toluene	07-JUN-2024	07-JUN-2024	CK
Dibromochloromethane	07-JUN-2024	07-JUN-2024	CK
Ethylene Dibromide	07-JUN-2024	07-JUN-2024	CK
Tetrachloroethylene	07-JUN-2024	07-JUN-2024	CK
1,1,1,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK

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

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911279	EX1-NCW10	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	07-JUN-2024	07-JUN-2024	CK
Ethylbenzene	07-JUN-2024	07-JUN-2024	CK
m & p-Xylene	07-JUN-2024	07-JUN-2024	CK
Bromoform	07-JUN-2024	07-JUN-2024	CK
Styrene	07-JUN-2024	07-JUN-2024	CK
1,1,2,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
o-Xylene	07-JUN-2024	07-JUN-2024	CK
1,3-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,4-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
Xylenes (Total)	07-JUN-2024	07-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	07-JUN-2024	07-JUN-2024	SYS
n-Hexane	07-JUN-2024	07-JUN-2024	CK
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
4-Bromofluorobenzene	07-JUN-2024	07-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911280	EX1-NEWS11	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	07-JUN-2024	07-JUN-2024	CK
F1 (C6 to C10) minus BTEX	07-JUN-2024	07-JUN-2024	SYS
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	07-JUN-2024	07-JUN-2024	CK
Vinyl Chloride	07-JUN-2024	07-JUN-2024	CK
Bromomethane	07-JUN-2024	07-JUN-2024	CK
Trichlorofluoromethane	07-JUN-2024	07-JUN-2024	CK
Acetone	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911280	EX1-NEWS11	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	07-JUN-2024	07-JUN-2024	CK
Trans- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methyl tert-butyl Ether	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
Methyl Ethyl Ketone	07-JUN-2024	07-JUN-2024	CK
Cis- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Chloroform	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
1,1,1-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Carbon Tetrachloride	07-JUN-2024	07-JUN-2024	CK
Benzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloropropane	07-JUN-2024	07-JUN-2024	CK
Trichloroethylene	07-JUN-2024	07-JUN-2024	CK
Bromodichloromethane	07-JUN-2024	07-JUN-2024	CK
Methyl Isobutyl Ketone	07-JUN-2024	07-JUN-2024	CK
1,1,2-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Toluene	07-JUN-2024	07-JUN-2024	CK
Dibromochloromethane	07-JUN-2024	07-JUN-2024	CK
Ethylene Dibromide	07-JUN-2024	07-JUN-2024	CK
Tetrachloroethylene	07-JUN-2024	07-JUN-2024	CK
1,1,1,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
Chlorobenzene	07-JUN-2024	07-JUN-2024	CK
Ethylbenzene	07-JUN-2024	07-JUN-2024	CK
m & p-Xylene	07-JUN-2024	07-JUN-2024	CK
Bromoform	07-JUN-2024	07-JUN-2024	CK
Styrene	07-JUN-2024	07-JUN-2024	CK
1,1,2,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
o-Xylene	07-JUN-2024	07-JUN-2024	CK
1,3-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,4-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
Xylenes (Total)	07-JUN-2024	07-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	07-JUN-2024	07-JUN-2024	SYS
n-Hexane	07-JUN-2024	07-JUN-2024	CK
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
4-Bromofluorobenzene	07-JUN-2024	07-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911281	DUP4	Soil	05-JUN-2024	05-JUN-2024

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911281	DUP4	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	07-JUN-2024	07-JUN-2024	CK
F1 (C6 to C10) minus BTEX	07-JUN-2024	07-JUN-2024	SYS
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	07-JUN-2024	07-JUN-2024	CK
Vinyl Chloride	07-JUN-2024	07-JUN-2024	CK
Bromomethane	07-JUN-2024	07-JUN-2024	CK
Trichlorofluoromethane	07-JUN-2024	07-JUN-2024	CK
Acetone	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methylene Chloride	07-JUN-2024	07-JUN-2024	CK
Trans- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methyl tert-butyl Ether	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
Methyl Ethyl Ketone	07-JUN-2024	07-JUN-2024	CK
Cis- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Chloroform	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
1,1,1-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Carbon Tetrachloride	07-JUN-2024	07-JUN-2024	CK
Benzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloropropane	07-JUN-2024	07-JUN-2024	CK
Trichloroethylene	07-JUN-2024	07-JUN-2024	CK
Bromodichloromethane	07-JUN-2024	07-JUN-2024	CK
Methyl Isobutyl Ketone	07-JUN-2024	07-JUN-2024	CK
1,1,2-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Toluene	07-JUN-2024	07-JUN-2024	CK
Dibromochloromethane	07-JUN-2024	07-JUN-2024	CK
Ethylene Dibromide	07-JUN-2024	07-JUN-2024	CK
Tetrachloroethylene	07-JUN-2024	07-JUN-2024	CK
1,1,1,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911281	DUP4	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	07-JUN-2024	07-JUN-2024	CK
Ethylbenzene	07-JUN-2024	07-JUN-2024	CK
m & p-Xylene	07-JUN-2024	07-JUN-2024	CK
Bromoform	07-JUN-2024	07-JUN-2024	CK
Styrene	07-JUN-2024	07-JUN-2024	CK
1,1,2,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
o-Xylene	07-JUN-2024	07-JUN-2024	CK
1,3-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,4-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
Xylenes (Total)	07-JUN-2024	07-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	07-JUN-2024	07-JUN-2024	SYS
n-Hexane	07-JUN-2024	07-JUN-2024	CK
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
4-Bromofluorobenzene	07-JUN-2024	07-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911282	EX1-NEWS12	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	07-JUN-2024	07-JUN-2024	CK
F1 (C6 to C10) minus BTEX	07-JUN-2024	07-JUN-2024	SYS
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	07-JUN-2024	07-JUN-2024	CK
Vinyl Chloride	07-JUN-2024	07-JUN-2024	CK
Bromomethane	07-JUN-2024	07-JUN-2024	CK
Trichlorofluoromethane	07-JUN-2024	07-JUN-2024	CK
Acetone	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911282	EX1-NEWS12	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	07-JUN-2024	07-JUN-2024	CK
Trans- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methyl tert-butyl Ether	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
Methyl Ethyl Ketone	07-JUN-2024	07-JUN-2024	CK
Cis- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Chloroform	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
1,1,1-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Carbon Tetrachloride	07-JUN-2024	07-JUN-2024	CK
Benzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloropropane	07-JUN-2024	07-JUN-2024	CK
Trichloroethylene	07-JUN-2024	07-JUN-2024	CK
Bromodichloromethane	07-JUN-2024	07-JUN-2024	CK
Methyl Isobutyl Ketone	07-JUN-2024	07-JUN-2024	CK
1,1,2-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Toluene	07-JUN-2024	07-JUN-2024	CK
Dibromochloromethane	07-JUN-2024	07-JUN-2024	CK
Ethylene Dibromide	07-JUN-2024	07-JUN-2024	CK
Tetrachloroethylene	07-JUN-2024	07-JUN-2024	CK
1,1,1,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
Chlorobenzene	07-JUN-2024	07-JUN-2024	CK
Ethylbenzene	07-JUN-2024	07-JUN-2024	CK
m & p-Xylene	07-JUN-2024	07-JUN-2024	CK
Bromoform	07-JUN-2024	07-JUN-2024	CK
Styrene	07-JUN-2024	07-JUN-2024	CK
1,1,2,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
o-Xylene	07-JUN-2024	07-JUN-2024	CK
1,3-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,4-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
Xylenes (Total)	07-JUN-2024	07-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	07-JUN-2024	07-JUN-2024	SYS
n-Hexane	07-JUN-2024	07-JUN-2024	CK
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
4-Bromofluorobenzene	07-JUN-2024	07-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911283	DUP5	Soil	05-JUN-2024	05-JUN-2024

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

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ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911283	DUP5	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	07-JUN-2024	07-JUN-2024	CK
F1 (C6 to C10) minus BTEX	07-JUN-2024	07-JUN-2024	SYS
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	07-JUN-2024	07-JUN-2024	CK
Vinyl Chloride	07-JUN-2024	07-JUN-2024	CK
Bromomethane	07-JUN-2024	07-JUN-2024	CK
Trichlorofluoromethane	07-JUN-2024	07-JUN-2024	CK
Acetone	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methylene Chloride	07-JUN-2024	07-JUN-2024	CK
Trans- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methyl tert-butyl Ether	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
Methyl Ethyl Ketone	07-JUN-2024	07-JUN-2024	CK
Cis- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Chloroform	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
1,1,1-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Carbon Tetrachloride	07-JUN-2024	07-JUN-2024	CK
Benzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloropropane	07-JUN-2024	07-JUN-2024	CK
Trichloroethylene	07-JUN-2024	07-JUN-2024	CK
Bromodichloromethane	07-JUN-2024	07-JUN-2024	CK
Methyl Isobutyl Ketone	07-JUN-2024	07-JUN-2024	CK
1,1,2-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Toluene	07-JUN-2024	07-JUN-2024	CK
Dibromochloromethane	07-JUN-2024	07-JUN-2024	CK
Ethylene Dibromide	07-JUN-2024	07-JUN-2024	CK
Tetrachloroethylene	07-JUN-2024	07-JUN-2024	CK
1,1,1,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK

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5835 COOPERS AVENUE
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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911283	DUP5	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	07-JUN-2024	07-JUN-2024	CK
Ethylbenzene	07-JUN-2024	07-JUN-2024	CK
m & p-Xylene	07-JUN-2024	07-JUN-2024	CK
Bromoform	07-JUN-2024	07-JUN-2024	CK
Styrene	07-JUN-2024	07-JUN-2024	CK
1,1,2,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
o-Xylene	07-JUN-2024	07-JUN-2024	CK
1,3-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,4-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
Xylenes (Total)	07-JUN-2024	07-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	07-JUN-2024	07-JUN-2024	SYS
n-Hexane	07-JUN-2024	07-JUN-2024	CK
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
4-Bromofluorobenzene	07-JUN-2024	07-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911284	EX1-FS5	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	07-JUN-2024	07-JUN-2024	CK
F1 (C6 to C10) minus BTEX	07-JUN-2024	07-JUN-2024	SYS
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	07-JUN-2024	07-JUN-2024	CK
Vinyl Chloride	07-JUN-2024	07-JUN-2024	CK
Bromomethane	07-JUN-2024	07-JUN-2024	CK
Trichlorofluoromethane	07-JUN-2024	07-JUN-2024	CK
Acetone	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911284	EX1-FS5	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	07-JUN-2024	07-JUN-2024	CK
Trans- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methyl tert-butyl Ether	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
Methyl Ethyl Ketone	07-JUN-2024	07-JUN-2024	CK
Cis- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Chloroform	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
1,1,1-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Carbon Tetrachloride	07-JUN-2024	07-JUN-2024	CK
Benzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloropropane	07-JUN-2024	07-JUN-2024	CK
Trichloroethylene	07-JUN-2024	07-JUN-2024	CK
Bromodichloromethane	07-JUN-2024	07-JUN-2024	CK
Methyl Isobutyl Ketone	07-JUN-2024	07-JUN-2024	CK
1,1,2-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Toluene	07-JUN-2024	07-JUN-2024	CK
Dibromochloromethane	07-JUN-2024	07-JUN-2024	CK
Ethylene Dibromide	07-JUN-2024	07-JUN-2024	CK
Tetrachloroethylene	07-JUN-2024	07-JUN-2024	CK
1,1,1,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
Chlorobenzene	07-JUN-2024	07-JUN-2024	CK
Ethylbenzene	07-JUN-2024	07-JUN-2024	CK
m & p-Xylene	07-JUN-2024	07-JUN-2024	CK
Bromoform	07-JUN-2024	07-JUN-2024	CK
Styrene	07-JUN-2024	07-JUN-2024	CK
1,1,2,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
o-Xylene	07-JUN-2024	07-JUN-2024	CK
1,3-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,4-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
Xylenes (Total)	07-JUN-2024	07-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	07-JUN-2024	07-JUN-2024	SYS
n-Hexane	07-JUN-2024	07-JUN-2024	CK
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
4-Bromofluorobenzene	07-JUN-2024	07-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911289	EX1-FS6	Soil	05-JUN-2024	05-JUN-2024

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Time Markers

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911289	EX1-FS6	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	07-JUN-2024	07-JUN-2024	CK
F1 (C6 to C10) minus BTEX	07-JUN-2024	07-JUN-2024	SYS
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
F2 (C10 to C16)	07-JUN-2024	07-JUN-2024	SS
F3 (C16 to C34)	07-JUN-2024	07-JUN-2024	SS
F4 (C34 to C50)	07-JUN-2024	07-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	06-JUN-2024	06-JUN-2024	SD
Terphenyl	07-JUN-2024	07-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	07-JUN-2024	07-JUN-2024	CK
Vinyl Chloride	07-JUN-2024	07-JUN-2024	CK
Bromomethane	07-JUN-2024	07-JUN-2024	CK
Trichlorofluoromethane	07-JUN-2024	07-JUN-2024	CK
Acetone	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methylene Chloride	07-JUN-2024	07-JUN-2024	CK
Trans- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Methyl tert-butyl Ether	07-JUN-2024	07-JUN-2024	CK
1,1-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
Methyl Ethyl Ketone	07-JUN-2024	07-JUN-2024	CK
Cis- 1,2-Dichloroethylene	07-JUN-2024	07-JUN-2024	CK
Chloroform	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloroethane	07-JUN-2024	07-JUN-2024	CK
1,1,1-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Carbon Tetrachloride	07-JUN-2024	07-JUN-2024	CK
Benzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichloropropane	07-JUN-2024	07-JUN-2024	CK
Trichloroethylene	07-JUN-2024	07-JUN-2024	CK
Bromodichloromethane	07-JUN-2024	07-JUN-2024	CK
Methyl Isobutyl Ketone	07-JUN-2024	07-JUN-2024	CK
1,1,2-Trichloroethane	07-JUN-2024	07-JUN-2024	CK
Toluene	07-JUN-2024	07-JUN-2024	CK
Dibromochloromethane	07-JUN-2024	07-JUN-2024	CK
Ethylene Dibromide	07-JUN-2024	07-JUN-2024	CK
Tetrachloroethylene	07-JUN-2024	07-JUN-2024	CK
1,1,1,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK

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Time Markers

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5911289	EX1-FS6	Soil	05-JUN-2024	05-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	07-JUN-2024	07-JUN-2024	CK
Ethylbenzene	07-JUN-2024	07-JUN-2024	CK
m & p-Xylene	07-JUN-2024	07-JUN-2024	CK
Bromoform	07-JUN-2024	07-JUN-2024	CK
Styrene	07-JUN-2024	07-JUN-2024	CK
1,1,2,2-Tetrachloroethane	07-JUN-2024	07-JUN-2024	CK
o-Xylene	07-JUN-2024	07-JUN-2024	CK
1,3-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,4-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
1,2-Dichlorobenzene	07-JUN-2024	07-JUN-2024	CK
Xylenes (Total)	07-JUN-2024	07-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	07-JUN-2024	07-JUN-2024	SYS
n-Hexane	07-JUN-2024	07-JUN-2024	CK
Toluene-d8	07-JUN-2024	07-JUN-2024	CK
4-Bromofluorobenzene	07-JUN-2024	07-JUN-2024	CK
Moisture Content	06-JUN-2024	06-JUN-2024	SD

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z159035

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

AGAT Laboratories

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

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 24Z159035

Cooler Quantity: 1 large

Arrival Temperatures: 5.2 | 5.3 | 5.4

Depot Temperatures: | |

Custody Seal Intact: ☐ Yes ☐ No ☑ N/A

Notes: loose ice

Report Information:

Company: Pinchin

Contact: Alicia McDonald

Address:

Phone: Fax:

Reports to be sent to:

1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012

Site Location:

Sampled By:

AGAT Quote #: S.O. PO:

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

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company:

Contact:

Email:

Regulatory Requirements:

(Please check all applicable boxes)

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

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

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

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

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

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

Legal Sample ☐

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered Y/N	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHC	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach ☐ VOCs ☐ SVOCs ☐ OC	mSPLP: ☐ Metals	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ ABNs ☐ B(a)P ☐ PCBs	TCLP: ☐ M&I ☐ VOC	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. SP3-S1	6/5/24	P. AM PM	2	S					0	0	0										
2. SP3-S2		AM PM							0	0	0										
3. SP3-S3		AM PM							0	0	0										
4. EX1-NNWS7		AM PM							0	0											
5. EX1-NW58		AM PM							0	0											
6. EX1-NCW9		AM PM							0	0											
7. EX1-NCW10		AM PM							0	0											
8. EX1-NEWS11		AM PM							0	0											
9. DUP4		AM PM							0	0											
10. EX1-NEWS12		AM PM							0	0											
11. DUP5	6/5/24	P AM PM	2	S					0	0											

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
JMcCann JMcCann	6/5/24	4:45p.	Uberthalet	2024/06/05	16h45
	Date	Time		Date	Time
40 SWIFT/PUR	2024/06/05	16h45		Jun 6	8:45AM

Page 1 of 2

Nº: T-157205

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Document ID: DIV-78-1511_025

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Date Issued: Jan 18, 2024

AGAT Laboratories

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webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 24Z159035

Cooler Quantity:

Arrival Temperatures: Sample 1

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes:

Report Information:

Pinchin

Company:
Contact:
Address:
Phone: Fax:
Reports to be sent to:
1. Email:
2. Email:

Project Information:

Project: 2607991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company:
Contact:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

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

☐ Regulation 406
Table *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

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

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered Y/N	Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHC:	VOC	PAHs	PCBs	PCBs: Aroclors ☐	O. Reg 558 Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406 Regulation 406 SPLP Rainwater Leach: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406 Regulation 406 Characterization Package pH, ICPMS Metals, TEX, F1-F4	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX1 - FS5	6/5/24	AM/PM	2	S					6	6								
2. EX1 - FS6	6/5/24	AM/PM	2	S					6	6								
3.		AM/PM																
4.		AM/PM																
5.		AM/PM																
6.		AM/PM																
7.		AM/PM																
8.		AM/PM																
9.		AM/PM																
10.		AM/PM																
11.		AM/PM																

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J. McCann	6/5/24	445.	[illegible]	2024/06/05	16h45
[illegible]	2024/06/05	16h45	[illegible]	Thu 6	8:45

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N°: T-148117

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Document ID: DIV-79-1511.022

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Date Issued: May 30, 2023

AGAT Laboratories

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

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z160079
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jun 11, 2024
PAGES (INCLUDING COVER): 51
VERSION*: 1

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

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
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- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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

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

Certificate of Analysis

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-08

DATE REPORTED: 2024-06-11

	SAMPLE DESCRIPTION:			EX5-NW1	EX5-SW2	DUP7	EX5-SFSW1	EX5-SFSE2	EX2-SEWU7	EX2-FWSU10	DUP8
	SAMPLE TYPE:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	DATE SAMPLED:			2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00
Parameter	Unit	G / S	RDL	5917789	5917790	5917791	5917792	5917793	5917800	5917844	5917845
Antimony	µg/g	7.5	0.8	1.5	<0.8	1.2	<0.8	1.5	0.9	<0.8	2.1
Arsenic	µg/g	18	1	4	1	4	1	4	4	3	5
Barium	µg/g	390	2.0	245	24.0	203	15.4	252	163	144	172
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	0.5
Boron	µg/g	120	5	8	<5	7	<5	6	6	8	7
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.28	0.17	0.29	<0.10	0.36	0.19	0.38	0.34
Cadmium	µg/g	1.2	0.5	**1.8**	<0.5	**1.6**	<0.5	0.7	1.0	<0.5	0.8
Chromium	µg/g	160	5	33	7	37	8	40	36	36	42
Cobalt	µg/g	22	0.8	8.6	2.8	8.6	2.7	9.4	7.8	9.5	9.4
Copper	µg/g	180	1.0	73.8	8.8	81.5	7.4	46.8	51.6	29.9	84.4
Lead	µg/g	120	1	**147**	14	**124**	5	115	84	33	91
Molybdenum	µg/g	6.9	0.5	0.7	<0.5	0.7	<0.5	0.5	0.6	0.7	0.6
Nickel	µg/g	130	1	21	6	21	6	22	18	20	27
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.64	<0.50	0.67	<0.50	0.57	0.69	0.94	0.87
Vanadium	µg/g	86	2.0	35.4	15.6	38.2	16.9	47.6	36.6	41.8	42.6
Zinc	µg/g	340	5	244	22	215	17	279	192	88	145
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-08

DATE REPORTED: 2024-06-11

		SAMPLE DESCRIPTION:		EX3-FS1	EX3-FSE2	EX3-SW1	EX3-EW2	EX4-NWW1	EX4-SEW2	EX4-FSW1	EX4-FSE2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07
Parameter	**Unit**	**G / S**	**RDL**	**5917781**	**5917782**	**5917783**	**5917784**	**5917785**	**5917786**	**5917787**	**5917788**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.12
Anthracene	µg/g	0.74	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	0.21	<0.05	<0.05	0.08	<0.05	<0.05	0.10	0.24
Pyrene	µg/g	78	0.05	0.17	<0.05	<0.05	0.08	<0.05	<0.05	0.09	0.19
Benzo(a)anthracene	µg/g	0.63	0.05	0.11	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	0.12
Chrysene	µg/g	7.8	0.05	0.09	<0.05	<0.05	0.08	<0.05	<0.05	0.06	0.11
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.11	<0.05	<0.05	0.18	<0.05	<0.05	0.06	0.12
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	0.06
Benzo(a)pyrene	µg/g	0.3	0.05	0.06	<0.05	<0.05	0.12	<0.05	<0.05	<0.05	0.08
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	14.1	12.5	10.4	11.8	8.8	10.1	13.4	10.8
Surrogate	**Unit**	**Acceptable Limits**									
Naphthalene-d8	%	50-140		90	70	70	75	80	70	85	75
Acridine-d9	%	50-140		70	70	70	70	70	75	75	115
Terphenyl-d14	%	50-140		70	75	80	105	80	95	90	100

Certified By:

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

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-08

DATE REPORTED: 2024-06-11

		SAMPLE DESCRIPTION:		EX5-NW1	EX5-SW2	DUP7	EX5-SFSW1	EX5-SFSE2	EX2-SEWU7	EX2-FWSU10	DUP8
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5917789**	**5917790**	**5917791**	**5917792**	**5917793**	**5917800**	**5917844**	**5917845**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	0.07	<0.05	0.15	<0.05	<0.05	<0.05	0.05	<0.05
Fluorene	µg/g	69	0.05	0.08	<0.05	0.18	<0.05	<0.05	<0.05	0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	1.17	<0.05	2.18	0.12	0.36	0.45	0.48	0.30
Anthracene	µg/g	0.74	0.05	0.24	<0.05	0.53	<0.05	0.07	0.12	0.13	0.09
Fluoranthene	µg/g	0.69	0.05	**1.63**	<0.05	**2.98**	0.15	0.44	0.66	0.67	0.66
Pyrene	µg/g	78	0.05	1.25	<0.05	2.45	0.12	0.48	0.68	0.65	0.55
Benzo(a)anthracene	µg/g	0.63	0.05	**0.87**	<0.05	**1.66**	0.07	0.27	0.36	0.54	0.38
Chrysene	µg/g	7.8	0.05	0.78	<0.05	1.36	0.07	0.25	0.37	0.47	0.36
Benzo(b)fluoranthene	µg/g	0.78	0.05	**0.87**	<0.05	**1.74**	0.08	0.26	0.42	0.60	0.51
Benzo(k)fluoranthene	µg/g	0.78	0.05	0.47	<0.05	0.69	<0.05	0.10	0.17	0.22	0.28
Benzo(a)pyrene	µg/g	0.3	0.05	**0.74**	<0.05	**1.16**	0.06	0.16	0.29	**0.38**	**0.33**
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	0.12	<0.05	0.27	<0.05	<0.05	0.09	0.09	0.08
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	0.16	<0.05	0.43	<0.05	<0.05	0.09	0.14	0.08
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	6.2	5.3	14.8	12.8	16.6	19.5	23.2	20.0
Surrogate	**Unit**	**Acceptable Limits**									
Naphthalene-d8	%	50-140		80	75	70	70	70	80	80	85
Acridine-d9	%	50-140		105	70	75	110	90	70	115	90
Terphenyl-d14	%	50-140		75	100	70	80	95	70	75	80

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

5917781-5917845 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-08

DATE REPORTED: 2024-06-11

				SAMPLE DESCRIPTION:	EX5-NW1	EX5-SW2	DUP7	EX5-SFSW1	EX5-SFSE2	EX2-SEWU7	EX2-FWSU10	DUP8
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00
Parameter	**Unit**	**G / S**	**RDL**		**5917789**	**5917790**	**5917791**	**5917792**	**5917793**	**5917800**	**5917844**	**5917845**
Benzene	µg/g	0.17	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5		<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5		<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10		<10	<10	<10	<10	<10	16	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		<10	<10	<10	<10	<10	16	<10	<10
F3 (C16 to C34)	µg/g	1300	50		186	<50	152	<50	<50	540	91	107
F3 (C16 to C34) minus PAHs	µg/g		50		179	<50	139	<50	<50	537	87	104
F4 (C34 to C50)	µg/g	5600	50		<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50		NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1		6.2	5.3	14.8	12.8	16.6	19.5	23.2	20.0
Surrogate	**Unit**	**Acceptable Limits**										
Toluene-d8	% Recovery	60-140			92	94	123	96	92	86	92	89
Terphenyl	%	60-140			70	83	76	64	62	88	78	66

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-08 **DATE REPORTED: 2024-06-11**

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

5917789-5917845 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

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Certificate of Analysis

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-08

DATE REPORTED: 2024-06-11

				SAMPLE DESCRIPTION:	EX2-WW1	EX2-WW2	EX2-FS5	EX2-FS6	EX2-FS7	EX2-SEWL8	EX2-EWS-L9
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00
Parameter	**Unit**	**G / S**	**RDL**		**5917794**	**5917795**	**5917796**	**5917797**	**5917798**	**5917821**	**5917822**
F1 (C6 to C10)	µg/g	65	5		<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5		<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10		<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50		<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50		<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50		NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1		33.0	28.9	28.3	27.8	24.7	23.0	23.3
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	%	50-140			115	117	116	112	115	115	109
Terphenyl	%	60-140			75	86	73	74	86	82	100

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

5917794-5917822 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: 

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Certificate of Analysis

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-08

DATE REPORTED: 2024-06-11

SAMPLE DESCRIPTION:				EX2-WW1	EX2-WW2	EX2-FS5	EX2-FS6	EX2-FS7	EX2-SEWL8	EX2-EWS-L9
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00
Parameter	Unit	G / S	RDL	5917794	5917795	5917796	5917797	5917798	5917821	5917822
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popnikolof

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-08

DATE REPORTED: 2024-06-11

		SAMPLE DESCRIPTION:		EX2-WW1	EX2-WW2	EX2-FS5	EX2-FS6	EX2-FS7	EX2-SEWL8	EX2-EWS-L9
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00	2024-06-07 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5917794**	**5917795**	**5917796**	**5917797**	**5917798**	**5917821**	**5917822**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	33.0	28.9	28.3	27.8	24.7	23.0	23.3
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8	% Recovery	50-140		115	117	116	112	115	115	109
4-Bromofluorobenzene	% Recovery	50-140		105	90	84	100	101	95	98

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

5917794-5917822 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopnikolof

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

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Exceedance Summary

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Cadmium	µg/g	1.2	1.8
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Lead	µg/g	120	147
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)anthracene	µg/g	0.63	0.87
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	µg/g	0.3	0.74
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	µg/g	0.78	0.87
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	µg/g	0.69	1.63
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(a)anthracene	µg/g	0.63	0.87
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(a)pyrene	µg/g	0.3	0.74
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(b)fluoranthene	µg/g	0.78	0.87
5917789	EX5-NW1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Fluoranthene	µg/g	0.69	1.63
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Cadmium	µg/g	1.2	1.6
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Lead	µg/g	120	124
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)anthracene	µg/g	0.63	1.66
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	µg/g	0.3	1.16
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	µg/g	0.78	1.74
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	µg/g	0.69	2.98
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(a)anthracene	µg/g	0.63	1.66
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(a)pyrene	µg/g	0.3	1.16
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(b)fluoranthene	µg/g	0.78	1.74
5917791	DUP7	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Fluoranthene	µg/g	0.69	2.98
5917844	EX2-FWSU10	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	µg/g	0.3	0.38
5917844	EX2-FWSU10	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(a)pyrene	µg/g	0.3	0.38
5917844	EX2-FWSU10	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Fluoranthene	µg/g	0.69	1.10
5917845	DUP8	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	µg/g	0.3	0.33
5917845	DUP8	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(a)pyrene	µg/g	0.3	0.33

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

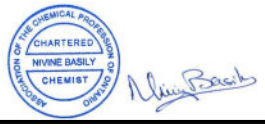
SAMPLED BY:

Soil Analysis

RPT Date: Jun 11, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	5917238		<0.8	<0.8	NA	< 0.8	117%	70%	130%	102%	80%	120%	81%	70%	130%
Arsenic	5917238		3	3	NA	< 1	113%	70%	130%	104%	80%	120%	106%	70%	130%
Barium	5917238		67.3	66.0	2.0%	< 2.0	99%	70%	130%	100%	80%	120%	100%	70%	130%
Beryllium	5917238		<0.5	<0.5	NA	< 0.5	105%	70%	130%	113%	80%	120%	120%	70%	130%
Boron	5917238		7	7	NA	< 5	92%	70%	130%	105%	80%	120%	105%	70%	130%
Boron (Hot Water Soluble)	5920042		<0.10	<0.10	NA	< 0.10	87%	60%	140%	102%	70%	130%	103%	60%	140%
Cadmium	5917238		<0.5	<0.5	NA	< 0.5	109%	70%	130%	105%	80%	120%	99%	70%	130%
Chromium	5917238		15	15	NA	< 5	101%	70%	130%	100%	80%	120%	100%	70%	130%
Cobalt	5917238		4.8	4.9	2.1%	< 0.8	97%	70%	130%	99%	80%	120%	98%	70%	130%
Copper	5917238		12.5	13.2	5.4%	< 1.0	95%	70%	130%	100%	80%	120%	95%	70%	130%
Lead	5917238		17	19	11.1%	< 1	103%	70%	130%	90%	80%	120%	89%	70%	130%
Molybdenum	5917238		<0.5	<0.5	NA	< 0.5	110%	70%	130%	103%	80%	120%	108%	70%	130%
Nickel	5917238		11	12	8.7%	< 1	102%	70%	130%	102%	80%	120%	96%	70%	130%
Selenium	5917238		<0.8	<0.8	NA	< 0.8	128%	70%	130%	119%	80%	120%	109%	70%	130%
Silver	5917238		<0.5	<0.5	NA	< 0.5	105%	70%	130%	105%	80%	120%	102%	70%	130%
Thallium	5917238		<0.5	<0.5	NA	< 0.5	104%	70%	130%	112%	80%	120%	109%	70%	130%
Uranium	5917238		0.51	<0.50	NA	< 0.50	96%	70%	130%	88%	80%	120%	89%	70%	130%
Vanadium	5917238		23.9	25.2	5.3%	< 2.0	107%	70%	130%	99%	80%	120%	105%	70%	130%
Zinc	5917238		47	50	6.2%	< 5	100%	70%	130%	103%	80%	120%	108%	70%	130%
Chromium, Hexavalent	5916711		<0.2	<0.2	NA	< 0.2	87%	70%	130%	96%	80%	120%	77%	70%	130%
Mercury	5917238		<0.10	0.10	NA	< 0.10	101%	70%	130%	99%	80%	120%	97%	70%	130%

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

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 11, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5917781	5917781	<0.05	<0.05	NA	< 0.05	91%	50%	140%	73%	50%	140%	105%	50%	140%
Acenaphthylene	5917781	5917781	<0.05	<0.05	NA	< 0.05	76%	50%	140%	73%	50%	140%	90%	50%	140%
Acenaphthene	5917781	5917781	<0.05	<0.05	NA	< 0.05	104%	50%	140%	85%	50%	140%	103%	50%	140%
Fluorene	5917781	5917781	<0.05	<0.05	NA	< 0.05	122%	50%	140%	93%	50%	140%	113%	50%	140%
Phenanthrene	5917781	5917781	0.19	0.13	NA	< 0.05	136%	50%	140%	103%	50%	140%	91%	50%	140%
Anthracene	5917781	5917781	0.05	0.07	NA	< 0.05	137%	50%	140%	93%	50%	140%	111%	50%	140%
Fluoranthene	5917781	5917781	0.21	0.21	NA	< 0.05	130%	50%	140%	93%	50%	140%	104%	50%	140%
Pyrene	5917781	5917781	0.17	0.14	NA	< 0.05	126%	50%	140%	93%	50%	140%	83%	50%	140%
Benzo(a)anthracene	5917781	5917781	0.11	0.09	NA	< 0.05	136%	50%	140%	93%	50%	140%	112%	50%	140%
Chrysene	5917781	5917781	0.09	0.07	NA	< 0.05	107%	50%	140%	78%	50%	140%	82%	50%	140%
Benzo(b)fluoranthene	5917781	5917781	0.11	0.09	NA	< 0.05	121%	50%	140%	105%	50%	140%	87%	50%	140%
Benzo(k)fluoranthene	5917781	5917781	<0.05	<0.05	NA	< 0.05	85%	50%	140%	110%	50%	140%	103%	50%	140%
Benzo(a)pyrene	5917781	5917781	0.06	0.06	NA	< 0.05	102%	50%	140%	88%	50%	140%	94%	50%	140%
Indeno(1,2,3-cd)pyrene	5917781	5917781	<0.05	<0.05	NA	< 0.05	78%	50%	140%	88%	50%	140%	68%	50%	140%
Dibenz(a,h)anthracene	5917781	5917781	<0.05	<0.05	NA	< 0.05	95%	50%	140%	83%	50%	140%	70%	50%	140%
Benzo(g,h,i)perylene	5917781	5917781	<0.05	<0.05	NA	< 0.05	90%	50%	140%	75%	50%	140%	73%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)															
Benzene	5915639		<0.02	<0.02	NA	< 0.02	92%	60%	140%	110%	60%	140%	106%	60%	140%
Toluene	5915639		<0.05	<0.05	NA	< 0.05	101%	60%	140%	97%	60%	140%	89%	60%	140%
Ethylbenzene	5915639		<0.05	<0.05	NA	< 0.05	104%	60%	140%	92%	60%	140%	91%	60%	140%
m & p-Xylene	5915639		<0.05	<0.05	NA	< 0.05	74%	60%	140%	73%	60%	140%	94%	60%	140%
o-Xylene	5915639		<0.05	<0.05	NA	< 0.05	84%	60%	140%	90%	60%	140%	90%	60%	140%
F1 (C6 to C10)	5915639		<5	<5	NA	< 5	102%	60%	140%	94%	60%	140%	100%	60%	140%
F2 (C10 to C16)	5915690		< 10	< 10	NA	< 10	95%	60%	140%	107%	60%	140%	117%	60%	140%
F3 (C16 to C34)	5915690		< 50	< 50	NA	< 50	113%	60%	140%	103%	60%	140%	117%	60%	140%
F4 (C34 to C50)	5915690		< 50	< 50	NA	< 50	70%	60%	140%	72%	60%	140%	88%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F1 (C6 to C10)	5909770		<5	<5	NA	< 5	116%	60%	140%	112%	60%	140%	86%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5909770		<0.05	<0.05	NA	< 0.05	85%	50%	140%	107%	50%	140%	99%	50%	140%
Vinyl Chloride	5909770		<0.02	<0.02	NA	< 0.02	103%	50%	140%	109%	50%	140%	95%	50%	140%
Bromomethane	5909770		<0.05	<0.05	NA	< 0.05	110%	50%	140%	102%	50%	140%	99%	50%	140%
Trichlorofluoromethane	5909770		<0.05	<0.05	NA	< 0.05	109%	50%	140%	131%	50%	140%	115%	50%	140%
Acetone	5909770		<0.50	<0.50	NA	< 0.50	92%	50%	140%	100%	50%	140%	111%	50%	140%
1,1-Dichloroethylene	5909770		<0.05	<0.05	NA	< 0.05	58%	50%	140%	81%	60%	130%	98%	50%	140%
Methylene Chloride	5909770		<0.05	<0.05	NA	< 0.05	93%	50%	140%	106%	60%	130%	96%	50%	140%
Trans- 1,2-Dichloroethylene	5909770		<0.05	<0.05	NA	< 0.05	97%	50%	140%	107%	60%	130%	96%	50%	140%
Methyl tert-butyl Ether	5909770		<0.05	<0.05	NA	< 0.05	94%	50%	140%	69%	60%	130%	94%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 11, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,1-Dichloroethane	5909770		<0.02	<0.02	NA	< 0.02	106%	50%	140%	93%	60%	130%	104%	50%	140%
Methyl Ethyl Ketone	5909770		<0.50	<0.50	NA	< 0.50	100%	50%	140%	111%	50%	140%	111%	50%	140%
Cis- 1,2-Dichloroethylene	5909770		<0.02	<0.02	NA	< 0.02	98%	50%	140%	103%	60%	130%	100%	50%	140%
Chloroform	5909770		<0.04	<0.04	NA	< 0.04	105%	50%	140%	90%	60%	130%	99%	50%	140%
1,2-Dichloroethane	5909770		<0.03	<0.03	NA	< 0.03	99%	50%	140%	96%	60%	130%	95%	50%	140%
1,1,1-Trichloroethane	5909770		<0.05	<0.05	NA	< 0.05	93%	50%	140%	91%	60%	130%	92%	50%	140%
Carbon Tetrachloride	5909770		<0.05	<0.05	NA	< 0.05	105%	50%	140%	97%	60%	130%	96%	50%	140%
Benzene	5909770		<0.02	<0.02	NA	< 0.02	94%	50%	140%	102%	60%	130%	104%	50%	140%
1,2-Dichloropropane	5909770		<0.03	<0.03	NA	< 0.03	100%	50%	140%	90%	60%	130%	103%	50%	140%
Trichloroethylene	5909770		<0.03	<0.03	NA	< 0.03	89%	50%	140%	90%	60%	130%	97%	50%	140%
Bromodichloromethane	5909770		<0.05	<0.05	NA	< 0.05	103%	50%	140%	90%	60%	130%	99%	50%	140%
Methyl Isobutyl Ketone	5909770		<0.50	<0.50	NA	< 0.50	97%	50%	140%	113%	50%	140%	91%	50%	140%
1,1,2-Trichloroethane	5909770		<0.04	<0.04	NA	< 0.04	93%	50%	140%	101%	60%	130%	101%	50%	140%
Toluene	5909770		<0.05	<0.05	NA	< 0.05	108%	50%	140%	97%	60%	130%	105%	50%	140%
Dibromochloromethane	5909770		<0.05	<0.05	NA	< 0.05	107%	50%	140%	94%	60%	130%	97%	50%	140%
Ethylene Dibromide	5909770		<0.04	<0.04	NA	< 0.04	98%	50%	140%	100%	60%	130%	99%	50%	140%
Tetrachloroethylene	5909770		<0.05	<0.05	NA	< 0.05	101%	50%	140%	103%	60%	130%	100%	50%	140%
1,1,1,2-Tetrachloroethane	5909770		<0.04	<0.04	NA	< 0.04	110%	50%	140%	91%	60%	130%	92%	50%	140%
Chlorobenzene	5909770		<0.05	<0.05	NA	< 0.05	107%	50%	140%	106%	60%	130%	107%	50%	140%
Ethylbenzene	5909770		<0.05	<0.05	NA	< 0.05	98%	50%	140%	102%	60%	130%	100%	50%	140%
m & p-Xylene	5909770		<0.05	<0.05	NA	< 0.05	126%	50%	140%	115%	60%	130%	119%	50%	140%
Bromoform	5909770		<0.05	<0.05	NA	< 0.05	96%	50%	140%	101%	60%	130%	77%	50%	140%
Styrene	5909770		<0.05	<0.05	NA	< 0.05	97%	50%	140%	100%	60%	130%	92%	50%	140%
1,1,2,2-Tetrachloroethane	5909770		<0.05	<0.05	NA	< 0.05	106%	50%	140%	99%	60%	130%	100%	50%	140%
o-Xylene	5909770		<0.05	<0.05	NA	< 0.05	98%	50%	140%	101%	60%	130%	106%	50%	140%
1,3-Dichlorobenzene	5909770		<0.05	<0.05	NA	< 0.05	95%	50%	140%	98%	60%	130%	107%	50%	140%
1,4-Dichlorobenzene	5909770		<0.05	<0.05	NA	< 0.05	97%	50%	140%	106%	60%	130%	107%	50%	140%
1,2-Dichlorobenzene	5909770		<0.05	<0.05	NA	< 0.05	101%	50%	140%	107%	60%	130%	102%	50%	140%
n-Hexane	5909770		<0.05	<0.05	NA	< 0.05	75%	50%	140%	89%	60%	130%	102%	50%	140%

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

Certified By: N Popnikolof

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917781	EX3-FS1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	10-JUN-2024	10-JUN-2024	NP
Acenaphthylene	10-JUN-2024	10-JUN-2024	NP
Acenaphthene	10-JUN-2024	10-JUN-2024	NP
Fluorene	10-JUN-2024	10-JUN-2024	NP
Phenanthrene	10-JUN-2024	10-JUN-2024	NP
Anthracene	10-JUN-2024	10-JUN-2024	NP
Fluoranthene	10-JUN-2024	10-JUN-2024	NP
Pyrene	10-JUN-2024	10-JUN-2024	NP
Benzo(a)anthracene	10-JUN-2024	10-JUN-2024	NP
Chrysene	10-JUN-2024	10-JUN-2024	NP
Benzo(b)fluoranthene	10-JUN-2024	10-JUN-2024	NP
Benzo(k)fluoranthene	10-JUN-2024	10-JUN-2024	NP
Benzo(a)pyrene	10-JUN-2024	10-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	10-JUN-2024	10-JUN-2024	NP
Dibenz(a,h)anthracene	10-JUN-2024	10-JUN-2024	NP
Benzo(g,h,i)perylene	10-JUN-2024	10-JUN-2024	NP
2-and 1-methyl Naphthalene	10-JUN-2024	10-JUN-2024	SYS
Naphthalene-d8	10-JUN-2024	10-JUN-2024	NP
Acridine-d9	10-JUN-2024	10-JUN-2024	NP
Terphenyl-d14	10-JUN-2024	10-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917782	EX3-FSE2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917782	EX3-FSE2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917783	EX3-SW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917784	EX3-EW2	Soil	07-JUN-2024	08-JUN-2024

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

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CLIENT NAME: PINCHIN LTD.

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917784	EX3-EW2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917785	EX4-NWW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917785	EX4-NWW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917786	EX4-SEW2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917787	EX4-FSW1	Soil	07-JUN-2024	08-JUN-2024

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

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917787	EX4-FSW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917788	EX4-FSE2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917788	EX4-FSE2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917789	EX5-NW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	10-JUN-2024	10-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917789	EX5-NW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	10-JUN-2024	10-JUN-2024	VB
Toluene	10-JUN-2024	10-JUN-2024	VB
Ethylbenzene	10-JUN-2024	10-JUN-2024	VB
m & p-Xylene	10-JUN-2024	10-JUN-2024	VB
o-Xylene	10-JUN-2024	10-JUN-2024	VB
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	VB
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	VB
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	11-JUN-2024	11-JUN-2024	SYS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34) minus PAHs	11-JUN-2024	11-JUN-2024	SYS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917790	EX5-SW2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	10-JUN-2024	10-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917790	EX5-SW2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	10-JUN-2024	10-JUN-2024	VB
Toluene	10-JUN-2024	10-JUN-2024	VB
Ethylbenzene	10-JUN-2024	10-JUN-2024	VB
m & p-Xylene	10-JUN-2024	10-JUN-2024	VB
o-Xylene	10-JUN-2024	10-JUN-2024	VB
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	VB
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	VB
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	11-JUN-2024	11-JUN-2024	SYS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34) minus PAHs	11-JUN-2024	11-JUN-2024	SYS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917791	DUP7	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917791	DUP7	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	10-JUN-2024	10-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917791	DUP7	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	10-JUN-2024	10-JUN-2024	VB
Toluene	10-JUN-2024	10-JUN-2024	VB
Ethylbenzene	10-JUN-2024	10-JUN-2024	VB
m & p-Xylene	10-JUN-2024	10-JUN-2024	VB
o-Xylene	10-JUN-2024	10-JUN-2024	VB
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	VB
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	VB
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	11-JUN-2024	11-JUN-2024	SYS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34) minus PAHs	11-JUN-2024	11-JUN-2024	SYS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917792	EX5-SFSW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE

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PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917792	EX5-SFSW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	10-JUN-2024	10-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	10-JUN-2024	10-JUN-2024	VB
Toluene	10-JUN-2024	10-JUN-2024	VB
Ethylbenzene	10-JUN-2024	10-JUN-2024	VB
m & p-Xylene	10-JUN-2024	10-JUN-2024	VB
o-Xylene	10-JUN-2024	10-JUN-2024	VB
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	VB
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917792	EX5-SFSW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	10-JUN-2024	10-JUN-2024	VB
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	11-JUN-2024	11-JUN-2024	SYS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34) minus PAHs	11-JUN-2024	11-JUN-2024	SYS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917793	EX5-SFSE2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	10-JUN-2024	10-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917793	EX5-SFSE2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	10-JUN-2024	10-JUN-2024	VB
Toluene	10-JUN-2024	10-JUN-2024	VB
Ethylbenzene	10-JUN-2024	10-JUN-2024	VB
m & p-Xylene	10-JUN-2024	10-JUN-2024	VB
o-Xylene	10-JUN-2024	10-JUN-2024	VB
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	VB
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	VB
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	11-JUN-2024	11-JUN-2024	SYS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34) minus PAHs	11-JUN-2024	11-JUN-2024	SYS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917793	EX5-SFSE2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	10-JUN-2024	10-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917794	EX2-WW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	CK
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons	10-JUN-2024		
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	10-JUN-2024	10-JUN-2024	CK
Vinyl Chloride	10-JUN-2024	10-JUN-2024	CK
Bromomethane	10-JUN-2024	10-JUN-2024	CK
Trichlorofluoromethane	10-JUN-2024	10-JUN-2024	CK
Acetone	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methylene Chloride	10-JUN-2024	10-JUN-2024	CK
Trans- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methyl tert-butyl Ether	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
Methyl Ethyl Ketone	10-JUN-2024	10-JUN-2024	CK
Cis- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Chloroform	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
1,1,1-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Carbon Tetrachloride	10-JUN-2024	10-JUN-2024	CK
Benzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloropropane	10-JUN-2024	10-JUN-2024	CK
Trichloroethylene	10-JUN-2024	10-JUN-2024	CK
Bromodichloromethane	10-JUN-2024	10-JUN-2024	CK
Methyl Isobutyl Ketone	10-JUN-2024	10-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917794	EX2-WW1	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
1,1,2-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Toluene	10-JUN-2024	10-JUN-2024	CK
Dibromochloromethane	10-JUN-2024	10-JUN-2024	CK
Ethylene Dibromide	10-JUN-2024	10-JUN-2024	CK
Tetrachloroethylene	10-JUN-2024	10-JUN-2024	CK
1,1,1,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
Chlorobenzene	10-JUN-2024	10-JUN-2024	CK
Ethylbenzene	10-JUN-2024	10-JUN-2024	CK
m & p-Xylene	10-JUN-2024	10-JUN-2024	CK
Bromoform	10-JUN-2024	10-JUN-2024	CK
Styrene	10-JUN-2024	10-JUN-2024	CK
1,1,2,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
o-Xylene	10-JUN-2024	10-JUN-2024	CK
1,3-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,4-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	10-JUN-2024	10-JUN-2024	SYS
n-Hexane	10-JUN-2024	10-JUN-2024	CK
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
4-Bromofluorobenzene	10-JUN-2024	10-JUN-2024	CK
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917795	EX2-WW2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	CK
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons	10-JUN-2024		
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials

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Time Markers

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917795	EX2-WW2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	10-JUN-2024	10-JUN-2024	CK
Vinyl Chloride	10-JUN-2024	10-JUN-2024	CK
Bromomethane	10-JUN-2024	10-JUN-2024	CK
Trichlorofluoromethane	10-JUN-2024	10-JUN-2024	CK
Acetone	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methylene Chloride	10-JUN-2024	10-JUN-2024	CK
Trans- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methyl tert-butyl Ether	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
Methyl Ethyl Ketone	10-JUN-2024	10-JUN-2024	CK
Cis- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Chloroform	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
1,1,1-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Carbon Tetrachloride	10-JUN-2024	10-JUN-2024	CK
Benzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloropropane	10-JUN-2024	10-JUN-2024	CK
Trichloroethylene	10-JUN-2024	10-JUN-2024	CK
Bromodichloromethane	10-JUN-2024	10-JUN-2024	CK
Methyl Isobutyl Ketone	10-JUN-2024	10-JUN-2024	CK
1,1,2-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Toluene	10-JUN-2024	10-JUN-2024	CK
Dibromochloromethane	10-JUN-2024	10-JUN-2024	CK
Ethylene Dibromide	10-JUN-2024	10-JUN-2024	CK
Tetrachloroethylene	10-JUN-2024	10-JUN-2024	CK
1,1,1,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
Chlorobenzene	10-JUN-2024	10-JUN-2024	CK
Ethylbenzene	10-JUN-2024	10-JUN-2024	CK
m & p-Xylene	10-JUN-2024	10-JUN-2024	CK
Bromoform	10-JUN-2024	10-JUN-2024	CK
Styrene	10-JUN-2024	10-JUN-2024	CK
1,1,2,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
o-Xylene	10-JUN-2024	10-JUN-2024	CK
1,3-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,4-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	10-JUN-2024	10-JUN-2024	SYS

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917795	EX2-WW2	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
n-Hexane	10-JUN-2024	10-JUN-2024	CK
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
4-Bromofluorobenzene	10-JUN-2024	10-JUN-2024	CK
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917796	EX2-FS5	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	CK
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons	10-JUN-2024		
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	10-JUN-2024	10-JUN-2024	CK
Vinyl Chloride	10-JUN-2024	10-JUN-2024	CK
Bromomethane	10-JUN-2024	10-JUN-2024	CK
Trichlorofluoromethane	10-JUN-2024	10-JUN-2024	CK
Acetone	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methylene Chloride	10-JUN-2024	10-JUN-2024	CK
Trans- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methyl tert-butyl Ether	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
Methyl Ethyl Ketone	10-JUN-2024	10-JUN-2024	CK
Cis- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Chloroform	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
1,1,1-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Carbon Tetrachloride	10-JUN-2024	10-JUN-2024	CK
Benzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloropropane	10-JUN-2024	10-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917796	EX2-FS5	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Trichloroethylene	10-JUN-2024	10-JUN-2024	CK
Bromodichloromethane	10-JUN-2024	10-JUN-2024	CK
Methyl Isobutyl Ketone	10-JUN-2024	10-JUN-2024	CK
1,1,2-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Toluene	10-JUN-2024	10-JUN-2024	CK
Dibromochloromethane	10-JUN-2024	10-JUN-2024	CK
Ethylene Dibromide	10-JUN-2024	10-JUN-2024	CK
Tetrachloroethylene	10-JUN-2024	10-JUN-2024	CK
1,1,1,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
Chlorobenzene	10-JUN-2024	10-JUN-2024	CK
Ethylbenzene	10-JUN-2024	10-JUN-2024	CK
m & p-Xylene	10-JUN-2024	10-JUN-2024	CK
Bromoform	10-JUN-2024	10-JUN-2024	CK
Styrene	10-JUN-2024	10-JUN-2024	CK
1,1,2,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
o-Xylene	10-JUN-2024	10-JUN-2024	CK
1,3-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,4-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	10-JUN-2024	10-JUN-2024	SYS
n-Hexane	10-JUN-2024	10-JUN-2024	CK
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
4-Bromofluorobenzene	10-JUN-2024	10-JUN-2024	CK
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917797	EX2-FS6	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	CK
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons	10-JUN-2024		
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917797	EX2-FS6	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	10-JUN-2024	10-JUN-2024	CK
Vinyl Chloride	10-JUN-2024	10-JUN-2024	CK
Bromomethane	10-JUN-2024	10-JUN-2024	CK
Trichlorofluoromethane	10-JUN-2024	10-JUN-2024	CK
Acetone	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methylene Chloride	10-JUN-2024	10-JUN-2024	CK
Trans- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methyl tert-butyl Ether	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
Methyl Ethyl Ketone	10-JUN-2024	10-JUN-2024	CK
Cis- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Chloroform	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
1,1,1-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Carbon Tetrachloride	10-JUN-2024	10-JUN-2024	CK
Benzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloropropane	10-JUN-2024	10-JUN-2024	CK
Trichloroethylene	10-JUN-2024	10-JUN-2024	CK
Bromodichloromethane	10-JUN-2024	10-JUN-2024	CK
Methyl Isobutyl Ketone	10-JUN-2024	10-JUN-2024	CK
1,1,2-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Toluene	10-JUN-2024	10-JUN-2024	CK
Dibromochloromethane	10-JUN-2024	10-JUN-2024	CK
Ethylene Dibromide	10-JUN-2024	10-JUN-2024	CK
Tetrachloroethylene	10-JUN-2024	10-JUN-2024	CK
1,1,1,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
Chlorobenzene	10-JUN-2024	10-JUN-2024	CK
Ethylbenzene	10-JUN-2024	10-JUN-2024	CK
m & p-Xylene	10-JUN-2024	10-JUN-2024	CK
Bromoform	10-JUN-2024	10-JUN-2024	CK
Styrene	10-JUN-2024	10-JUN-2024	CK
1,1,2,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
o-Xylene	10-JUN-2024	10-JUN-2024	CK
1,3-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,4-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	10-JUN-2024	10-JUN-2024	SYS

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917797	EX2-FS6	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
n-Hexane	10-JUN-2024	10-JUN-2024	CK
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
4-Bromofluorobenzene	10-JUN-2024	10-JUN-2024	CK
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917798	EX2-FS7	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	CK
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons	10-JUN-2024		
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	10-JUN-2024	10-JUN-2024	CK
Vinyl Chloride	10-JUN-2024	10-JUN-2024	CK
Bromomethane	10-JUN-2024	10-JUN-2024	CK
Trichlorofluoromethane	10-JUN-2024	10-JUN-2024	CK
Acetone	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methylene Chloride	10-JUN-2024	10-JUN-2024	CK
Trans- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methyl tert-butyl Ether	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
Methyl Ethyl Ketone	10-JUN-2024	10-JUN-2024	CK
Cis- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Chloroform	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
1,1,1-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Carbon Tetrachloride	10-JUN-2024	10-JUN-2024	CK
Benzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloropropane	10-JUN-2024	10-JUN-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917798	EX2-FS7	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Trichloroethylene	10-JUN-2024	10-JUN-2024	CK
Bromodichloromethane	10-JUN-2024	10-JUN-2024	CK
Methyl Isobutyl Ketone	10-JUN-2024	10-JUN-2024	CK
1,1,2-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Toluene	10-JUN-2024	10-JUN-2024	CK
Dibromochloromethane	10-JUN-2024	10-JUN-2024	CK
Ethylene Dibromide	10-JUN-2024	10-JUN-2024	CK
Tetrachloroethylene	10-JUN-2024	10-JUN-2024	CK
1,1,1,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
Chlorobenzene	10-JUN-2024	10-JUN-2024	CK
Ethylbenzene	10-JUN-2024	10-JUN-2024	CK
m & p-Xylene	10-JUN-2024	10-JUN-2024	CK
Bromoform	10-JUN-2024	10-JUN-2024	CK
Styrene	10-JUN-2024	10-JUN-2024	CK
1,1,2,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
o-Xylene	10-JUN-2024	10-JUN-2024	CK
1,3-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,4-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	10-JUN-2024	10-JUN-2024	SYS
n-Hexane	10-JUN-2024	10-JUN-2024	CK
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
4-Bromofluorobenzene	10-JUN-2024	10-JUN-2024	CK
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917800	EX2-SEWU7	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917800	EX2-SEWU7	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	10-JUN-2024	10-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917800	EX2-SEWU7	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	10-JUN-2024	10-JUN-2024	VB
Toluene	10-JUN-2024	10-JUN-2024	VB
Ethylbenzene	10-JUN-2024	10-JUN-2024	VB
m & p-Xylene	10-JUN-2024	10-JUN-2024	VB
o-Xylene	10-JUN-2024	10-JUN-2024	VB
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	VB
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	VB
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	11-JUN-2024	11-JUN-2024	SYS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34) minus PAHs	11-JUN-2024	11-JUN-2024	SYS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917821	EX2-SEWL8	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	CK
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons	10-JUN-2024		
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	10-JUN-2024	10-JUN-2024	CK
Vinyl Chloride	10-JUN-2024	10-JUN-2024	CK
Bromomethane	10-JUN-2024	10-JUN-2024	CK
Trichlorofluoromethane	10-JUN-2024	10-JUN-2024	CK
Acetone	10-JUN-2024	10-JUN-2024	CK

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917821	EX2-SEWL8	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
1,1-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methylene Chloride	10-JUN-2024	10-JUN-2024	CK
Trans- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methyl tert-butyl Ether	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
Methyl Ethyl Ketone	10-JUN-2024	10-JUN-2024	CK
Cis- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Chloroform	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
1,1,1-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Carbon Tetrachloride	10-JUN-2024	10-JUN-2024	CK
Benzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloropropane	10-JUN-2024	10-JUN-2024	CK
Trichloroethylene	10-JUN-2024	10-JUN-2024	CK
Bromodichloromethane	10-JUN-2024	10-JUN-2024	CK
Methyl Isobutyl Ketone	10-JUN-2024	10-JUN-2024	CK
1,1,2-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Toluene	10-JUN-2024	10-JUN-2024	CK
Dibromochloromethane	10-JUN-2024	10-JUN-2024	CK
Ethylene Dibromide	10-JUN-2024	10-JUN-2024	CK
Tetrachloroethylene	10-JUN-2024	10-JUN-2024	CK
1,1,1,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
Chlorobenzene	10-JUN-2024	10-JUN-2024	CK
Ethylbenzene	10-JUN-2024	10-JUN-2024	CK
m & p-Xylene	10-JUN-2024	10-JUN-2024	CK
Bromoform	10-JUN-2024	10-JUN-2024	CK
Styrene	10-JUN-2024	10-JUN-2024	CK
1,1,2,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
o-Xylene	10-JUN-2024	10-JUN-2024	CK
1,3-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,4-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	10-JUN-2024	10-JUN-2024	SYS
n-Hexane	10-JUN-2024	10-JUN-2024	CK
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
4-Bromofluorobenzene	10-JUN-2024	10-JUN-2024	CK
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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AGAT WORK ORDER: 24Z160079

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917822	EX2-EWS-L9	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	CK
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons	10-JUN-2024		
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	10-JUN-2024	10-JUN-2024	CK
Vinyl Chloride	10-JUN-2024	10-JUN-2024	CK
Bromomethane	10-JUN-2024	10-JUN-2024	CK
Trichlorofluoromethane	10-JUN-2024	10-JUN-2024	CK
Acetone	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methylene Chloride	10-JUN-2024	10-JUN-2024	CK
Trans- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Methyl tert-butyl Ether	10-JUN-2024	10-JUN-2024	CK
1,1-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
Methyl Ethyl Ketone	10-JUN-2024	10-JUN-2024	CK
Cis- 1,2-Dichloroethylene	10-JUN-2024	10-JUN-2024	CK
Chloroform	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloroethane	10-JUN-2024	10-JUN-2024	CK
1,1,1-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Carbon Tetrachloride	10-JUN-2024	10-JUN-2024	CK
Benzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichloropropane	10-JUN-2024	10-JUN-2024	CK
Trichloroethylene	10-JUN-2024	10-JUN-2024	CK
Bromodichloromethane	10-JUN-2024	10-JUN-2024	CK
Methyl Isobutyl Ketone	10-JUN-2024	10-JUN-2024	CK
1,1,2-Trichloroethane	10-JUN-2024	10-JUN-2024	CK
Toluene	10-JUN-2024	10-JUN-2024	CK
Dibromochloromethane	10-JUN-2024	10-JUN-2024	CK
Ethylene Dibromide	10-JUN-2024	10-JUN-2024	CK
Tetrachloroethylene	10-JUN-2024	10-JUN-2024	CK
1,1,1,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917822	EX2-EWS-L9	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	10-JUN-2024	10-JUN-2024	CK
Ethylbenzene	10-JUN-2024	10-JUN-2024	CK
m & p-Xylene	10-JUN-2024	10-JUN-2024	CK
Bromoform	10-JUN-2024	10-JUN-2024	CK
Styrene	10-JUN-2024	10-JUN-2024	CK
1,1,2,2-Tetrachloroethane	10-JUN-2024	10-JUN-2024	CK
o-Xylene	10-JUN-2024	10-JUN-2024	CK
1,3-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,4-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
1,2-Dichlorobenzene	10-JUN-2024	10-JUN-2024	CK
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	10-JUN-2024	10-JUN-2024	SYS
n-Hexane	10-JUN-2024	10-JUN-2024	CK
Toluene-d8	10-JUN-2024	10-JUN-2024	CK
4-Bromofluorobenzene	10-JUN-2024	10-JUN-2024	CK
Moisture Content	10-JUN-2024	10-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917844	EX2-FWSU10	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917844	EX2-FWSU10	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	10-JUN-2024	10-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	10-JUN-2024	10-JUN-2024	VB
Toluene	10-JUN-2024	10-JUN-2024	VB
Ethylbenzene	10-JUN-2024	10-JUN-2024	VB
m & p-Xylene	10-JUN-2024	10-JUN-2024	VB
o-Xylene	10-JUN-2024	10-JUN-2024	VB
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	VB
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	VB

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917844	EX2-FWSU10	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	11-JUN-2024	11-JUN-2024	SYS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34) minus PAHs	11-JUN-2024	11-JUN-2024	SYS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917845	DUP8	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-JUN-2024	11-JUN-2024	SE
Arsenic	11-JUN-2024	11-JUN-2024	SE
Barium	11-JUN-2024	11-JUN-2024	SE
Beryllium	11-JUN-2024	11-JUN-2024	SE
Boron	11-JUN-2024	11-JUN-2024	SE
Boron (Hot Water Soluble)	11-JUN-2024	11-JUN-2024	ZK
Cadmium	11-JUN-2024	11-JUN-2024	SE
Chromium	11-JUN-2024	11-JUN-2024	SE
Cobalt	11-JUN-2024	11-JUN-2024	SE
Copper	11-JUN-2024	11-JUN-2024	SE
Lead	11-JUN-2024	11-JUN-2024	SE
Molybdenum	11-JUN-2024	11-JUN-2024	SE
Nickel	11-JUN-2024	11-JUN-2024	SE
Selenium	11-JUN-2024	11-JUN-2024	SE
Silver	11-JUN-2024	11-JUN-2024	SE
Thallium	11-JUN-2024	11-JUN-2024	SE
Uranium	11-JUN-2024	11-JUN-2024	SE
Vanadium	11-JUN-2024	11-JUN-2024	SE
Zinc	11-JUN-2024	11-JUN-2024	SE
Chromium, Hexavalent	10-JUN-2024	10-JUN-2024	RC
Mercury	11-JUN-2024	11-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	11-JUN-2024	11-JUN-2024	NP
Acenaphthylene	11-JUN-2024	11-JUN-2024	NP

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AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5917845	DUP8	Soil	07-JUN-2024	08-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acenaphthene	11-JUN-2024	11-JUN-2024	NP
Fluorene	11-JUN-2024	11-JUN-2024	NP
Phenanthrene	11-JUN-2024	11-JUN-2024	NP
Anthracene	11-JUN-2024	11-JUN-2024	NP
Fluoranthene	11-JUN-2024	11-JUN-2024	NP
Pyrene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)anthracene	11-JUN-2024	11-JUN-2024	NP
Chrysene	11-JUN-2024	11-JUN-2024	NP
Benzo(b)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(k)fluoranthene	11-JUN-2024	11-JUN-2024	NP
Benzo(a)pyrene	11-JUN-2024	11-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	11-JUN-2024	11-JUN-2024	NP
Dibenz(a,h)anthracene	11-JUN-2024	11-JUN-2024	NP
Benzo(g,h,i)perylene	11-JUN-2024	11-JUN-2024	NP
2-and 1-methyl Naphthalene	11-JUN-2024	11-JUN-2024	SYS
Naphthalene-d8	11-JUN-2024	11-JUN-2024	NP
Acridine-d9	11-JUN-2024	11-JUN-2024	NP
Terphenyl-d14	11-JUN-2024	11-JUN-2024	NP
Moisture Content	10-JUN-2024	10-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	10-JUN-2024	10-JUN-2024	VB
Toluene	10-JUN-2024	10-JUN-2024	VB
Ethylbenzene	10-JUN-2024	10-JUN-2024	VB
m & p-Xylene	10-JUN-2024	10-JUN-2024	VB
o-Xylene	10-JUN-2024	10-JUN-2024	VB
Xylenes (Total)	10-JUN-2024	10-JUN-2024	SYS
F1 (C6 to C10)	10-JUN-2024	10-JUN-2024	VB
F1 (C6 to C10) minus BTEX	10-JUN-2024	10-JUN-2024	SYS
Toluene-d8	10-JUN-2024	10-JUN-2024	VB
F2 (C10 to C16)	10-JUN-2024	10-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	11-JUN-2024	11-JUN-2024	SYS
F3 (C16 to C34)	10-JUN-2024	10-JUN-2024	SS
F3 (C16 to C34) minus PAHs	11-JUN-2024	11-JUN-2024	SYS
F4 (C34 to C50)	10-JUN-2024	10-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	10-JUN-2024	10-JUN-2024	SD
Terphenyl	10-JUN-2024	10-JUN-2024	SS

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

AGAT Laboratories

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

Time Markers

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received

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

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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

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MISSISSAUGA, ONTARIO
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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160079

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

AGAT Laboratories

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

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 24216007 9

Cooler Quantity: One

Arrival Temperatures: 20.6 | 20.1 | 19.8 | 6.0 | 6.3 | 16.6

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: Loose Ice

Report Information:

Company: Pinchin

Contact:

Address:

Phone: Fax:

Reports to be sent to:

1. Email: amcdonald@pinchin.com
2. Email: jmclann@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

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

☐ Regulation 406 — Table (Indicate One)

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — (Region)

☐ Prov. Water Quality Objectives (PWQO)

☐ Other (Indicate One)

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

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

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

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

Project Information:

Project: 2167991.012

Site Location:

Sampled By:

AGAT Quote #: PO:

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

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:

Contact:

Address:

Email:

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs	PCBs: Aroclors ☐	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Regulation 406 SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX3-FS1	6/7/24	AM/PM A	1	S							X							
2. EX3-FSE2		AM/PM A	1	S							X							
3. EX3-SW1		AM/PM A	1	S							X							
4. EX3-EW2		AM/PM A	1	S							X							
5. EX4-NNW1		AM/PM A	1	S							X							
6. EX4-SEW2		AM/PM A	1	S							X							
7. EX4-FSW1		AM/PM A	1	S							X							
8. EX4-FSE2		AM/PM A	1	S							X							
9. EX5-NW1		AM/PM A	3	S			X	X	X		X							
10. EX5-SW2		AM/PM A	3	S			X	X	X		X							
11. DUP 7	6/7/24	AM/PM A	3	S			X	X	X		X							

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J. McLann	6/7/24		Left in the left drop box	2024/06/07	16h25
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Left to SWI FT to Pinchin	2024/06/07	17h00	[illegible]	[illegible]	11:00
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

Page 1 of 3

N°: T - 148115

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

Document ID: DIV-75-1011-022 Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document. Effective Date: May 30, 2023

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: Pinchin
Contact:
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

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

Regulatory Requirements:

(Please check all applicable boxes)

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

☐ Regulation 406
Table _____ *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
_____ *Indicate One*

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

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

Laboratory Use Only

Work Order #: 24216007 9
Cooler Quantity:
Arrival Temperatures: See pg 1
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☒CrVI, ☐Hg, ☐HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 558: Landfill Disposal Characterization TCLP: ☐M&I ☐VOCs ☐ABNs ☐B(a)P ☐PCBs	O. Reg 406: Regulation 406 SPLP Rainwater Leach SPLP: ☐Metals ☐VOCs ☐SVOCs	O. Reg 406: Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Corrosivity: ☐Moisture ☐Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX5-SFSW1	6/7/24	A AM PM	3	S			X	X	X		X							
2. EX5-SFSE2		A AM PM	3	S			X	X	X		X							
3. EX2-WW1		P AM PM	2	S					X	X								
4. EX2-WW2		P AM PM	2	S					X	X								
5. EX2-FS5		P AM PM	2	S					X	X								
6. EX2-FS6		P AM PM	2	S					X	X								
7. EX2-SFS7		P AM PM	2	S					X	X								
8. EX2-SFSW8		P AM PM	2	S					X	X								
9. EX2-SFSW9		R AM PM	3	S			X	X	X		X							
10. EX2-FWSW10		AM PM																
11. EX2-SFSW11		AM PM																

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J McCann	6/7/24			2024/06/07	16h25
	2024/06/7	15h22			
	Date	Time		Date	Time
		17h00			

Page 2 of 3

Nº: T-148116

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Document ID: DW-7H-1511,022

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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webearth.agatlabs.com

Chain of Custody Record

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

Report Information:
Company: Pinchin
Contact:
Address:
Phone: Fax:
Reports to be sent to:
1. Email:
2. Email:

Project Information:
Project: 2e7991.02
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:
(Please check all applicable boxes)

☐ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Regulation 406
Table _____ *Indicate One*
☐ Regulation 558
☐ CCME

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

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

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

Sample Matrix Legend

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

Laboratory Use Only
Work Order #: 24216079
Cooler Quantity:
Arrival Temperatures: See PG 2
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:
Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☑CrVI, ☑Hg, ☑HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs	PCBs: Aroclors ☐	O. Reg 558: Landfill Disposal Characterization TCLP: ☐M&I ☐VOCs ☐ABNs ☐B(a)P ☐PCBs	O. Reg 406: Regulation 406 SPLP Rainwater Leach SPLP: ☐Metals ☐VOCs ☐SVOCs	O. Reg 406: Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Corrosivity: ☐Moisture ☐Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX2-SEW47	6/7/24	P AM PM	3	S				X	X		X							
2. EX2-SEW58	1	P AM PM	2	S					X	X								
3. EX2-EW5-19	1	P AM PM	2	S					X	X								
4. EX2-FWS413	6/7/24	P AM PM	3	S				X	X		X							
5. DUP 8	6/7/24	P AM PM	3	S				X	X		X							
6.		AM PM																
7.		AM PM																
8.		AM PM																
9.		AM PM																
10.		AM PM																
11.		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
J MCCann JMC					
Samples Relinquished By (Print Name and Sign): DUP 8 IF TOPLINE 2024/06/07 AMOUNT Clay N	Date	Time	Samples Received By (Print Name and Sign):	2024/06/07	16h25
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 3 of 3

N°: T - 148114

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Document ID: DW-78-1553-022

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Sample Integrity Report

Client Name: PINCHIN LTD.

Project Number: 267991.012

Contact: Alicia McDonald

AGAT Work Order Number: 24Z160679

Consultant: NA

Client Sample ID	Bottle Type	SIR	Comment
EX2-SCW411	120ml Jar	Labeling Issues (Label Missing / Incorrect)	The sample ID on the 120mL jar is EX2 -SCW4. Proceeding as per the COC.
EX6-SW2	120ml Jar	Labeling Issues (Label Missing / Incorrect)	The sample ID on the COC is EX6-SW1. Proceeding as per the jar.

AGAT Laboratories

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

CLIENT NAME: PINCHIN LTD.
1 HINES ROAD SUITE 200
KANATA, ON K2K 3C7
(613) 592-3387

ATTENTION TO: Alicia McDonald

PROJECT: 267991.012

AGAT WORK ORDER: 24Z160837

SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

DATE REPORTED: Jun 12, 2024

PAGES (INCLUDING COVER): 31

VERSION*: 1

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

Notes

Disclaimer:

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

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

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

DATE REPORTED: 2024-06-12

		SAMPLE DESCRIPTION:		EX2-NWW415	EX2-NWE417	DUP11
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-11	2024-06-11	2024-06-11
Parameter	Unit	G / S	RDL	5924782	5924784	5924787
Antimony	µg/g		0.8	1.4	1.0	1.1
Arsenic	µg/g		1	5	3	4
Barium	µg/g		2.0	243	275	276
Beryllium	µg/g		0.5	<0.5	<0.5	<0.5
Boron	µg/g		5	6	7	7
Boron (Hot Water Soluble)	µg/g		0.10	1.37	1.28	1.46
Cadmium	µg/g		0.5	1.9	1.0	1.3
Chromium	µg/g		5	33	46	44
Cobalt	µg/g		0.8	7.7	11.2	9.9
Copper	µg/g		1.0	60.5	34.2	51.2
Lead	µg/g		1	135	97	141
Molybdenum	µg/g		0.5	1.0	0.5	0.6
Nickel	µg/g		1	22	23	23
Selenium	µg/g		0.8	<0.8	<0.8	<0.8
Silver	µg/g		0.5	<0.5	0.6	<0.5
Thallium	µg/g		0.5	<0.5	<0.5	<0.5
Uranium	µg/g		0.50	0.80	0.87	0.80
Vanadium	µg/g		2.0	33.5	46.3	39.7
Zinc	µg/g		5	233	207	237
Chromium, Hexavalent	µg/g		0.2	<0.2	<0.2	<0.2
Mercury	µg/g		0.10	<0.10	<0.10	<0.10

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

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Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

DATE REPORTED: 2024-06-12

		SAMPLE DESCRIPTION:		EX2-NWW415	EX2-NWE417	DUP11
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-11	2024-06-11	2024-06-11
Parameter	**Unit**	**G / S**	**RDL**	**5924782**	**5924784**	**5924787**
Naphthalene	µg/g		0.05	0.07	<0.05	<0.05
Acenaphthylene	µg/g		0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g		0.05	0.30	0.39	0.41
Fluorene	µg/g		0.05	0.43	0.63	0.66
Phenanthrene	µg/g		0.05	1.27	4.36	4.64
Anthracene	µg/g		0.05	0.49	1.69	1.79
Fluoranthene	µg/g		0.05	1.37	3.85	4.04
Pyrene	µg/g		0.05	1.14	3.01	3.19
Benzo(a)anthracene	µg/g		0.05	0.55	2.01	2.12
Chrysene	µg/g		0.05	0.52	1.58	1.72
Benzo(b)fluoranthene	µg/g		0.05	0.54	1.64	1.72
Benzo(k)fluoranthene	µg/g		0.05	0.21	0.50	0.65
Benzo(a)pyrene	µg/g		0.05	0.37	1.16	1.25
Indeno(1,2,3-cd)pyrene	µg/g		0.05	0.08	0.25	0.25
Dibenz(a,h)anthracene	µg/g		0.05	<0.05	<0.05	0.07
Benzo(g,h,i)perylene	µg/g		0.05	0.07	0.21	0.24
2-and 1-methyl Naphthalene	µg/g		0.05	<0.05	0.12	0.12
Moisture Content	%		0.1	20.6	18.4	20.2
Surrogate	**Unit**	**Acceptable Limits**				
Naphthalene-d8	%	50-140		79	88	88
Acridine-d9	%	50-140		95	74	93
Terphenyl-d14	%	50-140		71	84	72

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

5924782-5924787 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

DATE REPORTED: 2024-06-12

		SAMPLE DESCRIPTION:		EX1-SCW5-R6	EX1-SCW5-F4
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2024-06-11	2024-06-11
Parameter	**Unit**	**G / S**	**RDL**	**5924754**	**5924781**
Benzene	µg/g		0.02	<0.02	<0.02
Toluene	µg/g		0.05	<0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10
F3 (C16 to C34)	µg/g		50	240	<50
F4 (C34 to C50)	µg/g		50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA
Moisture Content	%		0.1	30.7	26.7
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8	% Recovery	60-140		95.8	92.5
Terphenyl	%	60-140		89	91

Certified By:

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

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

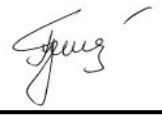
DATE REPORTED: 2024-06-12

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

5924754-5924781 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

DATE REPORTED: 2024-06-12

		SAMPLE DESCRIPTION:		EX2-NWW415	EX2-NWE417	DUP11
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-11	2024-06-11	2024-06-11
Parameter	**Unit**	**G / S**	**RDL**	**5924782**	**5924784**	**5924787**
Benzene	µg/g		0.02	<0.02	<0.02	<0.02
Toluene	µg/g		0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	31	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	31	<10	<10
F3 (C16 to C34)	µg/g		50	1150	333	334
F3 (C16 to C34) minus PAHs	µg/g		50	1140	316	316
F4 (C34 to C50)	µg/g		50	97	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA
Moisture Content	%		0.1	20.6	18.4	20.2
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	60-140		109	82.5	89.8
Terphenyl	%	60-140		120	64	70

Certified By:

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

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

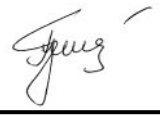
DATE RECEIVED: 2024-06-11 **DATE REPORTED: 2024-06-12**

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

5924782-5924787 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

DATE REPORTED: 2024-06-12

		SAMPLE DESCRIPTION:		EX2-NWWL16	EX2-NWEL18	EX2-FS8
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-11	2024-06-11	2024-06-11
Parameter	**Unit**	**G / S**	**RDL**	**5924783**	**5924785**	**5924786**
F1 (C6 to C10)	µg/g		5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	467	87
F4 (C34 to C50)	µg/g		50	<50	66	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA
Moisture Content	%		0.1	20.3	19.4	25.4
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	%	50-140		100	101	105
Terphenyl	%	60-140		100	63	62

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

5924783-5924786 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

DATE REPORTED: 2024-06-12

SAMPLE DESCRIPTION:				EX2-NWWL16	EX2-NWEL18	EX2-FS8
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2024-06-11	2024-06-11	2024-06-11
Parameter	Unit	G / S	RDL	5924783	5924785	5924786
Dichlorodifluoromethane	µg/g		0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g		0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05	<0.05	<0.05
Acetone	ug/g		0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02	<0.02	<0.02
Chloroform	ug/g		0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05	<0.05	<0.05
Benzene	ug/g		0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04	<0.04	<0.04
Toluene	ug/g		0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g		0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

DATE REPORTED: 2024-06-12

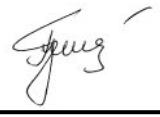
		SAMPLE DESCRIPTION:		EX2-NWWL16	EX2-NWEL18	EX2-FS8
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-11	2024-06-11	2024-06-11
Parameter	**Unit**	**G / S**	**RDL**	**5924783**	**5924785**	**5924786**
Bromoform	ug/g		0.05	<0.05	<0.05	<0.05
Styrene	ug/g		0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g		0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g		0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g		0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	20.3	19.4	25.4
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	50-140		100	101	105
4-Bromofluorobenzene	% Recovery	50-140		76	76	80

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

5924783-5924786 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z160837
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Jun 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	5924782	5924782	1.4	1.5	NA	< 0.8	138%	70%	130%	105%	80%	120%	78%	70%	130%
Arsenic	5924782	5924782	5	6	18.2%	< 1	116%	70%	130%	105%	80%	120%	101%	70%	130%
Barium	5924782	5924782	243	261	7.1%	< 2.0	127%	70%	130%	114%	80%	120%	NA	70%	130%
Beryllium	5924782	5924782	<0.5	<0.5	NA	< 0.5	94%	70%	130%	117%	80%	120%	113%	70%	130%
Boron	5924782	5924782	6	6	NA	< 5	76%	70%	130%	95%	80%	120%	92%	70%	130%
Boron (Hot Water Soluble)	5924782	5924782	1.37	1.49	8.4%	< 0.10	106%	60%	140%	105%	70%	130%	113%	60%	140%
Cadmium	5924782	5924782	1.9	1.8	NA	< 0.5	117%	70%	130%	104%	80%	120%	106%	70%	130%
Chromium	5924782	5924782	33	34	3.0%	< 5	103%	70%	130%	106%	80%	120%	NA	70%	130%
Cobalt	5924782	5924782	7.7	7.8	1.3%	< 0.8	100%	70%	130%	103%	80%	120%	96%	70%	130%
Copper	5924782	5924782	60.5	55.0	9.5%	< 1.0	99%	70%	130%	109%	80%	120%	NA	70%	130%
Lead	5924782	5924782	135	148	9.2%	< 1	110%	70%	130%	109%	80%	120%	106%	70%	130%
Molybdenum	5924782	5924782	1.0	1.1	NA	< 0.5	113%	70%	130%	110%	80%	120%	101%	70%	130%
Nickel	5924782	5924782	22	21	4.7%	< 1	107%	70%	130%	107%	80%	120%	93%	70%	130%
Selenium	5924782	5924782	<0.8	<0.8	NA	< 0.8	122%	70%	130%	109%	80%	120%	108%	70%	130%
Silver	5924782	5924782	<0.5	<0.5	NA	< 0.5	125%	70%	130%	102%	80%	120%	100%	70%	130%
Thallium	5924782	5924782	<0.5	<0.5	NA	< 0.5	109%	70%	130%	101%	80%	120%	102%	70%	130%
Uranium	5924782	5924782	0.80	0.86	NA	< 0.50	112%	70%	130%	105%	80%	120%	108%	70%	130%
Vanadium	5924782	5924782	33.5	34.0	1.5%	< 2.0	108%	70%	130%	105%	80%	120%	NA	70%	130%
Zinc	5924782	5924782	233	247	5.8%	< 5	103%	70%	130%	105%	80%	120%	NA	70%	130%
Chromium, Hexavalent	5909836		<0.2	<0.2	NA	< 0.2	85%	70%	130%	86%	80%	120%	77%	70%	130%
Mercury	5924782	5924782	<0.10	<0.10	NA	< 0.10	118%	70%	130%	104%	80%	120%	102%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.
More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.
Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5917319		<0.02	<0.02	NA	< 0.02	92%	60%	140%	110%	60%	140%	80%	60%	140%
Toluene	5917319		<0.05	<0.05	NA	< 0.05	101%	60%	140%	97%	60%	140%	86%	60%	140%
Ethylbenzene	5917319		<0.05	<0.05	NA	< 0.05	104%	60%	140%	92%	60%	140%	73%	60%	140%
m & p-Xylene	5917319		<0.05	<0.05	NA	< 0.05	74%	60%	140%	73%	60%	140%	71%	60%	140%
o-Xylene	5917319		<0.05	<0.05	NA	< 0.05	84%	60%	140%	90%	60%	140%	73%	60%	140%
F1 (C6 to C10)	5917319		<5	<5	NA	< 5	102%	60%	140%	94%	60%	140%	92%	60%	140%
F2 (C10 to C16)	5917238		< 10	< 10	NA	< 10	113%	60%	140%	80%	60%	140%	91%	60%	140%
F3 (C16 to C34)	5917238		< 50	< 50	NA	< 50	122%	60%	140%	86%	60%	140%	105%	60%	140%
F4 (C34 to C50)	5917238		< 50	< 50	NA	< 50	73%	60%	140%	91%	60%	140%	106%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
F2 (C10 to C16)	5907383		< 10	< 10	NA	< 10	124%	60%	140%	95%	60%	140%	93%	60%	140%
F3 (C16 to C34)	5907383		< 50	< 50	NA	< 50	128%	60%	140%	94%	60%	140%	102%	60%	140%
F4 (C34 to C50)	5907383		< 50	< 50	NA	< 50	85%	60%	140%	98%	60%	140%	99%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5906115		<0.04	<0.04	NA	< 0.05	88%	50%	140%	83%	50%	140%	100%	50%	140%
Acenaphthylene	5906115		<0.05	<0.05	NA	< 0.05	82%	50%	140%	85%	50%	140%	98%	50%	140%
Acenaphthene	5906115		<0.04	<0.04	NA	< 0.05	105%	50%	140%	95%	50%	140%	75%	50%	140%
Fluorene	5906115		<0.04	<0.04	NA	< 0.05	118%	50%	140%	103%	50%	140%	80%	50%	140%
Phenanthrene	5906115		<0.05	<0.05	NA	< 0.05	125%	50%	140%	110%	50%	140%	83%	50%	140%
Anthracene	5906115		<0.04	<0.04	NA	< 0.05	126%	50%	140%	103%	50%	140%	80%	50%	140%
Fluoranthene	5906115		<0.05	<0.05	NA	< 0.05	121%	50%	140%	103%	50%	140%	83%	50%	140%
Pyrene	5906115		<0.05	<0.05	NA	< 0.05	117%	50%	140%	103%	50%	140%	78%	50%	140%
Benzo(a)anthracene	5906115		<0.05	<0.05	NA	< 0.05	127%	50%	140%	110%	50%	140%	83%	50%	140%
Chrysene	5906115		<0.05	<0.05	NA	< 0.05	109%	50%	140%	78%	50%	140%	73%	50%	140%
Benzo(b)fluoranthene	5906115		<0.05	<0.05	NA	< 0.05	125%	50%	140%	98%	50%	140%	105%	50%	140%
Benzo(k)fluoranthene	5906115		<0.04	<0.04	NA	< 0.05	118%	50%	140%	90%	50%	140%	113%	50%	140%
Benzo(a)pyrene	5906115		<0.04	<0.04	NA	< 0.05	106%	50%	140%	85%	50%	140%	85%	50%	140%
Indeno(1,2,3-cd)pyrene	5906115		<0.05	<0.05	NA	< 0.05	77%	50%	140%	93%	50%	140%	90%	50%	140%
Dibenz(a,h)anthracene	5906115		<0.05	<0.05	NA	< 0.05	76%	50%	140%	85%	50%	140%	78%	50%	140%
Benzo(g,h,i)perylene	5906115		<0.05	<0.05	NA	< 0.05	78%	50%	140%	80%	50%	140%	75%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F1 (C6 to C10)	5921109		<5	<5	NA	< 5	123%	60%	140%	116%	60%	140%	86%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5921109		<0.05	<0.05	NA	< 0.05	100%	50%	140%	122%	50%	140%	83%	50%	140%
Vinyl Chloride	5921109		<0.02	<0.02	NA	< 0.02	87%	50%	140%	118%	50%	140%	103%	50%	140%
Bromomethane	5921109		<0.05	<0.05	NA	< 0.05	92%	50%	140%	101%	50%	140%	93%	50%	140%
Trichlorofluoromethane	5921109		<0.05	<0.05	NA	< 0.05	103%	50%	140%	116%	50%	140%	93%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Acetone	5921109		<0.50	<0.50	NA	< 0.50	108%	50%	140%	113%	50%	140%	111%	50%	140%
1,1-Dichloroethylene	5921109		<0.05	<0.05	NA	< 0.05	61%	50%	140%	93%	60%	130%	73%	50%	140%
Methylene Chloride	5921109		<0.05	<0.05	NA	< 0.05	94%	50%	140%	99%	60%	130%	65%	50%	140%
Trans- 1,2-Dichloroethylene	5921109		<0.05	<0.05	NA	< 0.05	70%	50%	140%	100%	60%	130%	86%	50%	140%
Methyl tert-butyl Ether	5921109		<0.05	<0.05	NA	< 0.05	64%	50%	140%	63%	60%	130%	65%	50%	140%
1,1-Dichloroethane	5921109		<0.02	<0.02	NA	< 0.02	76%	50%	140%	93%	60%	130%	79%	50%	140%
Methyl Ethyl Ketone	5921109		<0.50	<0.50	NA	< 0.50	102%	50%	140%	117%	50%	140%	107%	50%	140%
Cis- 1,2-Dichloroethylene	5921109		<0.02	<0.02	NA	< 0.02	88%	50%	140%	101%	60%	130%	105%	50%	140%
Chloroform	5921109		<0.04	<0.04	NA	< 0.04	101%	50%	140%	108%	60%	130%	94%	50%	140%
1,2-Dichloroethane	5921109		<0.03	<0.03	NA	< 0.03	96%	50%	140%	104%	60%	130%	85%	50%	140%
1,1,1-Trichloroethane	5921109		<0.05	<0.05	NA	< 0.05	70%	50%	140%	81%	60%	130%	61%	50%	140%
Carbon Tetrachloride	5921109		<0.05	<0.05	NA	< 0.05	88%	50%	140%	98%	60%	130%	61%	50%	140%
Benzene	5921109		<0.02	<0.02	NA	< 0.02	90%	50%	140%	106%	60%	130%	85%	50%	140%
1,2-Dichloropropane	5921109		<0.03	<0.03	NA	< 0.03	82%	50%	140%	83%	60%	130%	75%	50%	140%
Trichloroethylene	5921109		<0.03	<0.03	NA	< 0.03	106%	50%	140%	106%	60%	130%	89%	50%	140%
Bromodichloromethane	5921109		<0.05	<0.05	NA	< 0.05	87%	50%	140%	84%	60%	130%	63%	50%	140%
Methyl Isobutyl Ketone	5921109		<0.50	<0.50	NA	< 0.50	62%	50%	140%	98%	50%	140%	98%	50%	140%
1,1,2-Trichloroethane	5921109		<0.04	<0.04	NA	< 0.04	100%	50%	140%	106%	60%	130%	107%	50%	140%
Toluene	5921109		<0.05	<0.05	NA	< 0.05	94%	50%	140%	97%	60%	130%	98%	50%	140%
Dibromochloromethane	5921109		<0.05	<0.05	NA	< 0.05	89%	50%	140%	94%	60%	130%	71%	50%	140%
Ethylene Dibromide	5921109		<0.04	<0.04	NA	< 0.04	92%	50%	140%	89%	60%	130%	100%	50%	140%
Tetrachloroethylene	5921109		<0.05	<0.05	NA	< 0.05	93%	50%	140%	96%	60%	130%	103%	50%	140%
1,1,1,2-Tetrachloroethane	5921109		<0.04	<0.04	NA	< 0.04	74%	50%	140%	101%	60%	130%	70%	50%	140%
Chlorobenzene	5921109		<0.05	<0.05	NA	< 0.05	100%	50%	140%	107%	60%	130%	102%	50%	140%
Ethylbenzene	5921109		<0.05	<0.05	NA	< 0.05	95%	50%	140%	92%	60%	130%	96%	50%	140%
m & p-Xylene	5921109		<0.05	<0.05	NA	< 0.05	114%	50%	140%	120%	60%	130%	96%	50%	140%
Bromoform	5921109		<0.05	<0.05	NA	< 0.05	69%	50%	140%	80%	60%	130%	68%	50%	140%
Styrene	5921109		<0.05	<0.05	NA	< 0.05	86%	50%	140%	88%	60%	130%	82%	50%	140%
1,1,2,2-Tetrachloroethane	5921109		<0.05	<0.05	NA	< 0.05	96%	50%	140%	102%	60%	130%	106%	50%	140%
o-Xylene	5921109		<0.05	<0.05	NA	< 0.05	104%	50%	140%	99%	60%	130%	101%	50%	140%
1,3-Dichlorobenzene	5921109		<0.05	<0.05	NA	< 0.05	101%	50%	140%	104%	60%	130%	102%	50%	140%
1,4-Dichlorobenzene	5921109		<0.05	<0.05	NA	< 0.05	101%	50%	140%	101%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	5921109		<0.05	<0.05	NA	< 0.05	106%	50%	140%	106%	60%	130%	103%	50%	140%
n-Hexane	5921109		<0.05	<0.05	NA	< 0.05	100%	50%	140%	106%	60%	130%	99%	50%	140%

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

Certified By:

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

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Jun 12, 2024

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)										
Antimony	5924782	138%	70%	130%	105%	80%	120%	78%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.
More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.
Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

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AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924754	EX1-SCW5-R6	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	SS
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	SS
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924781	EX1-SCW5-F4	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	SS
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	SS
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924782	EX2-NWW415	Soil	11-JUN-2024	11-JUN-2024

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AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924782	EX2-NWW415	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	12-JUN-2024	12-JUN-2024	JA
Arsenic	12-JUN-2024	12-JUN-2024	JA
Barium	12-JUN-2024	12-JUN-2024	JA
Beryllium	12-JUN-2024	12-JUN-2024	JA
Boron	12-JUN-2024	12-JUN-2024	JA
Boron (Hot Water Soluble)	12-JUN-2024	12-JUN-2024	ZK
Cadmium	12-JUN-2024	12-JUN-2024	JA
Chromium	12-JUN-2024	12-JUN-2024	JA
Cobalt	12-JUN-2024	12-JUN-2024	JA
Copper	12-JUN-2024	12-JUN-2024	JA
Lead	12-JUN-2024	12-JUN-2024	JA
Molybdenum	12-JUN-2024	12-JUN-2024	JA
Nickel	12-JUN-2024	12-JUN-2024	JA
Selenium	12-JUN-2024	12-JUN-2024	JA
Silver	12-JUN-2024	12-JUN-2024	JA
Thallium	12-JUN-2024	12-JUN-2024	JA
Uranium	12-JUN-2024	12-JUN-2024	JA
Vanadium	12-JUN-2024	12-JUN-2024	JA
Zinc	12-JUN-2024	12-JUN-2024	JA
Chromium, Hexavalent	12-JUN-2024	12-JUN-2024	RC
Mercury	12-JUN-2024	12-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	12-JUN-2024	12-JUN-2024	JJ
Acenaphthylene	12-JUN-2024	12-JUN-2024	JJ
Acenaphthene	12-JUN-2024	12-JUN-2024	JJ
Fluorene	12-JUN-2024	12-JUN-2024	JJ
Phenanthrene	12-JUN-2024	12-JUN-2024	JJ
Anthracene	12-JUN-2024	12-JUN-2024	JJ
Fluoranthene	12-JUN-2024	12-JUN-2024	JJ
Pyrene	12-JUN-2024	12-JUN-2024	JJ
Benzo(a)anthracene	12-JUN-2024	12-JUN-2024	JJ
Chrysene	12-JUN-2024	12-JUN-2024	JJ
Benzo(b)fluoranthene	12-JUN-2024	12-JUN-2024	JJ
Benzo(k)fluoranthene	12-JUN-2024	12-JUN-2024	JJ
Benzo(a)pyrene	12-JUN-2024	12-JUN-2024	JJ
Indeno(1,2,3-cd)pyrene	12-JUN-2024	12-JUN-2024	JJ
Dibenz(a,h)anthracene	12-JUN-2024	12-JUN-2024	JJ

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924782	EX2-NWW415	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(g,h,i)perylene	12-JUN-2024	12-JUN-2024	JJ
2-and 1-methyl Naphthalene	12-JUN-2024	12-JUN-2024	SYS
Naphthalene-d8	12-JUN-2024	12-JUN-2024	JJ
Acridine-d9	12-JUN-2024	12-JUN-2024	JJ
Terphenyl-d14	12-JUN-2024	12-JUN-2024	JJ
Moisture Content	12-JUN-2024	12-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	12-JUN-2024	12-JUN-2024	SYS
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	SS
F3 (C16 to C34) minus PAHs	12-JUN-2024	12-JUN-2024	SYS
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924783	EX2-NWWL16	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	MK
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	MK
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	SS
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	SS
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924783	EX2-NWWL16	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	12-JUN-2024	12-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-JUN-2024	12-JUN-2024	MK
Vinyl Chloride	12-JUN-2024	12-JUN-2024	MK
Bromomethane	12-JUN-2024	12-JUN-2024	MK
Trichlorofluoromethane	12-JUN-2024	12-JUN-2024	MK
Acetone	12-JUN-2024	12-JUN-2024	MK
1,1-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Methylene Chloride	12-JUN-2024	12-JUN-2024	MK
Trans- 1,2-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Methyl tert-butyl Ether	12-JUN-2024	12-JUN-2024	MK
1,1-Dichloroethane	12-JUN-2024	12-JUN-2024	MK
Methyl Ethyl Ketone	12-JUN-2024	12-JUN-2024	MK
Cis- 1,2-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Chloroform	12-JUN-2024	12-JUN-2024	MK
1,2-Dichloroethane	12-JUN-2024	12-JUN-2024	MK
1,1,1-Trichloroethane	12-JUN-2024	12-JUN-2024	MK
Carbon Tetrachloride	12-JUN-2024	12-JUN-2024	MK
Benzene	12-JUN-2024	12-JUN-2024	MK
1,2-Dichloropropane	12-JUN-2024	12-JUN-2024	MK
Trichloroethylene	12-JUN-2024	12-JUN-2024	MK
Bromodichloromethane	12-JUN-2024	12-JUN-2024	MK
Methyl Isobutyl Ketone	12-JUN-2024	12-JUN-2024	MK
1,1,2-Trichloroethane	12-JUN-2024	12-JUN-2024	MK
Toluene	12-JUN-2024	12-JUN-2024	MK
Dibromochloromethane	12-JUN-2024	12-JUN-2024	MK
Ethylene Dibromide	12-JUN-2024	12-JUN-2024	MK
Tetrachloroethylene	12-JUN-2024	12-JUN-2024	MK
1,1,1,2-Tetrachloroethane	12-JUN-2024	12-JUN-2024	MK
Chlorobenzene	12-JUN-2024	12-JUN-2024	MK
Ethylbenzene	12-JUN-2024	12-JUN-2024	MK
m & p-Xylene	12-JUN-2024	12-JUN-2024	MK
Bromoform	12-JUN-2024	12-JUN-2024	MK
Styrene	12-JUN-2024	12-JUN-2024	MK
1,1,2,2-Tetrachloroethane	12-JUN-2024	12-JUN-2024	MK
o-Xylene	12-JUN-2024	12-JUN-2024	MK
1,3-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924783	EX2-NWWL16	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
1,4-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK
1,2-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-JUN-2024	12-JUN-2024	SYS
n-Hexane	12-JUN-2024	12-JUN-2024	MK
Toluene-d8	12-JUN-2024	12-JUN-2024	MK
4-Bromofluorobenzene	12-JUN-2024	12-JUN-2024	MK
Moisture Content	12-JUN-2024	12-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924784	EX2-NWE417	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	12-JUN-2024	12-JUN-2024	JA
Arsenic	12-JUN-2024	12-JUN-2024	JA
Barium	12-JUN-2024	12-JUN-2024	JA
Beryllium	12-JUN-2024	12-JUN-2024	JA
Boron	12-JUN-2024	12-JUN-2024	JA
Boron (Hot Water Soluble)	12-JUN-2024	12-JUN-2024	ZK
Cadmium	12-JUN-2024	12-JUN-2024	JA
Chromium	12-JUN-2024	12-JUN-2024	JA
Cobalt	12-JUN-2024	12-JUN-2024	JA
Copper	12-JUN-2024	12-JUN-2024	JA
Lead	12-JUN-2024	12-JUN-2024	JA
Molybdenum	12-JUN-2024	12-JUN-2024	JA
Nickel	12-JUN-2024	12-JUN-2024	JA
Selenium	12-JUN-2024	12-JUN-2024	JA
Silver	12-JUN-2024	12-JUN-2024	JA
Thallium	12-JUN-2024	12-JUN-2024	JA
Uranium	12-JUN-2024	12-JUN-2024	JA
Vanadium	12-JUN-2024	12-JUN-2024	JA
Zinc	12-JUN-2024	12-JUN-2024	JA
Chromium, Hexavalent	12-JUN-2024	12-JUN-2024	RC
Mercury	12-JUN-2024	12-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	12-JUN-2024	12-JUN-2024	JJ
Acenaphthylene	12-JUN-2024	12-JUN-2024	JJ

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AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924784	EX2-NWE417	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acenaphthene	12-JUN-2024	12-JUN-2024	JJ
Fluorene	12-JUN-2024	12-JUN-2024	JJ
Phenanthrene	12-JUN-2024	12-JUN-2024	JJ
Anthracene	12-JUN-2024	12-JUN-2024	JJ
Fluoranthene	12-JUN-2024	12-JUN-2024	JJ
Pyrene	12-JUN-2024	12-JUN-2024	JJ
Benzo(a)anthracene	12-JUN-2024	12-JUN-2024	JJ
Chrysene	12-JUN-2024	12-JUN-2024	JJ
Benzo(b)fluoranthene	12-JUN-2024	12-JUN-2024	JJ
Benzo(k)fluoranthene	12-JUN-2024	12-JUN-2024	JJ
Benzo(a)pyrene	12-JUN-2024	12-JUN-2024	JJ
Indeno(1,2,3-cd)pyrene	12-JUN-2024	12-JUN-2024	JJ
Dibenz(a,h)anthracene	12-JUN-2024	12-JUN-2024	JJ
Benzo(g,h,i)perylene	12-JUN-2024	12-JUN-2024	JJ
2-and 1-methyl Naphthalene	12-JUN-2024	12-JUN-2024	SYS
Naphthalene-d8	12-JUN-2024	12-JUN-2024	JJ
Acridine-d9	12-JUN-2024	12-JUN-2024	JJ
Terphenyl-d14	12-JUN-2024	12-JUN-2024	JJ
Moisture Content	12-JUN-2024	12-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	12-JUN-2024	12-JUN-2024	SYS
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	SS
F3 (C16 to C34) minus PAHs	12-JUN-2024	12-JUN-2024	SYS
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	SS

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

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Time Markers

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924785	EX2-NWEL18	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	MK
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	MK
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	SS
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	SS
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-JUN-2024	12-JUN-2024	MK
Vinyl Chloride	12-JUN-2024	12-JUN-2024	MK
Bromomethane	12-JUN-2024	12-JUN-2024	MK
Trichlorofluoromethane	12-JUN-2024	12-JUN-2024	MK
Acetone	12-JUN-2024	12-JUN-2024	MK
1,1-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Methylene Chloride	12-JUN-2024	12-JUN-2024	MK
Trans- 1,2-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Methyl tert-butyl Ether	12-JUN-2024	12-JUN-2024	MK
1,1-Dichloroethane	12-JUN-2024	12-JUN-2024	MK
Methyl Ethyl Ketone	12-JUN-2024	12-JUN-2024	MK
Cis- 1,2-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Chloroform	12-JUN-2024	12-JUN-2024	MK
1,2-Dichloroethane	12-JUN-2024	12-JUN-2024	MK
1,1,1-Trichloroethane	12-JUN-2024	12-JUN-2024	MK
Carbon Tetrachloride	12-JUN-2024	12-JUN-2024	MK
Benzene	12-JUN-2024	12-JUN-2024	MK
1,2-Dichloropropane	12-JUN-2024	12-JUN-2024	MK
Trichloroethylene	12-JUN-2024	12-JUN-2024	MK
Bromodichloromethane	12-JUN-2024	12-JUN-2024	MK
Methyl Isobutyl Ketone	12-JUN-2024	12-JUN-2024	MK
1,1,2-Trichloroethane	12-JUN-2024	12-JUN-2024	MK
Toluene	12-JUN-2024	12-JUN-2024	MK
Dibromochloromethane	12-JUN-2024	12-JUN-2024	MK
Ethylene Dibromide	12-JUN-2024	12-JUN-2024	MK
Tetrachloroethylene	12-JUN-2024	12-JUN-2024	MK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924785	EX2-NWEL18	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
1,1,1,2-Tetrachloroethane	12-JUN-2024	12-JUN-2024	MK
Chlorobenzene	12-JUN-2024	12-JUN-2024	MK
Ethylbenzene	12-JUN-2024	12-JUN-2024	MK
m & p-Xylene	12-JUN-2024	12-JUN-2024	MK
Bromoform	12-JUN-2024	12-JUN-2024	MK
Styrene	12-JUN-2024	12-JUN-2024	MK
1,1,2,2-Tetrachloroethane	12-JUN-2024	12-JUN-2024	MK
o-Xylene	12-JUN-2024	12-JUN-2024	MK
1,3-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK
1,4-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK
1,2-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-JUN-2024	12-JUN-2024	SYS
n-Hexane	12-JUN-2024	12-JUN-2024	MK
Toluene-d8	12-JUN-2024	12-JUN-2024	MK
4-Bromofluorobenzene	12-JUN-2024	12-JUN-2024	MK
Moisture Content	12-JUN-2024	12-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924786	EX2-FS8	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	MK
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	MK
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	SS
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	SS
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-JUN-2024	12-JUN-2024	MK
Vinyl Chloride	12-JUN-2024	12-JUN-2024	MK
Bromomethane	12-JUN-2024	12-JUN-2024	MK
Trichlorofluoromethane	12-JUN-2024	12-JUN-2024	MK
Acetone	12-JUN-2024	12-JUN-2024	MK

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AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924786	EX2-FS8	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
1,1-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Methylene Chloride	12-JUN-2024	12-JUN-2024	MK
Trans- 1,2-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Methyl tert-butyl Ether	12-JUN-2024	12-JUN-2024	MK
1,1-Dichloroethane	12-JUN-2024	12-JUN-2024	MK
Methyl Ethyl Ketone	12-JUN-2024	12-JUN-2024	MK
Cis- 1,2-Dichloroethylene	12-JUN-2024	12-JUN-2024	MK
Chloroform	12-JUN-2024	12-JUN-2024	MK
1,2-Dichloroethane	12-JUN-2024	12-JUN-2024	MK
1,1,1-Trichloroethane	12-JUN-2024	12-JUN-2024	MK
Carbon Tetrachloride	12-JUN-2024	12-JUN-2024	MK
Benzene	12-JUN-2024	12-JUN-2024	MK
1,2-Dichloropropane	12-JUN-2024	12-JUN-2024	MK
Trichloroethylene	12-JUN-2024	12-JUN-2024	MK
Bromodichloromethane	12-JUN-2024	12-JUN-2024	MK
Methyl Isobutyl Ketone	12-JUN-2024	12-JUN-2024	MK
1,1,2-Trichloroethane	12-JUN-2024	12-JUN-2024	MK
Toluene	12-JUN-2024	12-JUN-2024	MK
Dibromochloromethane	12-JUN-2024	12-JUN-2024	MK
Ethylene Dibromide	12-JUN-2024	12-JUN-2024	MK
Tetrachloroethylene	12-JUN-2024	12-JUN-2024	MK
1,1,1,2-Tetrachloroethane	12-JUN-2024	12-JUN-2024	MK
Chlorobenzene	12-JUN-2024	12-JUN-2024	MK
Ethylbenzene	12-JUN-2024	12-JUN-2024	MK
m & p-Xylene	12-JUN-2024	12-JUN-2024	MK
Bromoform	12-JUN-2024	12-JUN-2024	MK
Styrene	12-JUN-2024	12-JUN-2024	MK
1,1,2,2-Tetrachloroethane	12-JUN-2024	12-JUN-2024	MK
o-Xylene	12-JUN-2024	12-JUN-2024	MK
1,3-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK
1,4-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK
1,2-Dichlorobenzene	12-JUN-2024	12-JUN-2024	MK
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-JUN-2024	12-JUN-2024	SYS
n-Hexane	12-JUN-2024	12-JUN-2024	MK
Toluene-d8	12-JUN-2024	12-JUN-2024	MK
4-Bromofluorobenzene	12-JUN-2024	12-JUN-2024	MK
Moisture Content	12-JUN-2024	12-JUN-2024	SD

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AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924787	DUP11	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	12-JUN-2024	12-JUN-2024	JA
Arsenic	12-JUN-2024	12-JUN-2024	JA
Barium	12-JUN-2024	12-JUN-2024	JA
Beryllium	12-JUN-2024	12-JUN-2024	JA
Boron	12-JUN-2024	12-JUN-2024	JA
Boron (Hot Water Soluble)	12-JUN-2024	12-JUN-2024	ZK
Cadmium	12-JUN-2024	12-JUN-2024	JA
Chromium	12-JUN-2024	12-JUN-2024	JA
Cobalt	12-JUN-2024	12-JUN-2024	JA
Copper	12-JUN-2024	12-JUN-2024	JA
Lead	12-JUN-2024	12-JUN-2024	JA
Molybdenum	12-JUN-2024	12-JUN-2024	JA
Nickel	12-JUN-2024	12-JUN-2024	JA
Selenium	12-JUN-2024	12-JUN-2024	JA
Silver	12-JUN-2024	12-JUN-2024	JA
Thallium	12-JUN-2024	12-JUN-2024	JA
Uranium	12-JUN-2024	12-JUN-2024	JA
Vanadium	12-JUN-2024	12-JUN-2024	JA
Zinc	12-JUN-2024	12-JUN-2024	JA
Chromium, Hexavalent	12-JUN-2024	12-JUN-2024	RC
Mercury	12-JUN-2024	12-JUN-2024	JA

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	12-JUN-2024	12-JUN-2024	NP
Acenaphthylene	12-JUN-2024	12-JUN-2024	NP
Acenaphthene	12-JUN-2024	12-JUN-2024	NP
Fluorene	12-JUN-2024	12-JUN-2024	NP
Phenanthrene	12-JUN-2024	12-JUN-2024	NP
Anthracene	12-JUN-2024	12-JUN-2024	NP
Fluoranthene	12-JUN-2024	12-JUN-2024	NP
Pyrene	12-JUN-2024	12-JUN-2024	NP
Benzo(a)anthracene	12-JUN-2024	12-JUN-2024	NP
Chrysene	12-JUN-2024	12-JUN-2024	NP
Benzo(b)fluoranthene	12-JUN-2024	12-JUN-2024	NP
Benzo(k)fluoranthene	12-JUN-2024	12-JUN-2024	NP
Benzo(a)pyrene	12-JUN-2024	12-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	12-JUN-2024	12-JUN-2024	NP
Dibenz(a,h)anthracene	12-JUN-2024	12-JUN-2024	NP

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AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5924787	DUP11	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(g,h,i)perylene	12-JUN-2024	12-JUN-2024	NP
2-and 1-methyl Naphthalene	12-JUN-2024	12-JUN-2024	SYS
Naphthalene-d8	12-JUN-2024	12-JUN-2024	NP
Acridine-d9	12-JUN-2024	12-JUN-2024	NP
Terphenyl-d14	12-JUN-2024	12-JUN-2024	NP
Moisture Content	12-JUN-2024	12-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	12-JUN-2024	12-JUN-2024	SYS
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	SS
F3 (C16 to C34) minus PAHs	12-JUN-2024	12-JUN-2024	SYS
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	SS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z160837

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

AGAT Laboratories

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Mississauga, Ontario L4Z 1Y2
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Have feedback? Scan here for a quick survey!

RUSH

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 24Z160837

Cooler Quantity: one - no ice packs

Arrival Temperatures: 19.5 | 19.3 | 19.4

~~Depot Temperatures~~: 2.5 | 3.9 | 3.8

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: BIT

Report Information:

Company: Pinchin

Contact: Alicia McDonald

Address:

Phone: Fax:

Reports to be sent to:

1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012

Site Location:

Sampled By:

AGAT Quote #: PO:

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

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company:

Contact:

Address:

Email:

Regulatory Requirements:

(Please check all applicable boxes)

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

☐ Regulation 406
Table — *Indicate One*: ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

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

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

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

Legal Sample ☐

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach	O. Reg 406: mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP:	O. Reg 558: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX1-SCW5-R16	6/11/24	A	2						X												
2. EX1-SCW5-F4		A	2						X												
3. Ex2-NNW415		A						X	X		X										
4. Ex2-NNWL16		A							X	X											
5. Ex2-NWE417		A						X	X		X										
6. Ex2-NWEL18		A							X	X											
7. Ex2-FS8	↓	A							X	X											
8. DUP11	6/11/24	A						X	X	~~X~~	X										
9.											NOUM										
10.																					
11.																					

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J. McCann	6/11/24	12:15	C. Griffiths	06/11/24	12h05
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
C. to Pinch	06/11/24	15h00		Jun 12	8:40AM
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

Page 1 of 1

Nº: T-157207

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

Document ID: DIV-75-1511-023

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Date Issued: Jan 18, 2024

AGAT Laboratories

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z161229
TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor
DATE REPORTED: Jun 12, 2024
PAGES (INCLUDING COVER): 9
VERSION*: 1

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

Notes

Disclaimer:

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

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z161229

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

DATE REPORTED: 2024-06-12

SAMPLE DESCRIPTION:				EX1-ECW2 R1	EX1-ECW2 R2	EX1-ECW2 R3	EX1-ECW2 R4	EX1-ECW2 FS1	EX1-ECW2 FS2
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-11 12:00	2024-06-11 12:00	2024-06-11 12:00	2024-06-11 12:00	2024-06-11 12:00	2024-06-11 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5925103**	**5925174**	**5925175**	**5925176**	**5925177**	**5925178**
Benzene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5	<5	14	131	<5	7
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	14	131	<5	7
F2 (C10 to C16)	µg/g		10	<10	48	272	817	<10	115
F3 (C16 to C34)	µg/g		50	102	92	2490	<50	<50	771
F4 (C34 to C50)	µg/g		50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	27.6	22.8	26.7	12.3	22.8	19.2
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	60-140		106	106	109	110	94	87
Terphenyl	%	60-140		96	78	90	71	75	81

Certified By:

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z161229

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-11

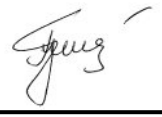
DATE REPORTED: 2024-06-12

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

5925103-5925178 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

AGAT Laboratories

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CANADA L4Z 1Y2
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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z161229

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5917319		<0.02	<0.02	NA	< 0.02	92%	60%	140%	110%	60%	140%	80%	60%	140%
Toluene	5917319		<0.05	<0.05	NA	< 0.05	101%	60%	140%	97%	60%	140%	86%	60%	140%
Ethylbenzene	5917319		<0.05	<0.05	NA	< 0.05	104%	60%	140%	92%	60%	140%	73%	60%	140%
m & p-Xylene	5917319		<0.05	<0.05	NA	< 0.05	74%	60%	140%	73%	60%	140%	71%	60%	140%
o-Xylene	5917319		<0.05	<0.05	NA	< 0.05	84%	60%	140%	90%	60%	140%	73%	60%	140%
F1 (C6 to C10)	5917319		<5	<5	NA	< 5	102%	60%	140%	94%	60%	140%	92%	60%	140%
F2 (C10 to C16)	5913732		< 10	< 10	NA	< 10	94%	60%	140%	96%	60%	140%	94%	60%	140%
F3 (C16 to C34)	5913732		< 50	< 50	NA	< 50	115%	60%	140%	112%	60%	140%	117%	60%	140%
F4 (C34 to C50)	5913732		< 50	< 50	NA	< 50	72%	60%	140%	100%	60%	140%	95%	60%	140%

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

Certified By:

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TEL (905)712-5100
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http://www.agatlabs.com

Time Markers

AGAT WORK ORDER: 24Z161229

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5925103	EX1-ECW2 R1	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	CA
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	CA
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5925174	EX1-ECW2 R2	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	CA
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	CA
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5925175	EX1-ECW2 R3	Soil	11-JUN-2024	11-JUN-2024

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

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Time Markers

AGAT WORK ORDER: 24Z161229

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5925175	EX1-ECW2 R3	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	CA
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	CA
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5925176	EX1-ECW2 R4	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	CA
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	CA
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5925177	EX1-ECW2 FS1	Soil	11-JUN-2024	11-JUN-2024

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Time Markers

AGAT WORK ORDER: 24Z161229

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5925177	EX1-ECW2 FS1	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	CA
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	CA
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5925178	EX1-ECW2 FS2	Soil	11-JUN-2024	11-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-JUN-2024	12-JUN-2024	VB
Toluene	12-JUN-2024	12-JUN-2024	VB
Ethylbenzene	12-JUN-2024	12-JUN-2024	VB
m & p-Xylene	12-JUN-2024	12-JUN-2024	VB
o-Xylene	12-JUN-2024	12-JUN-2024	VB
Xylenes (Total)	12-JUN-2024	12-JUN-2024	SYS
F1 (C6 to C10)	12-JUN-2024	12-JUN-2024	VB
F1 (C6 to C10) minus BTEX	12-JUN-2024	12-JUN-2024	SYS
Toluene-d8	12-JUN-2024	12-JUN-2024	VB
F2 (C10 to C16)	12-JUN-2024	12-JUN-2024	CA
F3 (C16 to C34)	12-JUN-2024	12-JUN-2024	CA
F4 (C34 to C50)	12-JUN-2024	12-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	12-JUN-2024	12-JUN-2024	SD
Terphenyl	12-JUN-2024	12-JUN-2024	CA

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z161229

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

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webearth.agatlabs.com

Chain of Custody Record

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

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: JMccann@pinchin.com

Project Information:

Project: 267991.002
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

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

Regulatory Requirements:

(Please check all applicable boxes)

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

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

☐ Regulation 558
☐ CCME

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

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

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 24Z161229
Cooler Quantity: one - no ice packs
Arrival Temperatures:
Depot Temperatures: 4.2 | 4.5 | 4.9
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: L IJ

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach	O. Reg 406: mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX1-ECW2 R1	6/11/24	P AM PM	2	S					X											
2. EX1-ECW2 R2	"	P AM PM	2	S					X											
3. EX1-ECW2 R3	"	P AM PM	2	S					X											
4. EX1-ECW2 R4	"	P AM PM	2	S					X											
5. EX1-ECW2 FS1	"	P AM PM	2	S					X											
6. EX1-ECW2 FS2	6/11/24	P AM PM	2	S					X											
7.		AM PM																		
8.		AM PM																		
9.		AM PM																		
10.		AM PM																		
11.		AM PM																		

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J. McCann	6/11/24			06/11/24	16h
C to pick up	06/11/24	17h00		12	8:40

Page 1 of 1

N°: T-157208

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

Document ID: DM-78-1511-023

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Date Issued: Jan 18, 2024

AGAT Laboratories

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http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z162868
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Jun 18, 2024
PAGES (INCLUDING COVER): 13
VERSION*: 1

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

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
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- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-14

DATE REPORTED: 2024-06-18

SAMPLE DESCRIPTION:				EX1-SNC5-R6	EX1-SWC5-R7	EX1-SWC5-R8	EX1-SWC5-R9	EX1-SWC5-R10	EX1-SWC5-R11	EX1-SWC5-FS4	EX1-SWC5-FS5
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-14	2024-06-14	2024-06-14	2024-06-14	2024-06-14	2024-06-14	2024-06-14	2024-06-14
Parameter	**Unit**	**G / S**	**RDL**	**5936741**	**5936742**	**5936743**	**5936744**	**5936745**	**5936746**	**5936747**	**5936748**
Benzene	µg/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	<50	<50	492	<50	508	<50	<50
F4 (C34 to C50)	µg/g		50	<50	<50	<50	<50	<50	83	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	26.5	14.2	16.5	21.0	11.0	14.0	22.7	21.6
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	60-140		103	71	108	70	105	99	77	98
Terphenyl	%	60-140		84	69	75	93	91	86	76	82

Certified By:

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-14

DATE REPORTED: 2024-06-18

		SAMPLE DESCRIPTION:		EX1-SWC5-FS6	EX1-SWC5-FS7	DUP13
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-14	2024-06-14	2024-06-14
Parameter	**Unit**	**G / S**	**RDL**	**5936749**	**5936750**	**5936751**
Benzene	µg/g		0.02	<0.02	<0.02	<0.02
Toluene	µg/g		0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	<50	<50
F4 (C34 to C50)	µg/g		50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA
Moisture Content	%		0.1	26.7	27.4	25.6
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	60-140		120	99	113
Terphenyl	%	60-140		90	91	79

Certified By:



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

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-14

DATE REPORTED: 2024-06-18

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

5936741-5936751 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

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

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 18, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5936751	5936751	<0.02	<0.02	NA	< 0.02	106%	60%	140%	107%	60%	140%	74%	60%	140%
Toluene	5936751	5936751	<0.05	<0.05	NA	< 0.05	109%	60%	140%	99%	60%	140%	71%	60%	140%
Ethylbenzene	5936751	5936751	<0.05	<0.05	NA	< 0.05	102%	60%	140%	109%	60%	140%	71%	60%	140%
m & p-Xylene	5936751	5936751	<0.05	<0.05	NA	< 0.05	95%	60%	140%	105%	60%	140%	73%	60%	140%
o-Xylene	5936751	5936751	<0.05	<0.05	NA	< 0.05	94%	60%	140%	93%	60%	140%	72%	60%	140%
F1 (C6 to C10)	5936751	5936751	<5	<5	NA	< 5	101%	60%	140%	94%	60%	140%	92%	60%	140%
F2 (C10 to C16)	5936741	5936741	<10	<10	NA	< 10	104%	60%	140%	118%	60%	140%	119%	60%	140%
F3 (C16 to C34)	5936741	5936741	<50	<50	NA	< 50	111%	60%	140%	122%	60%	140%	118%	60%	140%
F4 (C34 to C50)	5936741	5936741	<50	<50	NA	< 50	103%	60%	140%	107%	60%	140%	90%	60%	140%

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

Certified By: N Popnikolof

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

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AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936741	EX1-SNC5-R6	Soil	14-JUN-2024	14-JUN-2024

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

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

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936742	EX1-SWC5-R7	Soil	14-JUN-2024	14-JUN-2024

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

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

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936743	EX1-SWC5-R8	Soil	14-JUN-2024	14-JUN-2024

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AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936743	EX1-SWC5-R8	Soil	14-JUN-2024	14-JUN-2024

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

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

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936744	EX1-SWC5-R9	Soil	14-JUN-2024	14-JUN-2024

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

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

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936745	EX1-SWC5-R10	Soil	14-JUN-2024	14-JUN-2024

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AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936745	EX1-SWC5-R10	Soil	14-JUN-2024	14-JUN-2024

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

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

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936746	EX1-SWC5-R11	Soil	14-JUN-2024	14-JUN-2024

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

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

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936747	EX1-SWC5-FS4	Soil	14-JUN-2024	14-JUN-2024

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AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936747	EX1-SWC5-FS4	Soil	14-JUN-2024	14-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	18-JUN-2024	18-JUN-2024	VB
Toluene	18-JUN-2024	18-JUN-2024	VB
Ethylbenzene	18-JUN-2024	18-JUN-2024	VB
m & p-Xylene	18-JUN-2024	18-JUN-2024	VB
o-Xylene	18-JUN-2024	18-JUN-2024	VB
Xylenes (Total)	18-JUN-2024	18-JUN-2024	SYS
F1 (C6 to C10)	18-JUN-2024	18-JUN-2024	VB
F1 (C6 to C10) minus BTEX	18-JUN-2024	18-JUN-2024	SYS
Toluene-d8	18-JUN-2024	18-JUN-2024	VB
F2 (C10 to C16)	17-JUN-2024	17-JUN-2024	CA
F3 (C16 to C34)	17-JUN-2024	17-JUN-2024	CA
F4 (C34 to C50)	17-JUN-2024	17-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	17-JUN-2024	17-JUN-2024	SD
Terphenyl	17-JUN-2024	17-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936748	EX1-SWC5-FS5	Soil	14-JUN-2024	14-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	18-JUN-2024	18-JUN-2024	VB
Toluene	18-JUN-2024	18-JUN-2024	VB
Ethylbenzene	18-JUN-2024	18-JUN-2024	VB
m & p-Xylene	18-JUN-2024	18-JUN-2024	VB
o-Xylene	18-JUN-2024	18-JUN-2024	VB
Xylenes (Total)	18-JUN-2024	18-JUN-2024	SYS
F1 (C6 to C10)	18-JUN-2024	18-JUN-2024	VB
F1 (C6 to C10) minus BTEX	18-JUN-2024	18-JUN-2024	SYS
Toluene-d8	18-JUN-2024	18-JUN-2024	VB
F2 (C10 to C16)	17-JUN-2024	17-JUN-2024	CA
F3 (C16 to C34)	17-JUN-2024	17-JUN-2024	CA
F4 (C34 to C50)	17-JUN-2024	17-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	17-JUN-2024	17-JUN-2024	SD
Terphenyl	17-JUN-2024	17-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936749	EX1-SWC5-FS6	Soil	14-JUN-2024	14-JUN-2024

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AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936749	EX1-SWC5-FS6	Soil	14-JUN-2024	14-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	18-JUN-2024	18-JUN-2024	VB
Toluene	18-JUN-2024	18-JUN-2024	VB
Ethylbenzene	18-JUN-2024	18-JUN-2024	VB
m & p-Xylene	18-JUN-2024	18-JUN-2024	VB
o-Xylene	18-JUN-2024	18-JUN-2024	VB
Xylenes (Total)	18-JUN-2024	18-JUN-2024	SYS
F1 (C6 to C10)	18-JUN-2024	18-JUN-2024	VB
F1 (C6 to C10) minus BTEX	18-JUN-2024	18-JUN-2024	SYS
Toluene-d8	18-JUN-2024	18-JUN-2024	VB
F2 (C10 to C16)	17-JUN-2024	17-JUN-2024	CA
F3 (C16 to C34)	17-JUN-2024	17-JUN-2024	CA
F4 (C34 to C50)	17-JUN-2024	17-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	17-JUN-2024	17-JUN-2024	SD
Terphenyl	17-JUN-2024	17-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936750	EX1-SWC5-FS7	Soil	14-JUN-2024	14-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	18-JUN-2024	18-JUN-2024	VB
Toluene	18-JUN-2024	18-JUN-2024	VB
Ethylbenzene	18-JUN-2024	18-JUN-2024	VB
m & p-Xylene	18-JUN-2024	18-JUN-2024	VB
o-Xylene	18-JUN-2024	18-JUN-2024	VB
Xylenes (Total)	18-JUN-2024	18-JUN-2024	SYS
F1 (C6 to C10)	18-JUN-2024	18-JUN-2024	VB
F1 (C6 to C10) minus BTEX	18-JUN-2024	18-JUN-2024	SYS
Toluene-d8	18-JUN-2024	18-JUN-2024	VB
F2 (C10 to C16)	17-JUN-2024	17-JUN-2024	CA
F3 (C16 to C34)	17-JUN-2024	17-JUN-2024	CA
F4 (C34 to C50)	17-JUN-2024	17-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	17-JUN-2024	17-JUN-2024	SD
Terphenyl	17-JUN-2024	17-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936751	DUP13	Soil	14-JUN-2024	14-JUN-2024

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AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5936751	DUP13	Soil	14-JUN-2024	14-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	18-JUN-2024	18-JUN-2024	VB
Toluene	18-JUN-2024	18-JUN-2024	VB
Ethylbenzene	18-JUN-2024	18-JUN-2024	VB
m & p-Xylene	18-JUN-2024	18-JUN-2024	VB
o-Xylene	18-JUN-2024	18-JUN-2024	VB
Xylenes (Total)	18-JUN-2024	18-JUN-2024	SYS
F1 (C6 to C10)	18-JUN-2024	18-JUN-2024	VB
F1 (C6 to C10) minus BTEX	18-JUN-2024	18-JUN-2024	SYS
Toluene-d8	18-JUN-2024	18-JUN-2024	VB
F2 (C10 to C16)	17-JUN-2024	17-JUN-2024	CA
F3 (C16 to C34)	17-JUN-2024	17-JUN-2024	CA
F4 (C34 to C50)	17-JUN-2024	17-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	17-JUN-2024	17-JUN-2024	SD
Terphenyl	17-JUN-2024	17-JUN-2024	CA

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z162868

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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Have feedback? Scan here for a quick survey!

RUSH!

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Chain of Custody Record

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

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 2167991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

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

Regulatory Requirements:

(Please check all applicable boxes)

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

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

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

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

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 24216286 8

Cooler Quantity: one - no ice packs
Arrival Temperatures: 23.0 | 23.2 | 23.9
~~Depot Temperatures~~: 3.9 | 4.0 | 4.2
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: BT

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: ~~BTEX~~ F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ DOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX1-SWC5-R6	6/14/24	P AM/PM	2	S					X									
2. EX1-SWC5-R7		P AM/PM	2	S					X									
3. EX1-SWC5-R8		P AM/PM	2	S					X									
4. EX1-SWC5-R9		P AM/PM	2	S					X									
5. EX1-SWC5-R10		P AM/PM	2	S					X									
6. EX1-SWC5-R11		P AM/PM	2	S					X									
7. EX1-SWC5-F54		R AM/PM	2	S					X									
8. EX1-SWC5-F55		P AM/PM	2	S					X									
9. EX1-SWC5-F56		P AM/PM	2	S					X									
10. EX1-SWC5-F57		P AM/PM	2	S					X									
11. DUP 13	6/14/24	R AM/PM	2	S					X									

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
JMcCann	6/14/24	3:55		06/14/24	15h57
CC to Pinch	06/14/24	19h00		Jun 15	10:55A

Page ____ of ____

№: T-157209

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

Document ID: DIV-75-151-0023

Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document.

Date Issued: Jan 18, 2024

AGAT Laboratories

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

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z163653
SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor
DATE REPORTED: Jun 20, 2024
PAGES (INCLUDING COVER): 68
VERSION*: 2

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

Notes

VERSION 2:V2 issued 2024-06-20. Complete report. Supersedes previous version. (LB)
V1 issued 2024-06-19. Partial report with Organics only. (LB)

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
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- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
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- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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

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

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Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

SAMPLE DESCRIPTION:				EX1-SWS1	EX1-SWUS2	EX1-SWLS3	TP1-NWS1	TP1-SWS2	TP1-EFS1	TP1-WFS2	TP2-NW1
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00
Parameter	Unit	G / S	RDL	5943411	5943412	5943413	5943414	5943415	5943416	5943417	5943418
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	2	3	2	4	1	2	3	3
Barium	µg/g	390	2.0	64.8	86.4	137	70.0	40.0	83.7	72.1	77.6
Beryllium	µg/g	5	0.5	<0.5	0.6	<0.5	0.5	<0.5	<0.5	0.5	<0.5
Boron	µg/g	120	5	<5	6	<5	7	<5	<5	7	7
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.27	0.31	0.29	<0.10	<0.10	<0.10	<0.10	0.72
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	37	34	33	21	22	33	27	28
Cobalt	µg/g	22	0.8	9.3	7.7	8.2	7.9	5.0	7.5	8.2	7.2
Copper	µg/g	180	1.0	10.0	27.9	26.1	19.5	5.4	11.0	18.8	27.7
Lead	µg/g	120	1	6	28	14	14	3	5	18	24
Molybdenum	µg/g	6.9	0.5	<0.5	0.6	<0.5	1.0	<0.5	<0.5	1.3	1.3
Nickel	µg/g	130	1	16	19	19	16	11	16	16	16
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	1.17	0.81	0.70	0.63	0.53	0.71	0.74	0.89
Vanadium	µg/g	86	2.0	40.3	35.4	35.4	30.6	23.8	37.8	34.6	34.6
Zinc	µg/g	340	5	46	99	85	48	31	33	44	71
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:



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

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

SAMPLE DESCRIPTION:				TP2-SW2	TP2-WFS1	TP2-EFS2	TP3-NW1	TP3-EW2	TP3-NFS1	TP3-SFS2	TP4-NFS1
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00
Parameter	Unit	G / S	RDL	5943419	5943420	5943421	5943422	5943423	5943424	5943425	5943426
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	2	3	2	5	4	5	5	2
Barium	µg/g	390	2.0	72.5	67.8	52.8	67.5	66.4	66.2	77.8	106
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	0.5	0.5	0.5	0.6	<0.5
Boron	µg/g	120	5	7	<5	<5	8	9	8	9	7
Boron (Hot Water Soluble)	µg/g	1.5	0.10	1.24	0.42	0.61	<0.10	<0.10	0.12	<0.10	0.49
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	26	31	28	16	19	18	19	20
Cobalt	µg/g	22	0.8	6.4	6.9	5.9	6.1	7.0	6.8	8.1	6.0
Copper	µg/g	180	1.0	24.3	8.6	6.7	13.2	16.5	14.1	16.5	24.3
Lead	µg/g	120	1	19	11	10	9	12	13	11	27
Molybdenum	µg/g	6.9	0.5	1.0	<0.5	<0.5	0.8	0.9	2.0	3.9	0.8
Nickel	µg/g	130	1	16	14	13	12	13	13	15	13
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.82	0.54	0.52	0.51	0.60	0.63	0.69	0.73
Vanadium	µg/g	86	2.0	36.0	37.2	27.0	26.8	29.7	30.3	31.3	26.1
Zinc	µg/g	340	5	59	46	45	35	41	39	40	53
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:



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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

SAMPLE DESCRIPTION:				TP4-SFS2	TP4-EWS1	TP4-WWS2	TP5-SWS1	TP5-EWS2	TP5-EFS1	TP5-WFS2	TP6-NFS1
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00
Parameter	Unit	G / S	RDL	5943427	5943428	5943430	5943431	5943432	5943433	5943434	5943435
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	4	2	3	5	3	2	2
Barium	µg/g	390	2.0	85.2	81.6	83.8	83.1	74.1	80.9	74.0	49.6
Beryllium	µg/g	5	0.5	0.6	0.6	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Boron	µg/g	120	5	11	8	6	7	10	6	6	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	<0.10	<0.10	0.49	1.00	<0.10	0.80	0.79	0.44
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	19	17	23	26	18	25	24	27
Cobalt	µg/g	22	0.8	7.6	7.6	6.9	6.9	7.4	8.2	6.4	6.6
Copper	µg/g	180	1.0	18.8	17.9	19.1	24.5	15.4	32.2	22.1	11.6
Lead	µg/g	120	1	13	10	20	28	12	22	18	11
Molybdenum	µg/g	6.9	0.5	0.9	1.3	0.6	1.9	1.3	0.9	0.9	0.9
Nickel	µg/g	130	1	17	14	14	16	14	16	14	15
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.61	0.61	0.83	1.03	0.73	1.04	0.94	0.55
Vanadium	µg/g	86	2.0	29.0	29.4	29.8	29.5	32.2	28.7	27.8	31.0
Zinc	µg/g	340	5	39	39	46	117	42	69	61	43
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	0.13	<0.10	<0.10	<0.10	<0.10

Certified By:



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

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Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

SAMPLE DESCRIPTION:				TP6-SFS2	TP6-WWS1	TP6-SWS2	DUP15	DUP16	TP7-WWS1	TP7-NWS2	TP7-EFS1
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00
Parameter	Unit	G / S	RDL	5943436	5943437	5943438	5943439	5943440	5943441	5943442	5943443
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	7	5	4	4	4	3	4	2
Barium	µg/g	390	2.0	113	73.6	69.4	61.1	66.1	63.5	69.6	56.0
Beryllium	µg/g	5	0.5	0.6	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	11	8	7	7	6	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.11	<0.10	<0.10	<0.10	<0.10	0.23	0.15	0.21
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	25	22	23	17	22	23	19	20
Cobalt	µg/g	22	0.8	15.7	8.4	9.0	7.0	7.9	7.5	7.3	6.6
Copper	µg/g	180	1.0	45.7	19.1	19.4	14.7	17.0	18.7	19.3	17.1
Lead	µg/g	120	1	29	12	21	10	9	11	14	5
Molybdenum	µg/g	6.9	0.5	2.0	1.0	0.9	0.7	0.8	0.9	1.2	0.5
Nickel	µg/g	130	1	31	16	16	13	15	16	15	15
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.78	0.64	0.61	0.53	0.59	0.62	0.67	0.59
Vanadium	µg/g	86	2.0	33.8	34.9	33.2	29.6	32.3	31.6	28.5	28.3
Zinc	µg/g	340	5	71	50	43	37	40	40	43	30
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	0.40

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

SAMPLE DESCRIPTION:				TP7-WFS2	TP8-NFS1	TP8-SFS2	TP8-SWS1	TP8-WWS2	DUP17	TP9-EFS1	TP9-NFS2
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00
Parameter	Unit	G / S	RDL	5943444	5943445	5943446	5943447	5943448	5943449	5943450	5943451
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	6	5	4	3	7	2	2
Barium	µg/g	390	2.0	58.5	67.9	81.2	64.6	46.1	82.8	80.1	77.7
Beryllium	µg/g	5	0.5	<0.5	0.6	0.5	<0.5	<0.5	0.6	<0.5	<0.5
Boron	µg/g	120	5	7	6	6	7	<5	6	7	6
Boron (Hot Water Soluble)	µg/g	1.5	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.53	0.34
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	18	17	18	15	13	19	22	22
Cobalt	µg/g	22	0.8	7.2	7.2	7.2	5.9	5.0	8.3	6.5	7.6
Copper	µg/g	180	1.0	17.8	16.1	14.8	12.9	10.1	17.8	17.7	21.4
Lead	µg/g	120	1	13	10	12	20	7	13	17	15
Molybdenum	µg/g	6.9	0.5	1.3	1.1	0.8	0.7	0.6	1.0	0.7	0.8
Nickel	µg/g	130	1	14	14	14	11	9	16	11	14
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.51	<0.50	0.56	0.55	<0.50	0.64	0.82	0.76
Vanadium	µg/g	86	2.0	29.6	31.0	30.8	25.4	22.4	31.3	36.0	38.9
Zinc	µg/g	340	5	38	40	42	34	28	46	45	49
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.80	0.48

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

SAMPLE DESCRIPTION:				TP9-NWS1	TP9-WWS2	TP10-WFS1	TP10-EFS2	TP10-NWS1	TP10-WWS2	TP11-NWS1	TP11-NFS2
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00
Parameter	Unit	G / S	RDL	5943452	5943453	5943454	5943455	5943456	5943457	5943458	5943459
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	4	2	2	2	2	2	2
Barium	µg/g	390	2.0	79.0	70.4	102	95.0	70.8	77.9	82.4	74.7
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	8	9	7	7	6	7	7	7
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.20	0.11	0.39	0.81	0.26	0.18	0.20	0.16
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	18	17	24	25	26	27	30	26
Cobalt	µg/g	22	0.8	7.6	6.8	7.6	7.1	7.3	8.1	8.0	7.3
Copper	µg/g	180	1.0	28.1	15.5	15.7	15.8	16.2	18.8	18.4	15.7
Lead	µg/g	120	1	31	10	8	8	10	9	9	8
Molybdenum	µg/g	6.9	0.5	1.0	0.7	1.0	1.1	0.6	0.6	0.6	0.5
Nickel	µg/g	130	1	13	12	16	16	16	16	17	15
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.67	0.64	0.94	1.15	0.86	0.74	0.95	0.89
Vanadium	µg/g	86	2.0	30.2	32.9	33.5	34.0	33.4	37.4	37.4	32.9
Zinc	µg/g	340	5	51	34	38	79	42	42	45	40
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

		SAMPLE DESCRIPTION:		TP11-WWS2	TP11-WFS1	DUP18
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00
Parameter	Unit	G / S	RDL	5943460	5943461	5943462
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	2	2
Barium	µg/g	390	2.0	69.6	69.2	90.1
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	7	5	7
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.22	0.19	0.37
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	24	25	23
Cobalt	µg/g	22	0.8	7.1	7.4	7.2
Copper	µg/g	180	1.0	19.4	16.2	16.5
Lead	µg/g	120	1	11	8	7
Molybdenum	µg/g	6.9	0.5	0.7	0.6	1.0
Nickel	µg/g	130	1	16	15	17
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.73	0.76	1.00
Vanadium	µg/g	86	2.0	35.3	31.0	32.2
Zinc	µg/g	340	5	43	40	35
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

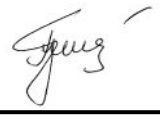
		SAMPLE DESCRIPTION:		EX1-SWS1	EX1-SWUS2	EX1-SWLS3
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-17 12:00	2024-06-17 12:00	2024-06-17 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5943411**	**5943412**	**5943413**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	**1.84**
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	**0.66**
Acenaphthene	µg/g	58	0.05	<0.05	0.05	4.43
Fluorene	µg/g	69	0.05	<0.05	0.19	4.34
Phenanthrene	µg/g	7.8	0.05	0.13	0.70	**14.6**
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	**5.52**
Fluoranthene	µg/g	0.69	0.05	0.10	0.62	**10.6**
Pyrene	µg/g	78	0.05	0.08	1.50	8.29
Benzo(a)anthracene	µg/g	0.63	0.05	<0.05	<0.05	**5.12**
Chrysene	µg/g	7.8	0.05	<0.05	<0.05	3.87
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	**5.28**
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	**2.32**
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	**3.63**
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05	<0.05	**0.99**
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	**0.27**
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05	<0.05	0.81
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	0.14	2.13
Moisture Content	%		0.1	17.4	22.8	29.6
Surrogate	**Unit**	**Acceptable Limits**				
Naphthalene-d8	%	50-140		95	98	90
Acridine-d9	%	50-140		85	85	98
Terphenyl-d14	%	50-140		70	80	95

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

5943411-5943413 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

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Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

		SAMPLE DESCRIPTION:		EX1-SWC5-R12	EX1-SWC5-R13	EX1-SWC5-FS8	DUP14
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-17	2024-06-17	2024-06-17	2024-06-17
Parameter	**Unit**	**G / S**	**RDL**	**5943407**	**5943408**	**5943409**	**5943410**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	17	<10	<10	16
F3 (C16 to C34)	µg/g	1300	50	935	667	<50	809
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA
Moisture Content	%		0.1	35.1	25.6	18.2	27.0
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	60-140		96	97	82	89
Terphenyl	%	60-140		72	89	71	91

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

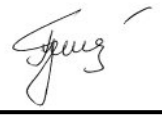
DATE REPORTED: 2024-06-20

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

5943407-5943410 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

		SAMPLE DESCRIPTION:		EX1-SWS1		EX1-SWUS2	EX1-SWLS3
		SAMPLE TYPE:		Soil		Soil	Soil
		DATE SAMPLED:		2024-06-17 12:00		2024-06-17 12:00	2024-06-17 12:00
Parameter	**Unit**	**G / S**	**RDL**	**5943411**	**RDL**	**5943412**	**5943413**
Benzene	µg/g	0.17	0.02	<0.02	0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	10	70	**244**
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	10	70	242
F3 (C16 to C34)	µg/g	1300	50	<50	50	**39700**	**8440**
F3 (C16 to C34) minus PAHs	µg/g		50	<50	50	39700	8390
F4 (C34 to C50)	µg/g	5600	50	<50	50	**16000**	981
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	50	NA	NA
Moisture Content	%		0.1	17.4	0.1	22.8	29.6
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	60-140		67	**1.00**	66.5	68.0
Terphenyl	%	60-140		63	**1**	75	95

Certified By:

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

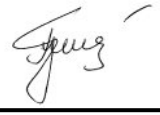
DATE REPORTED: 2024-06-20

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

5943411-5943413 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

AGAT Laboratories

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Exceedance Summary

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
5943412	EX1-SWUS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	F3 (C16 to C34)	µg/g	1300	39700
5943412	EX1-SWUS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	F4 (C34 to C50)	µg/g	5600	16000
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Acenaphthylene	µg/g	0.17	0.66
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Anthracene	µg/g	0.74	5.52
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)anthracene	µg/g	0.63	5.12
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	µg/g	0.3	3.63
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	µg/g	0.78	5.28
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(k)fluoranthene	µg/g	0.78	2.32
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Dibenz(a,h)anthracene	µg/g	0.1	0.27
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	µg/g	0.69	10.6
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.99
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Naphthalene	µg/g	0.75	1.84
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Phenanthrene	µg/g	7.8	14.6
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(a)anthracene	µg/g	0.63	5.12
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(a)pyrene	µg/g	0.3	3.63
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(b)fluoranthene	µg/g	0.78	5.28
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Benzo(k)fluoranthene	µg/g	0.78	2.32
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Dibenzo(a,h)anthracene	µg/g	0.1	0.27
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	F2 (C10 to C16)	µg/g	150	244
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	F3 (C16 to C34)	µg/g	1300	8440
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Fluoranthene	µg/g	0.69	10.6
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.99
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Naphthalene	µg/g	0.75	1.84
5943413	EX1-SWLS3	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	Phenanthrene	µg/g	7.8	14.6

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z163653
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Jun 20, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	5943411	5943411	<0.8	<0.8	NA	< 0.8	128%	70%	130%	99%	80%	120%	73%	70%	130%
Arsenic	5943411	5943411	2	2	NA	< 1	124%	70%	130%	103%	80%	120%	100%	70%	130%
Barium	5943411	5943411	64.8	65.4	0.9%	< 2.0	100%	70%	130%	100%	80%	120%	90%	70%	130%
Beryllium	5943411	5943411	<0.5	<0.5	NA	< 0.5	115%	70%	130%	129%	80%	120%	128%	70%	130%
Boron	5943411	5943411	<5	<5	NA	< 5	91%	70%	130%	109%	80%	120%	110%	70%	130%
Boron (Hot Water Soluble)	5943411	5943411	0.27	0.28	NA	< 0.10	87%	60%	140%	102%	70%	130%	108%	60%	140%
Cadmium	5943411	5943411	<0.5	<0.5	NA	< 0.5	80%	70%	130%	103%	80%	120%	99%	70%	130%
Chromium	5943411	5943411	37	36	2.7%	< 5	100%	70%	130%	99%	80%	120%	96%	70%	130%
Cobalt	5943411	5943411	9.3	9.5	2.1%	< 0.8	98%	70%	130%	104%	80%	120%	106%	70%	130%
Copper	5943411	5943411	10.0	9.9	1.0%	< 1.0	98%	70%	130%	98%	80%	120%	96%	70%	130%
Lead	5943411	5943411	6	6	0.0%	< 1	102%	70%	130%	99%	80%	120%	96%	70%	130%
Molybdenum	5943411	5943411	<0.5	<0.5	NA	< 0.5	100%	70%	130%	97%	80%	120%	101%	70%	130%
Nickel	5943411	5943411	16	16	0.0%	< 1	96%	70%	130%	98%	80%	120%	97%	70%	130%
Selenium	5943411	5943411	<0.8	<0.8	NA	< 0.8	75%	70%	130%	106%	80%	120%	106%	70%	130%
Silver	5943411	5943411	<0.5	<0.5	NA	< 0.5	96%	70%	130%	101%	80%	120%	97%	70%	130%
Thallium	5943411	5943411	<0.5	<0.5	NA	< 0.5	94%	70%	130%	100%	80%	120%	99%	70%	130%
Uranium	5943411	5943411	1.17	1.16	NA	< 0.50	102%	70%	130%	98%	80%	120%	99%	70%	130%
Vanadium	5943411	5943411	40.3	39.5	2.0%	< 2.0	120%	70%	130%	101%	80%	120%	114%	70%	130%
Zinc	5943411	5943411	46	46	0.0%	< 5	107%	70%	130%	104%	80%	120%	101%	70%	130%
Chromium, Hexavalent	5943411	5943411	<0.2	<0.2	NA	< 0.2	108%	70%	130%	96%	80%	120%	75%	70%	130%
Mercury	5943411	5943411	<0.10	<0.10	NA	< 0.10	114%	70%	130%	97%	80%	120%	101%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

O. Reg. 153(511) - All Metals (Soil)															
Boron (Hot Water Soluble)	5943432	5943432	<0.10	<0.10	NA	< 0.10	83%	60%	140%	91%	70%	130%	122%	60%	140%

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

O. Reg. 153(511) - All Metals (Soil)															
Boron (Hot Water Soluble)	5943452	5943452	0.20	0.19	NA	< 0.10	105%	60%	140%	91%	70%	130%	106%	60%	140%

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

O. Reg. 153(511) - All Metals (Soil)															
Antimony	5943432	5943432	<0.8	<0.8	NA	< 0.8	130%	70%	130%	102%	80%	120%	88%	70%	130%
Arsenic	5943432	5943432	5	5	0.0%	< 1	136%	70%	130%	104%	80%	120%	109%	70%	130%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z163653
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Soil Analysis (Continued)

RPT Date: Jun 20, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Barium	5943432	5943432	74.1	71.1	4.1%	< 2.0	98%	70%	130%	98%	80%	120%	92%	70%	130%
Beryllium	5943432	5943432	0.6	0.5	NA	< 0.5	108%	70%	130%	103%	80%	120%	129%	70%	130%
Boron	5943432	5943432	10	8	NA	< 5	87%	70%	130%	105%	80%	120%	98%	70%	130%
Cadmium	5943432	5943432	<0.5	<0.5	NA	< 0.5	110%	70%	130%	101%	80%	120%	99%	70%	130%
Chromium	5943432	5943432	18	17	NA	< 5	111%	70%	130%	100%	80%	120%	104%	70%	130%
Cobalt	5943432	5943432	7.4	7.0	5.6%	< 0.8	110%	70%	130%	108%	80%	120%	109%	70%	130%
Copper	5943432	5943432	15.4	14.9	3.3%	< 1.0	104%	70%	130%	104%	80%	120%	97%	70%	130%
Lead	5943432	5943432	12	12	0.0%	< 1	103%	70%	130%	102%	80%	120%	91%	70%	130%
Molybdenum	5943432	5943432	1.3	1.2	NA	< 0.5	115%	70%	130%	102%	80%	120%	107%	70%	130%
Nickel	5943432	5943432	14	13	7.4%	< 1	110%	70%	130%	98%	80%	120%	103%	70%	130%
Selenium	5943432	5943432	<0.8	<0.8	NA	< 0.8	78%	70%	130%	109%	80%	120%	110%	70%	130%
Silver	5943432	5943432	<0.5	<0.5	NA	< 0.5	99%	70%	130%	102%	80%	120%	93%	70%	130%
Thallium	5943432	5943432	<0.5	<0.5	NA	< 0.5	100%	70%	130%	105%	80%	120%	95%	70%	130%
Uranium	5943432	5943432	0.73	0.71	NA	< 0.50	101%	70%	130%	92%	80%	120%	94%	70%	130%
Vanadium	5943432	5943432	32.2	27.9	14.3%	< 2.0	124%	70%	130%	102%	80%	120%	104%	70%	130%
Zinc	5943432	5943432	42	40	4.9%	< 5	116%	70%	130%	100%	80%	120%	105%	70%	130%
Chromium, Hexavalent	5943432	5943432	< 0.2	< 0.2	NA	< 0.2	93%	70%	130%	107%	80%	120%	73%	70%	130%
Mercury	5943432	5943432	<0.10	<0.10	NA	< 0.10	105%	70%	130%	88%	80%	120%	98%	70%	130%

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

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

Antimony	5943452	5943452	<0.8	<0.8	NA	< 0.8	131%	70%	130%	100%	80%	120%	93%	70%	130%
Arsenic	5943452	5943452	4	4	NA	< 1	122%	70%	130%	105%	80%	120%	106%	70%	130%
Barium	5943452	5943452	79.0	79.1	0.1%	< 2.0	104%	70%	130%	97%	80%	120%	97%	70%	130%
Beryllium	5943452	5943452	<0.5	<0.5	NA	< 0.5	108%	70%	130%	104%	80%	120%	128%	70%	130%
Boron	5943452	5943452	8	8	NA	< 5	85%	70%	130%	104%	80%	120%	105%	70%	130%
Cadmium	5943452	5943452	<0.5	<0.5	NA	< 0.5	80%	70%	130%	101%	80%	120%	96%	70%	130%
Chromium	5943452	5943452	18	18	NA	< 5	115%	70%	130%	105%	80%	120%	101%	70%	130%
Cobalt	5943452	5943452	7.6	7.8	2.6%	< 0.8	115%	70%	130%	114%	80%	120%	109%	70%	130%
Copper	5943452	5943452	28.1	28.6	1.8%	< 1.0	105%	70%	130%	103%	80%	120%	105%	70%	130%
Lead	5943452	5943452	31	31	0.0%	< 1	107%	70%	130%	100%	80%	120%	87%	70%	130%
Molybdenum	5943452	5943452	1.0	1.0	NA	< 0.5	116%	70%	130%	109%	80%	120%	108%	70%	130%
Nickel	5943452	5943452	13	13	0.0%	< 1	111%	70%	130%	108%	80%	120%	98%	70%	130%
Selenium	5943452	5943452	<0.8	<0.8	NA	< 0.8	83%	70%	130%	105%	80%	120%	104%	70%	130%
Silver	5943452	5943452	<0.5	<0.5	NA	< 0.5	97%	70%	130%	101%	80%	120%	94%	70%	130%
Thallium	5943452	5943452	<0.5	<0.5	NA	< 0.5	101%	70%	130%	104%	80%	120%	96%	70%	130%
Uranium	5943452	5943452	0.67	0.67	NA	< 0.50	104%	70%	130%	99%	80%	120%	95%	70%	130%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Soil Analysis (Continued)

RPT Date: Jun 20, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Vanadium	5943452	5943452	30.2	30.4	0.7%	< 2.0	123%	70%	130%	110%	80%	120%	106%	70%	130%
Zinc	5943452	5943452	51	52	1.9%	< 5	114%	70%	130%	107%	80%	120%	114%	70%	130%
Mercury	5943452	5943452	<0.10	<0.10	NA	< 0.10	103%	70%	130%	100%	80%	120%	97%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 20, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5936246		<0.02	<0.02	NA	< 0.02	106%	60%	140%	107%	60%	140%	71%	60%	140%
Toluene	5936246		<0.05	<0.05	NA	< 0.05	109%	60%	140%	99%	60%	140%	71%	60%	140%
Ethylbenzene	5936246		<0.05	<0.05	NA	< 0.05	102%	60%	140%	109%	60%	140%	72%	60%	140%
m & p-Xylene	5936246		<0.05	<0.05	NA	< 0.05	95%	60%	140%	105%	60%	140%	73%	60%	140%
o-Xylene	5936246		<0.05	<0.05	NA	< 0.05	94%	60%	140%	93%	60%	140%	74%	60%	140%
F1 (C6 to C10)	5936246		<5	<5	NA	< 5	101%	60%	140%	94%	60%	140%	100%	60%	140%
F2 (C10 to C16)	5932639		< 10	< 10	NA	< 10	116%	60%	140%	90%	60%	140%	123%	60%	140%
F3 (C16 to C34)	5932639		< 50	< 50	NA	< 50	116%	60%	140%	111%	60%	140%	122%	60%	140%
F4 (C34 to C50)	5932639		< 50	< 50	NA	< 50	82%	60%	140%	111%	60%	140%	92%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5932649		<0.05	<0.05	NA	< 0.05	81%	50%	140%	80%	50%	140%	95%	50%	140%
Acenaphthylene	5932649		<0.05	<0.05	NA	< 0.05	72%	50%	140%	80%	50%	140%	90%	50%	140%
Acenaphthene	5932649		<0.05	<0.05	NA	< 0.05	101%	50%	140%	78%	50%	140%	80%	50%	140%
Fluorene	5932649		<0.05	<0.05	NA	< 0.05	128%	50%	140%	85%	50%	140%	88%	50%	140%
Phenanthrene	5932649		<0.05	<0.05	NA	< 0.05	139%	50%	140%	95%	50%	140%	98%	50%	140%
Anthracene	5932649		<0.05	<0.05	NA	< 0.05	132%	50%	140%	88%	50%	140%	90%	50%	140%
Fluoranthene	5932649		<0.05	<0.05	NA	< 0.05	122%	50%	140%	93%	50%	140%	95%	50%	140%
Pyrene	5932649		<0.05	<0.05	NA	< 0.05	137%	50%	140%	90%	50%	140%	95%	50%	140%
Benzo(a)anthracene	5932649		<0.05	<0.05	NA	< 0.05	135%	50%	140%	73%	50%	140%	73%	50%	140%
Chrysene	5932649		<0.05	<0.05	NA	< 0.05	106%	50%	140%	83%	50%	140%	83%	50%	140%
Benzo(b)fluoranthene	5932649		<0.05	<0.05	NA	< 0.05	133%	50%	140%	100%	50%	140%	103%	50%	140%
Benzo(k)fluoranthene	5932649		<0.05	<0.05	NA	< 0.05	134%	50%	140%	95%	50%	140%	110%	50%	140%
Benzo(a)pyrene	5932649		<0.05	<0.05	NA	< 0.05	137%	50%	140%	78%	50%	140%	80%	50%	140%
Indeno(1,2,3-cd)pyrene	5932649		<0.05	<0.05	NA	< 0.05	109%	50%	140%	80%	50%	140%	85%	50%	140%
Dibenz(a,h)anthracene	5932649		<0.05	<0.05	NA	< 0.05	94%	50%	140%	95%	50%	140%	73%	50%	140%
Benzo(g,h,i)perylene	5932649		<0.05	<0.05	NA	< 0.05	81%	50%	140%	108%	50%	140%	73%	50%	140%

Certified By:

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

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Jun 20, 2024		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)										
Beryllium	5943411	115%	70%	130%	129%	80%	120%	128%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

O. Reg. 153(511) - All Metals (Soil)										
Arsenic	5943432	136%	70%	130%	104%	80%	120%	109%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

O. Reg. 153(511) - All Metals (Soil)										
Antimony	5943452	131%	70%	130%	100%	80%	120%	93%	70%	130%

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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Time Markers

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943407	EX1-SWC5-R12	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	19-JUN-2024	19-JUN-2024	VB
Toluene	19-JUN-2024	19-JUN-2024	VB
Ethylbenzene	19-JUN-2024	19-JUN-2024	VB
m & p-Xylene	19-JUN-2024	19-JUN-2024	VB
o-Xylene	19-JUN-2024	19-JUN-2024	VB
Xylenes (Total)	19-JUN-2024	19-JUN-2024	SYS
F1 (C6 to C10)	19-JUN-2024	19-JUN-2024	VB
F1 (C6 to C10) minus BTEX	19-JUN-2024	19-JUN-2024	SYS
Toluene-d8	19-JUN-2024	19-JUN-2024	VB
F2 (C10 to C16)	19-JUN-2024	19-JUN-2024	CA
F3 (C16 to C34)	19-JUN-2024	19-JUN-2024	CA
F4 (C34 to C50)	19-JUN-2024	19-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	19-JUN-2024	19-JUN-2024	SD
Terphenyl	19-JUN-2024	19-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943408	EX1-SWC5-R13	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	19-JUN-2024	19-JUN-2024	VB
Toluene	19-JUN-2024	19-JUN-2024	VB
Ethylbenzene	19-JUN-2024	19-JUN-2024	VB
m & p-Xylene	19-JUN-2024	19-JUN-2024	VB
o-Xylene	19-JUN-2024	19-JUN-2024	VB
Xylenes (Total)	19-JUN-2024	19-JUN-2024	SYS
F1 (C6 to C10)	19-JUN-2024	19-JUN-2024	VB
F1 (C6 to C10) minus BTEX	19-JUN-2024	19-JUN-2024	SYS
Toluene-d8	19-JUN-2024	19-JUN-2024	VB
F2 (C10 to C16)	19-JUN-2024	19-JUN-2024	CA
F3 (C16 to C34)	19-JUN-2024	19-JUN-2024	CA
F4 (C34 to C50)	19-JUN-2024	19-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	19-JUN-2024	19-JUN-2024	SD
Terphenyl	19-JUN-2024	19-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943409	EX1-SWC5-FS8	Soil	17-JUN-2024	18-JUN-2024

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943409	EX1-SWC5-FS8	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	19-JUN-2024	19-JUN-2024	VB
Toluene	19-JUN-2024	19-JUN-2024	VB
Ethylbenzene	19-JUN-2024	19-JUN-2024	VB
m & p-Xylene	19-JUN-2024	19-JUN-2024	VB
o-Xylene	19-JUN-2024	19-JUN-2024	VB
Xylenes (Total)	19-JUN-2024	19-JUN-2024	SYS
F1 (C6 to C10)	19-JUN-2024	19-JUN-2024	VB
F1 (C6 to C10) minus BTEX	19-JUN-2024	19-JUN-2024	SYS
Toluene-d8	19-JUN-2024	19-JUN-2024	VB
F2 (C10 to C16)	19-JUN-2024	19-JUN-2024	CA
F3 (C16 to C34)	19-JUN-2024	19-JUN-2024	CA
F4 (C34 to C50)	19-JUN-2024	19-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	19-JUN-2024	19-JUN-2024	SD
Terphenyl	19-JUN-2024	19-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943410	DUP14	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	19-JUN-2024	19-JUN-2024	VB
Toluene	19-JUN-2024	19-JUN-2024	VB
Ethylbenzene	19-JUN-2024	19-JUN-2024	VB
m & p-Xylene	19-JUN-2024	19-JUN-2024	VB
o-Xylene	19-JUN-2024	19-JUN-2024	VB
Xylenes (Total)	19-JUN-2024	19-JUN-2024	SYS
F1 (C6 to C10)	19-JUN-2024	19-JUN-2024	VB
F1 (C6 to C10) minus BTEX	19-JUN-2024	19-JUN-2024	SYS
Toluene-d8	19-JUN-2024	19-JUN-2024	VB
F2 (C10 to C16)	19-JUN-2024	19-JUN-2024	CA
F3 (C16 to C34)	19-JUN-2024	19-JUN-2024	CA
F4 (C34 to C50)	19-JUN-2024	19-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	19-JUN-2024	19-JUN-2024	SD
Terphenyl	19-JUN-2024	19-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943411	EX1-SWS1	Soil	17-JUN-2024	18-JUN-2024

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943411	EX1-SWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	19-JUN-2024	19-JUN-2024	SE
Arsenic	19-JUN-2024	19-JUN-2024	SE
Barium	19-JUN-2024	19-JUN-2024	SE
Beryllium	19-JUN-2024	19-JUN-2024	SE
Boron	19-JUN-2024	19-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	19-JUN-2024	19-JUN-2024	SE
Chromium	19-JUN-2024	19-JUN-2024	SE
Cobalt	19-JUN-2024	19-JUN-2024	SE
Copper	19-JUN-2024	19-JUN-2024	SE
Lead	19-JUN-2024	19-JUN-2024	SE
Molybdenum	19-JUN-2024	19-JUN-2024	SE
Nickel	19-JUN-2024	19-JUN-2024	SE
Selenium	19-JUN-2024	19-JUN-2024	SE
Silver	19-JUN-2024	19-JUN-2024	SE
Thallium	19-JUN-2024	19-JUN-2024	SE
Uranium	19-JUN-2024	19-JUN-2024	SE
Vanadium	19-JUN-2024	19-JUN-2024	SE
Zinc	19-JUN-2024	19-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	19-JUN-2024	19-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	19-JUN-2024	19-JUN-2024	NP
Acenaphthylene	19-JUN-2024	19-JUN-2024	NP
Acenaphthene	19-JUN-2024	19-JUN-2024	NP
Fluorene	19-JUN-2024	19-JUN-2024	NP
Phenanthrene	19-JUN-2024	19-JUN-2024	NP
Anthracene	19-JUN-2024	19-JUN-2024	NP
Fluoranthene	19-JUN-2024	19-JUN-2024	NP
Pyrene	19-JUN-2024	19-JUN-2024	NP
Benzo(a)anthracene	19-JUN-2024	19-JUN-2024	NP
Chrysene	19-JUN-2024	19-JUN-2024	NP
Benzo(b)fluoranthene	19-JUN-2024	19-JUN-2024	NP
Benzo(k)fluoranthene	19-JUN-2024	19-JUN-2024	NP
Benzo(a)pyrene	19-JUN-2024	19-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	19-JUN-2024	19-JUN-2024	NP
Dibenz(a,h)anthracene	19-JUN-2024	19-JUN-2024	NP

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943411	EX1-SWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(g,h,i)perylene	19-JUN-2024	19-JUN-2024	NP
2-and 1-methyl Naphthalene	19-JUN-2024	19-JUN-2024	SYS
Naphthalene-d8	19-JUN-2024	19-JUN-2024	NP
Acridine-d9	19-JUN-2024	19-JUN-2024	NP
Terphenyl-d14	19-JUN-2024	19-JUN-2024	NP
Moisture Content	19-JUN-2024	19-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	19-JUN-2024	19-JUN-2024	VB
Toluene	19-JUN-2024	19-JUN-2024	VB
Ethylbenzene	19-JUN-2024	19-JUN-2024	VB
m & p-Xylene	19-JUN-2024	19-JUN-2024	VB
o-Xylene	19-JUN-2024	19-JUN-2024	VB
Xylenes (Total)	19-JUN-2024	19-JUN-2024	SYS
F1 (C6 to C10)	19-JUN-2024	19-JUN-2024	VB
F1 (C6 to C10) minus BTEX	19-JUN-2024	19-JUN-2024	SYS
Toluene-d8	19-JUN-2024	19-JUN-2024	VB
F2 (C10 to C16)	19-JUN-2024	19-JUN-2024	CA
F2 (C10 to C16) minus Naphthalene	19-JUN-2024	19-JUN-2024	SYS
F3 (C16 to C34)	19-JUN-2024	19-JUN-2024	CA
F3 (C16 to C34) minus PAHs	19-JUN-2024	19-JUN-2024	SYS
F4 (C34 to C50)	19-JUN-2024	19-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	19-JUN-2024	19-JUN-2024	SD
Terphenyl	19-JUN-2024	19-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943412	EX1-SWUS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943412	EX1-SWUS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	19-JUN-2024	19-JUN-2024	NP
Acenaphthylene	19-JUN-2024	19-JUN-2024	NP
Acenaphthene	19-JUN-2024	19-JUN-2024	NP
Fluorene	19-JUN-2024	19-JUN-2024	NP
Phenanthrene	19-JUN-2024	19-JUN-2024	NP
Anthracene	19-JUN-2024	19-JUN-2024	NP
Fluoranthene	19-JUN-2024	19-JUN-2024	NP
Pyrene	19-JUN-2024	19-JUN-2024	NP
Benzo(a)anthracene	19-JUN-2024	19-JUN-2024	NP
Chrysene	19-JUN-2024	19-JUN-2024	NP
Benzo(b)fluoranthene	19-JUN-2024	19-JUN-2024	NP
Benzo(k)fluoranthene	19-JUN-2024	19-JUN-2024	NP
Benzo(a)pyrene	19-JUN-2024	19-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	19-JUN-2024	19-JUN-2024	NP
Dibenz(a,h)anthracene	19-JUN-2024	19-JUN-2024	NP
Benzo(g,h,i)perylene	19-JUN-2024	19-JUN-2024	NP
2-and 1-methyl Naphthalene	19-JUN-2024	19-JUN-2024	SYS
Naphthalene-d8	19-JUN-2024	19-JUN-2024	np
Acridine-d9	19-JUN-2024	19-JUN-2024	NP
Terphenyl-d14	19-JUN-2024	19-JUN-2024	NP
Moisture Content	19-JUN-2024	19-JUN-2024	SD

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

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943412	EX1-SWUS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	19-JUN-2024	19-JUN-2024	VB
Toluene	19-JUN-2024	19-JUN-2024	VB
Ethylbenzene	19-JUN-2024	19-JUN-2024	VB
m & p-Xylene	19-JUN-2024	19-JUN-2024	VB
o-Xylene	19-JUN-2024	19-JUN-2024	VB
Xylenes (Total)	19-JUN-2024	19-JUN-2024	SYS
F1 (C6 to C10)	19-JUN-2024	19-JUN-2024	VB
F1 (C6 to C10) minus BTEX	19-JUN-2024	19-JUN-2024	SYS
Toluene-d8	19-JUN-2024	19-JUN-2024	VB
F2 (C10 to C16)	19-JUN-2024	19-JUN-2024	CA
F2 (C10 to C16) minus Naphthalene	19-JUN-2024	19-JUN-2024	SYS
F3 (C16 to C34)	19-JUN-2024	19-JUN-2024	CA
F3 (C16 to C34) minus PAHs	19-JUN-2024	19-JUN-2024	SYS
F4 (C34 to C50)	19-JUN-2024	19-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	19-JUN-2024	19-JUN-2024	SD
Terphenyl	19-JUN-2024	19-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943413	EX1-SWLS3	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943413	EX1-SWLS3	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	19-JUN-2024	19-JUN-2024	NP
Acenaphthylene	19-JUN-2024	19-JUN-2024	NP
Acenaphthene	19-JUN-2024	19-JUN-2024	NP
Fluorene	19-JUN-2024	19-JUN-2024	NP
Phenanthrene	19-JUN-2024	19-JUN-2024	np
Anthracene	19-JUN-2024	19-JUN-2024	NP
Fluoranthene	19-JUN-2024	19-JUN-2024	NP
Pyrene	19-JUN-2024	19-JUN-2024	NP
Benzo(a)anthracene	19-JUN-2024	19-JUN-2024	NP
Chrysene	19-JUN-2024	19-JUN-2024	NP
Benzo(b)fluoranthene	19-JUN-2024	19-JUN-2024	NP
Benzo(k)fluoranthene	19-JUN-2024	19-JUN-2024	NP
Benzo(a)pyrene	19-JUN-2024	19-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	19-JUN-2024	19-JUN-2024	NP
Dibenz(a,h)anthracene	19-JUN-2024	19-JUN-2024	NP
Benzo(g,h,i)perylene	19-JUN-2024	19-JUN-2024	NP
2-and 1-methyl Naphthalene	19-JUN-2024	19-JUN-2024	SYS
Naphthalene-d8	19-JUN-2024	19-JUN-2024	np
Acridine-d9	19-JUN-2024	19-JUN-2024	np
Terphenyl-d14	19-JUN-2024	19-JUN-2024	NP
Moisture Content	19-JUN-2024	19-JUN-2024	SD

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	19-JUN-2024	19-JUN-2024	VB
Toluene	19-JUN-2024	19-JUN-2024	VB
Ethylbenzene	19-JUN-2024	19-JUN-2024	VB
m & p-Xylene	19-JUN-2024	19-JUN-2024	VB
o-Xylene	19-JUN-2024	19-JUN-2024	VB
Xylenes (Total)	19-JUN-2024	19-JUN-2024	SYS
F1 (C6 to C10)	19-JUN-2024	19-JUN-2024	VB
F1 (C6 to C10) minus BTEX	19-JUN-2024	19-JUN-2024	SYS

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943413	EX1-SWLS3	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	19-JUN-2024	19-JUN-2024	VB
F2 (C10 to C16)	19-JUN-2024	19-JUN-2024	CA
F2 (C10 to C16) minus Naphthalene	19-JUN-2024	19-JUN-2024	SYS
F3 (C16 to C34)	19-JUN-2024	19-JUN-2024	CA
F3 (C16 to C34) minus PAHs	19-JUN-2024	19-JUN-2024	SYS
F4 (C34 to C50)	19-JUN-2024	19-JUN-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	19-JUN-2024	19-JUN-2024	SD
Terphenyl	19-JUN-2024	19-JUN-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943414	TP1-NWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943415	TP1-SWS2	Soil	17-JUN-2024	18-JUN-2024

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943415	TP1-SWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943416	TP1-EFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943416	TP1-EFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943417	TP1-WFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943418	TP2-NW1	Soil	17-JUN-2024	18-JUN-2024

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

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943418	TP2-NW1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943419	TP2-SW2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943419	TP2-SW2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943420	TP2-WFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943421	TP2-EFS2	Soil	17-JUN-2024	18-JUN-2024

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

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943421	TP2-EFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943422	TP3-NW1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943422	TP3-NW1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943423	TP3-EW2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943424	TP3-NFS1	Soil	17-JUN-2024	18-JUN-2024

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

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

5835 COOPERS AVENUE
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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943424	TP3-NFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943425	TP3-SFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943425	TP3-SFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943426	TP4-NFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943427	TP4-SFS2	Soil	17-JUN-2024	18-JUN-2024

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

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943427	TP4-SFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943428	TP4-EWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943428	TP4-EWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943430	TP4-WWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943431	TP5-SWS1	Soil	17-JUN-2024	18-JUN-2024

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

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943431	TP5-SWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943432	TP5-EWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943432	TP5-EWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943433	TP5-EFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943434	TP5-WFS2	Soil	17-JUN-2024	18-JUN-2024

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

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943434	TP5-WFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943435	TP6-NFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943435	TP6-NFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943436	TP6-SFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943437	TP6-WWS1	Soil	17-JUN-2024	18-JUN-2024

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

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943437	TP6-WWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943438	TP6-SWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943438	TP6-SWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943439	DUP15	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943440	DUP16	Soil	17-JUN-2024	18-JUN-2024

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

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943440	DUP16	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943441	TP7-WWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943441	TP7-WWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943442	TP7-NWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943443	TP7-EFS1	Soil	17-JUN-2024	18-JUN-2024

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

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PROJECT: 267991.012

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943443	TP7-EFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943444	TP7-WFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943444	TP7-WFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943445	TP8-NFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943446	TP8-SFS2	Soil	17-JUN-2024	18-JUN-2024

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

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943446	TP8-SFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943447	TP8-SWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943447	TP8-SWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943448	TP8-WWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943449	DUP17	Soil	17-JUN-2024	18-JUN-2024

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

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943449	DUP17	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943450	TP9-EFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943450	TP9-EFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943451	TP9-NFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943452	TP9-NWS1	Soil	17-JUN-2024	18-JUN-2024

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

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943452	TP9-NWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943453	TP9-WWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943453	TP9-WWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943454	TP10-WFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943455	TP10-EFS2	Soil	17-JUN-2024	18-JUN-2024

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

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

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AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943455	TP10-EFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943456	TP10-NWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943456	TP10-NWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943457	TP10-WWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943458	TP11-NWS1	Soil	17-JUN-2024	18-JUN-2024

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

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

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943458	TP11-NWS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943459	TP11-NFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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

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

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943459	TP11-NFS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943460	TP11-WWS2	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943461	TP11-WFS1	Soil	17-JUN-2024	18-JUN-2024

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

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

AGAT Laboratories

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

Time Markers

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943461	TP11-WFS1	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943462	DUP18	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	20-JUN-2024	20-JUN-2024	SE
Arsenic	20-JUN-2024	20-JUN-2024	SE
Barium	20-JUN-2024	20-JUN-2024	SE
Beryllium	20-JUN-2024	20-JUN-2024	SE
Boron	20-JUN-2024	20-JUN-2024	SE
Boron (Hot Water Soluble)	20-JUN-2024	20-JUN-2024	ZK
Cadmium	20-JUN-2024	20-JUN-2024	SE
Chromium	20-JUN-2024	20-JUN-2024	SE
Cobalt	20-JUN-2024	20-JUN-2024	SE
Copper	20-JUN-2024	20-JUN-2024	SE
Lead	20-JUN-2024	20-JUN-2024	SE
Molybdenum	20-JUN-2024	20-JUN-2024	SE
Nickel	20-JUN-2024	20-JUN-2024	SE

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

AGAT Laboratories

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

Time Markers

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5943462	DUP18	Soil	17-JUN-2024	18-JUN-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	20-JUN-2024	20-JUN-2024	SE
Silver	20-JUN-2024	20-JUN-2024	SE
Thallium	20-JUN-2024	20-JUN-2024	SE
Uranium	20-JUN-2024	20-JUN-2024	SE
Vanadium	20-JUN-2024	20-JUN-2024	SE
Zinc	20-JUN-2024	20-JUN-2024	SE
Chromium, Hexavalent	19-JUN-2024	19-JUN-2024	RC
Mercury	20-JUN-2024	20-JUN-2024	SE

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

AGAT Laboratories

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

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

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163653

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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

AGAT Laboratories

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Chain of Custody Record

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

Laboratory Use Only

Work Order #: 2471636053

Cooler Quantity: Three - ice packs

Arrival Temperatures: See attached

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: bagged in

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture

Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Regulation 406
Table _____ *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
_____ *Indicate One*

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

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

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	Metals - ☑CrVI, ☑Hg, ☑HWSB	O. Reg 153: ~~BTEX~~, F1-F4 PHCs	VOC	PAHs	PCBs	PCBs: Aroclors ☐	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐M&I ☐VOCs ☐ABNs ☐B(a)P ☐PCBs	O. Reg 406: Regulation 406 SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EXI-SW05-R12	6/17/24	A AM/PM	2	S					X									
2. EXI-SW05-R13		A AM/PM	2						X									
3. EXI-SW05-F58		A AM/PM	2						X									
4. DUP14		A AM/PM	2						X									
5. EXI-SW51		P AM/PM	3					X	X		X							
6. EXI-SW052		P AM/PM	3					X	X		X							
7. EXI-SW053		P AM/PM	3					X	X		X							
8. TPI-NW51		P AM/PM	1					X										
9. TPI-SW52		P AM/PM	1					X										
10. TPI EFS1	↓	P AM/PM	1	↓				X										
11. TPI-WF52		P AM/PM	1	S				X										

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
J McCann	6/17/24	5:16	C Cwiklinski	06/18/24	08:10
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			Tiffanie	June 19	8:45
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
C to Pino	06/18/24	15:00			

Page 1 of 5

N°: T - 148121

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Document ID: DM-78 154 2023

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Date Issued: Mar 30, 2023

AGAT Laboratories

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

Chain of Custody Record

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

Report Information:

Company: Pinchin
Contact:
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email:

Project Information:

Project: 216991.02
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

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

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Regulation 406
Table _____ *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

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

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 2421631653
Cooler Quantity: Three - ice packs
Arrival Temperatures: See attached
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐CrVI, ☐Hg, ☐HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 558: Landfill Disposal Characterization TCLP: ☐M&I ☐VOCs ☐ABNs ☐B(a)P ☐PCBs	O. Reg 406: Regulation 406 SPLP Rainwater Leach SPLP: ☐Metals ☐VOCs ☐SVOCs	O. Reg 406: Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Corrosivity: ☐Moisture ☐Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TP2-NW1	6/17/24	P AM PM	1	S			X	X										
2. TP2-SW2		AM PM					X											
3. TP2-WFS1		AM PM					X											
4. TP2-EFS2		AM PM					X											
5. TP3-NW1		AM PM					X											
6. TP3-EW2		AM PM					X											
7. TP3-NFS1		AM PM					X											
8. TP3-SFS2		AM PM					X											
9. TP4-NFS1		AM PM					X											
10. TP4-SFS2		AM PM					X											
11. TP4-EWS1	6/17/24	P AM PM	1	S			X											

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			C. Griffiths	06/18/24	08h10
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
				06/19	8:45A
Samples Relinquished By (Print Name and Sign): CC to Pinchin	Date 06/18/24	Time 15h00	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 5

N°: T-148122

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Document ID: DIV-78-1811.022 | Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document. | Date Issued: May 30, 2023

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

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 2471631653

Cooler Quantity: Three - ice packs

Arrival Temperatures: see attached

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes:

Report Information:

Company: Pinchin

Contact:

Address:

Phone: Fax:

Reports to be sent to:

1. Email: amcdonald@pinchin.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

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

☐ Regulation 406 — Table (Indicate One)

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other (Indicate One)

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

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

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

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

Project Information:

Project: 2647991.012

Site Location:

Sampled By:

AGAT Quote #: PO:

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

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company:

Contact:

Address:

Email:

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☑ CrVI, ☑ Hg, ☑ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs	PCBs: Aroclors ☐	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Regulation 406 SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Regulation 406 Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TP4 - WWS2	6/17/24	P AM PM	1	S			6											
2. TP5 - SWS1		AM PM					6											
3. TP5 - EWS2		AM PM					6											
4. TP5 - EFS1		AM PM					6											
5. TP5 - WFS2		AM PM					6											
6. TP6 - NFS1		AM PM					6											
7. TP6 - SFS2		AM PM					6											
8. TP6 - WWS1		AM PM					6											
9. TP6 - SWS2		AM PM					6											
10. DUP 15		AM PM					6											
11. DUP 16	6/17/24	P AM PM	1	S			6											

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
J. McLean			C. Griffiths	06/18/24	08h10
			Thu 19 8.4EA		
CC to Pinchin	06/18/24	15h00			

Page 3 of 5

N°: T - 148123

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Document ID: DR-16-1511.012 Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document. Date Issued: Mar 30, 2023

AGAT Laboratories

RUSH!

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

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 24Z1636053

Cooler Quantity: Three - ice packs

Arrival Temperatures: See attached

Custody Seal Intact: ☐Yes ☐No ☐N/A

Notes:

Report Information:

Machin

Company:
Contact:
Address:
Phone: Fax:
Reports to be sent to:
1. Email:
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table ___ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Excess Soils R406
Table ___ *Indicate One*
☐ Regulation 558
☐ CCME

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

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

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

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

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

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

Project Information:

267991.012

Project:
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:
Contact:
Address:
Email:

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☑CrVI, ☑Hg, ☑HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: Analyze F4G if required ☐Yes ☐No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐M&I ☐VOCs ☐ABNs ☐B(a)P ☐PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐Metals ☐VOCs ☐SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	O. Reg 406: Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
TP7 - WWS1	6/19/24	P AM PM	1	S				6										
TP7 - NWS2		AM PM						6										
TP7 - EFS1		AM PM						6										
TP7 - WFS2		AM PM						6										
TP8 - NFS1		AM PM						6										
TP8 - SFS2		AM PM						6										
TP8 - SWS1		AM PM						6										
TP8 - WWS2		AM PM						6										
DUP17		AM PM						6										
TP9 - EFS1		AM PM						6										
TP9 NFS2	6/19/24	P AM PM	1	S				6										

	Date	Time		Date	Time
Samples Relinquished By (Print Name and Sign):			Samples Received By (Print Name and Sign): C. Cwiyttw	06/18/24	08h10
Samples Relinquished By (Print Name and Sign):			Samples Received By (Print Name and Sign):		
Samples Relinquished By (Print Name and Sign): Cc to Pwo	06/18/24	15h00	Samples Received By (Print Name and Sign):		

Page 4 of 5

Nº: T 129330

Document ID: DV-78-1511.021

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Date Issued: March 9, 2021

AGAT Laboratories

RUSH!

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

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 24716636 53

Cooler Quantity: Three - ice packs

Arrival Temperatures: See attached

Custody Seal Intact: ☐Yes ☐No ☐N/A

Notes:

Report Information:

Company: Anchin

Contact:

Address:

Phone: Fax:

Reports to be sent to:

1. Email:

2. Email:

Project Information:

Project: 2679910.02

Site Location:

Sampled By:

AGAT Quote #: PO:

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company:

Contact:

Address:

Email:

Regulatory Requirements:

(Please check all applicable boxes)

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

☐ Excess Soils R406
Table (Indicate One)

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐Sanitary ☐Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

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

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

*TAT is exclusive of weekends and statutory holidays

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

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐CrVI ☐Hg ☒HWSB	BTEX, F1-F4 PHCs	Analyze F4G if required ☐Yes ☐No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐M&I ☐VOCs ☐ABNs ☐B(a)P ☐PCBs	TCLP: ☐M&I ☐VOCs ☐ABNs ☐B(a)P ☐PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach	SPLP: ☐Metals ☐VOCs ☐SVOCs	Excess Soils Characterization Package	pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
TP9 - NWS1	6/17/24	P AM/PM		S				X													
TP9 - WWS2		AM/PM						X													
TP10 - WFS1		AM/PM						X													
TP10 - EFS2		AM/PM						X													
TP10 - NWS1		AM/PM						X													
TP10 - WWS2		AM/PM						X													
TP11 - NWS1		AM/PM						X													
TP11 - WFS2		AM/PM						X													
TP11 - WWS2		AM/PM						X													
TP11 - WFS1		AM/PM						X													
DUP 18	6/17/24	P AM/PM		S				X													

Relinquished By (Print Name and Sign): CC to Anchin	Date: 06/18/24	Time: 15h00	Received By (Print Name and Sign): C Cwynn Tiffany	Date: 06/18/24	Time: 08h10	Page 5 of 5	
Relinquished By (Print Name and Sign):	Date:	Time:	Received By (Print Name and Sign):	Date: June 19	Time: 8:45 AM		
Relinquished By (Print Name and Sign):	Date:	Time:	Received By (Print Name and Sign):	Date:	Time:	N°: T 129331	

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AGAT Laboratories

Sample Temperature Log

repacked into fewer coolers

WO# 2421636653

Client: Pinchin

COC# or Work Order #: T-148121, 148122, 148123, T129330 & T129331

# of Coolers: Three

# of Submissions: One

	Arrival Temperatures - Branch/Driver	Arrival Temperatures - Laboratory
Cooler #1:	9.0 / 8.9 / 9.0	4.3 / 4.5 / 4.9
Cooler #2:	4.3 / 3.6 / 4.1	3.8 / 3.9 / 4.7
Cooler #3:	4.6 / 4.8 / 4.6	5.0 / 5.1 / 5.5
Cooler #4:	___ / ___ / ___	5.8 / 5.4 / 5.3
Cooler #5:	___ / ___ / ___	___ / ___ / ___
Cooler #6:	___ / ___ / ___	___ / ___ / ___
Cooler #7:	___ / ___ / ___	___ / ___ / ___
Cooler #8	___ / ___ / ___	___ / ___ / ___
Cooler #9:	___ / ___ / ___	___ / ___ / ___
Cooler #10:	___ / ___ / ___	___ / ___ / ___

IR Gun ID: 1439003407

Taken By: C. Griffiths

Date (yyyy/mm/dd): 2024/06/18 Time: 08:10 AM / PM

IR Gun ID: ___

Taken By: [illegible]

Date (yyyy/mm/dd): 2024/06/19 Time: 8:45 AM / PM

Instructions for use of this form: 1) complete all fields of info including total # of coolers and # of submissions rec'd, 2) photocopy and place in each submission prior to giving a WO#, 3) Proceed as normal, write the WO# and scan (please make sure to scan along with the COC)

AGAT Laboratories

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

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z163983
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
DATE REPORTED: Jun 21, 2024
PAGES (INCLUDING COVER): 11
VERSION*: 1

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

Notes

Disclaimer:

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

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

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AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-18

DATE REPORTED: 2024-06-20

		SAMPLE DESCRIPTION:		EX1SW453	EX1-SW455	EX1-SW457	DUP 20
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-18	2024-06-18	2024-06-18	2024-06-18
Parameter	Unit	G / S	RDL	5943720	5943928	5944086	5944234
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	2	<1	<1
Barium	µg/g	390	2.0	200	103	52.7	54.3
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	6	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.52	0.18	<0.10	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	29	31	14	15
Cobalt	µg/g	22	0.8	6.6	7.5	3.8	4.3
Copper	µg/g	180	1.0	57.1	17.9	9.9	11.6
Lead	µg/g	120	1	98	10	4	10
Molybdenum	µg/g	6.9	0.5	0.7	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	24	17	8	8
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.53	0.63	<0.50	<0.50
Vanadium	µg/g	86	2.0	36.9	43.5	26.0	28.7
Zinc	µg/g	340	5	**420**	55	24	27
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	0.14	<0.10	<0.10	<0.10

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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

AGAT Laboratories

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

Exceedance Summary

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
5943720	EX1SW453	ON T2 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Zinc	µg/g	340	420

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

AGAT Laboratories

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

Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	5946191		<0.8	<0.8	NA	< 0.8	127%	70%	130%	106%	80%	120%	80%	70%	130%
Arsenic	5946191		8	8	0.0%	< 1	112%	70%	130%	106%	80%	120%	103%	70%	130%
Barium	5946191		96.9	106	9.0%	< 2.0	126%	70%	130%	115%	80%	120%	131%	70%	130%
Beryllium	5946191		0.9	0.9	NA	< 0.5	81%	70%	130%	107%	80%	120%	103%	70%	130%
Boron	5946191		17	19	NA	< 5	75%	70%	130%	90%	80%	120%	85%	70%	130%
Boron (Hot Water Soluble)	5946237		<0.10	<0.10	NA	< 0.10	110%	60%	140%	103%	70%	130%	118%	60%	140%
Cadmium	5946191		<0.5	<0.5	NA	< 0.5	118%	70%	130%	107%	80%	120%	108%	70%	130%
Chromium	5946191		25	26	3.9%	< 5	101%	70%	130%	104%	80%	120%	NA	70%	130%
Cobalt	5946191		16.5	17.1	3.6%	< 0.8	99%	70%	130%	103%	80%	120%	95%	70%	130%
Copper	5946191		30.1	28.5	5.5%	< 1.0	97%	70%	130%	106%	80%	120%	NA	70%	130%
Lead	5946191		8	8	0.0%	< 1	108%	70%	130%	106%	80%	120%	104%	70%	130%
Molybdenum	5946191		<0.5	<0.5	NA	< 0.5	103%	70%	130%	105%	80%	120%	95%	70%	130%
Nickel	5946191		32	32	0.0%	< 1	101%	70%	130%	105%	80%	120%	92%	70%	130%
Selenium	5946191		<0.8	<0.8	NA	< 0.8	108%	70%	130%	101%	80%	120%	103%	70%	130%
Silver	5946191		<0.5	<0.5	NA	< 0.5	106%	70%	130%	106%	80%	120%	106%	70%	130%
Thallium	5946191		<0.5	<0.5	NA	< 0.5	107%	70%	130%	98%	80%	120%	99%	70%	130%
Uranium	5946191		0.63	0.66	NA	< 0.50	102%	70%	130%	98%	80%	120%	103%	70%	130%
Vanadium	5946191		33.9	34.8	2.6%	< 2.0	109%	70%	130%	106%	80%	120%	101%	70%	130%
Zinc	5946191		72	70	2.8%	< 5	105%	70%	130%	105%	80%	120%	NA	70%	130%
Chromium, Hexavalent	5943411		<0.2	<0.2	NA	< 0.2	108%	70%	130%	96%	80%	120%	75%	70%	130%
Mercury	5946191		<0.10	<0.10	NA	< 0.10	105%	70%	130%	101%	80%	120%	102%	70%	130%

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

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



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

AGAT Laboratories

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

Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date:			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5935414		<0.05	<0.05	NA	< 0.05	89%	50%	140%	113%	50%	140%	78%	50%	140%
Acenaphthylene	5935414		<0.05	<0.05	NA	< 0.05	78%	50%	140%	90%	50%	140%	83%	50%	140%
Acenaphthene	5935414		<0.05	<0.05	NA	< 0.05	102%	50%	140%	98%	50%	140%	83%	50%	140%
Fluorene	5935414		<0.05	<0.05	NA	< 0.05	116%	50%	140%	103%	50%	140%	85%	50%	140%
Phenanthrene	5935414		<0.05	<0.05	NA	< 0.05	123%	50%	140%	110%	50%	140%	88%	50%	140%
Anthracene	5935414		<0.05	<0.05	NA	< 0.05	129%	50%	140%	108%	50%	140%	88%	50%	140%
Fluoranthene	5935414		<0.05	<0.05	NA	< 0.05	120%	50%	140%	108%	50%	140%	88%	50%	140%
Pyrene	5935414		<0.05	<0.05	NA	< 0.05	117%	50%	140%	108%	50%	140%	85%	50%	140%
Benzo(a)anthracene	5935414		<0.05	<0.05	NA	< 0.05	113%	50%	140%	95%	50%	140%	75%	50%	140%
Chrysene	5935414		<0.05	<0.05	NA	< 0.05	108%	50%	140%	80%	50%	140%	78%	50%	140%
Benzo(b)fluoranthene	5935414		<0.05	<0.05	NA	< 0.05	117%	50%	140%	103%	50%	140%	100%	50%	140%
Benzo(k)fluoranthene	5935414		<0.05	<0.05	NA	< 0.05	115%	50%	140%	100%	50%	140%	90%	50%	140%
Benzo(a)pyrene	5935414		<0.05	<0.05	NA	< 0.05	90%	50%	140%	80%	50%	140%	73%	50%	140%
Indeno(1,2,3-cd)pyrene	5935414		<0.05	<0.05	NA	< 0.05	79%	50%	140%	73%	50%	140%	80%	50%	140%
Dibenz(a,h)anthracene	5935414		<0.05	<0.05	NA	< 0.05	77%	50%	140%	80%	50%	140%	90%	50%	140%
Benzo(g,h,i)perylene	5935414		<0.05	<0.05	NA	< 0.05	72%	50%	140%	108%	50%	140%	93%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)															
Benzene	5939192		<0.02	<0.02	NA	< 0.02	78%	60%	140%	81%	60%	140%	93%	60%	140%
Toluene	5939192		<0.05	<0.05	NA	< 0.05	71%	60%	140%	81%	60%	140%	97%	60%	140%
Ethylbenzene	5939192		<0.05	<0.05	NA	< 0.05	78%	60%	140%	81%	60%	140%	77%	60%	140%
m & p-Xylene	5939192		<0.05	<0.05	NA	< 0.05	82%	60%	140%	92%	60%	140%	81%	60%	140%
o-Xylene	5939192		<0.05	<0.05	NA	< 0.05	77%	60%	140%	85%	60%	140%	82%	60%	140%
F1 (C6 to C10)	5939192		<5	<5	NA	< 5	94%	60%	140%	92%	60%	140%	87%	60%	140%
F2 (C10 to C16)	5936522		12	11	NA	< 10	114%	60%	140%	114%	60%	140%	111%	60%	140%
F3 (C16 to C34)	5936522		< 50	< 50	NA	< 50	115%	60%	140%	114%	60%	140%	114%	60%	140%
F4 (C34 to C50)	5936522		< 50	< 50	NA	< 50	91%	60%	140%	83%	60%	140%	68%	60%	140%

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

O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5939192		<0.02	<0.02	NA	< 0.02	78%	60%	140%	81%	60%	140%	93%	60%	140%
Toluene	5939192		<0.05	<0.05	NA	< 0.05	71%	60%	140%	81%	60%	140%	97%	60%	140%
Ethylbenzene	5939192		<0.05	<0.05	NA	< 0.05	78%	60%	140%	81%	60%	140%	77%	60%	140%
m & p-Xylene	5939192		<0.05	<0.05	NA	< 0.05	82%	60%	140%	92%	60%	140%	81%	60%	140%
o-Xylene	5939192		<0.05	<0.05	NA	< 0.05	77%	60%	140%	85%	60%	140%	82%	60%	140%
F1 (C6 to C10)	5939192		<5	<5	NA	< 5	94%	60%	140%	92%	60%	140%	87%	60%	140%

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

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date:			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Certified By:

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

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date:		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)										
Barium		126%	70%	130%	115%	80%	120%	131%	70%	130%

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

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

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

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

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z163983

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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

AGAT Laboratories

RUSH!

5835 Coopers Avenue
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Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

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

Laboratory Use Only

Work Order #: 242163983

Cooler Quantity: One - no ice/packs

Arrival Temperatures: 5.4 | 6.0 | 6.7

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: bagged ice

Report Information:

Company: Pinchin

Contact: Alicia McDonald

Address:

Phone: Fax:

Reports to be sent to:

1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture *(Check One)* ☐ Coarse ☐ Fine

☐ Excess Soils R406
Table _____ *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
_____ *Region*

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

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

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

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

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

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

Project Information:

Project: 267991.012

Site Location:

Sampled By:

AGAT Quote #: 3.0 PO:

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

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:

Contact:

Address:

Email:

Sample Matrix Legend

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

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - CrVI, Hg, HWSB	O. Reg 153: BTEX, F1-F4 PHCs (Analyze F4G if required ☐ Yes ☐ No)	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Packages pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
EX1-FS2	6/18/24	P AM/PM	2	S					X	X							
EX1-FS3			2	S					X								
EX1-FS4			2	S					X								
EX1-FS5			2	S					X								
EX1SW453			2	S				X		X							
~~EX1LWS4~~ EX1-SWLS4			2	S					X								
EX1-SW455			2	S				X		X							
EX1-SWLS6			2	S					X								
EX1-SW457			2	S				X		X							
EX1-SWLS8			2	S					X								
DUP 19			2	S					X								

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
DUP 20	6/18/24 P	2 S	C. Griffiths	06/18/24	16h20
J McCann / [illegible]	6/18/24	410	Tiffanie	June 19	8:55 AM
CC to Puto	06/18/24	17h00			

Page ____ of ____

N°: T 129332

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

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z164646
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer
DATE REPORTED: Jun 21, 2024
PAGES (INCLUDING COVER): 33
VERSION*: 1

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

Notes

Disclaimer:

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

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

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AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20

DATE REPORTED: 2024-06-21

SAMPLE DESCRIPTION:				EX1-ECWUR5	EX1-SWUS9	DUP21	EX1-SWUS3
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-06-19	2024-06-19	2024-06-19	2024-06-19
Parameter	Unit	G / S	RDL	5952809	5952818	5952823	5952824
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	2	2	1	3
Barium	µg/g	390	2.0	81.0	50.8	43.3	142
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5	9
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.12	<0.10	<0.10	0.65
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	25	15	13	22
Cobalt	µg/g	22	0.8	6.3	5.1	4.5	5.5
Copper	µg/g	180	1.0	15.6	10.1	9.7	33.4
Lead	µg/g	120	1	4	3	2	55
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5	0.6
Nickel	µg/g	130	1	14	9	8	16
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.60	0.56	0.59	<0.50
Vanadium	µg/g	86	2.0	48.9	27.7	27.0	25.0
Zinc	µg/g	340	5	35	25	22	229
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20

DATE REPORTED: 2024-06-21

		SAMPLE DESCRIPTION:		EX1-ECWUR5	EX1-SWUS9	DUP21	EX1-SWUS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-06-19	2024-06-19	2024-06-19	2024-06-19
Parameter	**Unit**	**G / S**	**RDL**	**5952809**	**5952818**	**5952823**	**5952824**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05	<0.05	<0.05	0.11
Fluorene	µg/g	69	0.05	<0.05	0.06	0.08	0.12
Phenanthrene	µg/g	7.8	0.05	<0.05	0.43	0.52	1.20
Anthracene	µg/g	0.74	0.05	<0.05	0.06	0.10	0.26
Fluoranthene	µg/g	0.69	0.05	<0.05	0.13	0.11	**1.67**
Pyrene	µg/g	78	0.05	<0.05	0.30	0.34	1.41
Benzo(a)anthracene	µg/g	0.63	0.05	<0.05	0.18	0.21	**1.01**
Chrysene	µg/g	7.8	0.05	<0.05	0.39	0.51	0.83
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	0.06	0.07	**1.00**
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	0.16
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	**0.70**
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05	<0.05	<0.05	0.20
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	0.24
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	19.2	14.5	12.8	15.0
Surrogate	**Unit**	**Acceptable Limits**					
Naphthalene-d8	%	50-140		75	80	80	98
Acridine-d9	%	50-140		85	75	75	79
Terphenyl-d14	%	50-140		95	105	110	103

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

5952809-5952824 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

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Certified By:



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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20

DATE REPORTED: 2024-06-21

		SAMPLE DESCRIPTION:		EX1-SWLS10	EX1-FS6	EX1-FS7
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-19	2024-06-19	2024-06-19
Parameter	**Unit**	**G / S**	**RDL**	**5952819**	**5952820**	**5952821**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	89	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA
Moisture Content	%		0.1	22.5	19.0	16.0
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	60-140		121	74	90
Terphenyl	%	60-140		70	80	85

Certified By:

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20 **DATE REPORTED: 2024-06-21**

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

5952819-5952821 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20

DATE REPORTED: 2024-06-21

		SAMPLE DESCRIPTION:		EX1-ECWUR5
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2024-06-19
Parameter	**Unit**	**G / S**	**RDL**	**5952809**
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	150	10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10
F3 (C16 to C34)	µg/g	1300	50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50
F4 (C34 to C50)	µg/g	5600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA
Moisture Content	%		0.1	19.2
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	60-140		82
Terphenyl	%	60-140		89

Certified By:

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20 **DATE REPORTED: 2024-06-21**

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

5952809 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20

DATE REPORTED: 2024-06-21

		SAMPLE DESCRIPTION:		EX1-ECWLR6	EX1-ECWFS3	EX1-ECWFS4
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-19	2024-06-19	2024-06-19
Parameter	Unit	G / S	RDL	5952814	5952816	5952817
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA
Moisture Content	%		0.1	22.6	14.2	14.8
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	%	50-140		104	102	102
Terphenyl	%	60-140		75	72	73

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

5952814-5952817 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20

DATE REPORTED: 2024-06-21

		SAMPLE DESCRIPTION:		EX1-ECWLR6	EX1-ECWFS3	EX1-ECWFS4
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-19	2024-06-19	2024-06-19
Parameter	Unit	G / S	RDL	5952814	5952816	5952817
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05

Certified By: Pinkal Patel

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2024-06-20

DATE REPORTED: 2024-06-21

		SAMPLE DESCRIPTION:		EX1-ECWLR6	EX1-ECWFS3	EX1-ECWFS4
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-06-19	2024-06-19	2024-06-19
Parameter	**Unit**	**G / S**	**RDL**	**5952814**	**5952816**	**5952817**
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	22.6	14.2	14.8
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	50-140		104	102	102
4-Bromofluorobenzene	% Recovery	50-140		95	88	90

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

5952814-5952817 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Exceedance Summary

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
5952824	EX1-SWUS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)anthracene	µg/g	0.63	1.01
5952824	EX1-SWUS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	µg/g	0.3	0.70
5952824	EX1-SWUS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	µg/g	0.78	1.00
5952824	EX1-SWUS3	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	µg/g	0.69	1.67

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z164646
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Jun 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	5952809	5952809	<0.8	<0.8	NA	< 0.8	109%	70%	130%	95%	80%	120%	80%	70%	130%
Arsenic	5952809	5952809	2	2	NA	< 1	116%	70%	130%	109%	80%	120%	95%	70%	130%
Barium	5952809	5952809	81.0	75.7	6.8%	< 2.0	81%	70%	130%	104%	80%	120%	103%	70%	130%
Beryllium	5952809	5952809	<0.5	<0.5	NA	< 0.5	91%	70%	130%	109%	80%	120%	117%	70%	130%
Boron	5952809	5952809	<5	<5	NA	< 5	97%	70%	130%	108%	80%	120%	109%	70%	130%
Boron (Hot Water Soluble)	5952809	5952809	0.12	0.11	NA	< 0.10	102%	60%	140%	105%	70%	130%	112%	60%	140%
Cadmium	5952809	5952809	<0.5	<0.5	NA	< 0.5	103%	70%	130%	96%	80%	120%	99%	70%	130%
Chromium	5952809	5952809	25	24	NA	< 5	99%	70%	130%	102%	80%	120%	101%	70%	130%
Cobalt	5952809	5952809	6.3	6.2	1.6%	< 0.8	98%	70%	130%	113%	80%	120%	97%	70%	130%
Copper	5952809	5952809	15.6	15.8	1.3%	< 1.0	95%	70%	130%	102%	80%	120%	89%	70%	130%
Lead	5952809	5952809	4	4	NA	< 1	112%	70%	130%	104%	80%	120%	105%	70%	130%
Molybdenum	5952809	5952809	<0.5	<0.5	NA	< 0.5	106%	70%	130%	102%	80%	120%	101%	70%	130%
Nickel	5952809	5952809	14	14	0.0%	< 1	100%	70%	130%	114%	80%	120%	99%	70%	130%
Selenium	5952809	5952809	<0.8	<0.8	NA	< 0.8	112%	70%	130%	93%	80%	120%	100%	70%	130%
Silver	5952809	5952809	<0.5	<0.5	NA	< 0.5	110%	70%	130%	116%	80%	120%	101%	70%	130%
Thallium	5952809	5952809	<0.5	<0.5	NA	< 0.5	101%	70%	130%	121%	80%	120%	99%	70%	130%
Uranium	5952809	5952809	0.60	0.56	NA	< 0.50	100%	70%	130%	96%	80%	120%	101%	70%	130%
Vanadium	5952809	5952809	48.9	47.9	2.1%	< 2.0	108%	70%	130%	115%	80%	120%	100%	70%	130%
Zinc	5952809	5952809	35	35	0.0%	< 5	100%	70%	130%	101%	80%	120%	103%	70%	130%
Chromium, Hexavalent	5951550		<0.2	<0.2	NA	< 0.2	113%	70%	130%	100%	80%	120%	70%	70%	130%
Mercury	5952809	5952809	<0.10	<0.10	NA	< 0.10	99%	70%	130%	95%	80%	120%	96%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)															
Benzene	5946725		<0.02	<0.02	NA	< 0.02	78%	60%	140%	81%	60%	140%	64%	60%	140%
Toluene	5946725		<0.05	<0.05	NA	< 0.05	71%	60%	140%	81%	60%	140%	78%	60%	140%
Ethylbenzene	5946725		<0.05	<0.05	NA	< 0.05	78%	60%	140%	81%	60%	140%	90%	60%	140%
m & p-Xylene	5946725		<0.05	<0.05	NA	< 0.05	82%	60%	140%	92%	60%	140%	64%	60%	140%
o-Xylene	5946725		<0.05	<0.05	NA	< 0.05	77%	60%	140%	85%	60%	140%	105%	60%	140%
F1 (C6 to C10)	5946725		<5	<5	NA	< 5	94%	60%	140%	92%	60%	140%	83%	60%	140%
F2 (C10 to C16)	5947577		< 10	< 10	NA	< 10	107%	60%	140%	109%	60%	140%	115%	60%	140%
F3 (C16 to C34)	5947577		< 50	< 50	NA	< 50	110%	60%	140%	123%	60%	140%	119%	60%	140%
F4 (C34 to C50)	5947577		< 50	< 50	NA	< 50	80%	60%	140%	80%	60%	140%	82%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5939510		<0.05	<0.05	NA	< 0.05	135%	50%	140%	85%	50%	140%	80%	50%	140%
Acenaphthylene	5939510		<0.05	<0.05	NA	< 0.05	116%	50%	140%	105%	50%	140%	85%	50%	140%
Acenaphthene	5939510		<0.05	<0.05	NA	< 0.05	119%	50%	140%	83%	50%	140%	75%	50%	140%
Fluorene	5939510		<0.05	<0.05	NA	< 0.05	122%	50%	140%	80%	50%	140%	73%	50%	140%
Phenanthrene	5939510		<0.05	<0.05	NA	< 0.05	130%	50%	140%	88%	50%	140%	80%	50%	140%
Anthracene	5939510		<0.05	<0.05	NA	< 0.05	118%	50%	140%	73%	50%	140%	103%	50%	140%
Fluoranthene	5939510		<0.05	<0.05	NA	< 0.05	126%	50%	140%	83%	50%	140%	75%	50%	140%
Pyrene	5939510		<0.05	<0.05	NA	< 0.05	122%	50%	140%	80%	50%	140%	73%	50%	140%
Benzo(a)anthracene	5939510		<0.05	<0.05	NA	< 0.05	127%	50%	140%	80%	50%	140%	73%	50%	140%
Chrysene	5939510		<0.05	<0.05	NA	< 0.05	121%	50%	140%	78%	50%	140%	83%	50%	140%
Benzo(b)fluoranthene	5939510		<0.05	<0.05	NA	< 0.05	104%	50%	140%	100%	50%	140%	93%	50%	140%
Benzo(k)fluoranthene	5939510		<0.05	<0.05	NA	< 0.05	124%	50%	140%	105%	50%	140%	88%	50%	140%
Benzo(a)pyrene	5939510		<0.05	<0.05	NA	< 0.05	95%	50%	140%	93%	50%	140%	85%	50%	140%
Indeno(1,2,3-cd)pyrene	5939510		<0.05	<0.05	NA	< 0.05	77%	50%	140%	113%	50%	140%	80%	50%	140%
Dibenz(a,h)anthracene	5939510		<0.05	<0.05	NA	< 0.05	74%	50%	140%	80%	50%	140%	73%	50%	140%
Benzo(g,h,i)perylene	5939510		<0.05	<0.05	NA	< 0.05	97%	50%	140%	80%	50%	140%	93%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F1 (C6 to C10)	5939627		<5	<5	NA	< 5	123%	60%	140%	114%	60%	140%	89%	60%	140%
F2 (C10 to C16)	5936532		< 10	< 10	NA	< 10	115%	60%	140%	89%	60%	140%	117%	60%	140%
F3 (C16 to C34)	5936532		< 50	< 50	NA	< 50	119%	60%	140%	114%	60%	140%	120%	60%	140%
F4 (C34 to C50)	5936532		< 50	< 50	NA	< 50	73%	60%	140%	92%	60%	140%	98%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5939627		<0.05	<0.05	NA	< 0.05	99%	50%	140%	78%	50%	140%	81%	50%	140%
Vinyl Chloride	5939627		<0.02	<0.02	NA	< 0.02	117%	50%	140%	126%	50%	140%	121%	50%	140%
Bromomethane	5939627		<0.05	<0.05	NA	< 0.05	94%	50%	140%	98%	50%	140%	115%	50%	140%
Trichlorofluoromethane	5939627		<0.05	<0.05	NA	< 0.05	92%	50%	140%	117%	50%	140%	109%	50%	140%
Acetone	5939627		<0.50	<0.50	NA	< 0.50	81%	50%	140%	96%	50%	140%	99%	50%	140%
1,1-Dichloroethylene	5939627		<0.05	<0.05	NA	< 0.05	72%	50%	140%	88%	60%	130%	100%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z164646
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Methylene Chloride	5939627		<0.05	<0.05	NA	< 0.05	94%	50%	140%	93%	60%	130%	88%	50%	140%
Trans- 1,2-Dichloroethylene	5939627		<0.05	<0.05	NA	< 0.05	107%	50%	140%	98%	60%	130%	89%	50%	140%
Methyl tert-butyl Ether	5939627		<0.05	<0.05	NA	< 0.05	106%	50%	140%	96%	60%	130%	76%	50%	140%
1,1-Dichloroethane	5939627		<0.02	<0.02	NA	< 0.02	82%	50%	140%	102%	60%	130%	81%	50%	140%
Methyl Ethyl Ketone	5939627		<0.50	<0.50	NA	< 0.50	114%	50%	140%	94%	50%	140%	87%	50%	140%
Cis- 1,2-Dichloroethylene	5939627		<0.02	<0.02	NA	< 0.02	83%	50%	140%	98%	60%	130%	77%	50%	140%
Chloroform	5939627		<0.04	<0.04	NA	< 0.04	90%	50%	140%	99%	60%	130%	76%	50%	140%
1,2-Dichloroethane	5939627		<0.03	<0.03	NA	< 0.03	92%	50%	140%	94%	60%	130%	76%	50%	140%
1,1,1-Trichloroethane	5939627		<0.05	<0.05	NA	< 0.05	76%	50%	140%	91%	60%	130%	62%	50%	140%
Carbon Tetrachloride	5939627		<0.05	<0.05	NA	< 0.05	69%	50%	140%	84%	60%	130%	62%	50%	140%
Benzene	5939627		<0.02	<0.02	NA	< 0.02	88%	50%	140%	100%	60%	130%	80%	50%	140%
1,2-Dichloropropane	5939627		<0.03	<0.03	NA	< 0.03	97%	50%	140%	99%	60%	130%	80%	50%	140%
Trichloroethylene	5939627		<0.03	<0.03	NA	< 0.03	90%	50%	140%	106%	60%	130%	79%	50%	140%
Bromodichloromethane	5939627		<0.05	<0.05	NA	< 0.05	91%	50%	140%	87%	60%	130%	63%	50%	140%
Methyl Isobutyl Ketone	5939627		<0.50	<0.50	NA	< 0.50	96%	50%	140%	99%	50%	140%	93%	50%	140%
1,1,2-Trichloroethane	5939627		<0.04	<0.04	NA	< 0.04	107%	50%	140%	96%	60%	130%	79%	50%	140%
Toluene	5939627		<0.05	<0.05	NA	< 0.05	102%	50%	140%	102%	60%	130%	85%	50%	140%
Dibromochloromethane	5939627		<0.05	<0.05	NA	< 0.05	86%	50%	140%	78%	60%	130%	60%	50%	140%
Ethylene Dibromide	5939627		<0.04	<0.04	NA	< 0.04	100%	50%	140%	93%	60%	130%	72%	50%	140%
Tetrachloroethylene	5939627		<0.05	<0.05	NA	< 0.05	99%	50%	140%	88%	60%	130%	72%	50%	140%
1,1,1,2-Tetrachloroethane	5939627		<0.04	<0.04	NA	< 0.04	93%	50%	140%	86%	60%	130%	69%	50%	140%
Chlorobenzene	5939627		<0.05	<0.05	NA	< 0.05	109%	50%	140%	96%	60%	130%	79%	50%	140%
Ethylbenzene	5939627		<0.05	<0.05	NA	< 0.05	108%	50%	140%	98%	60%	130%	82%	50%	140%
m & p-Xylene	5939627		<0.05	<0.05	NA	< 0.05	109%	50%	140%	99%	60%	130%	83%	50%	140%
Bromoform	5939627		<0.05	<0.05	NA	< 0.05	89%	50%	140%	78%	60%	130%	85%	50%	140%
Styrene	5939627		<0.05	<0.05	NA	< 0.05	104%	50%	140%	91%	60%	130%	75%	50%	140%
1,1,2,2-Tetrachloroethane	5939627		<0.05	<0.05	NA	< 0.05	100%	50%	140%	65%	60%	130%	75%	50%	140%
o-Xylene	5939627		<0.05	<0.05	NA	< 0.05	104%	50%	140%	99%	60%	130%	84%	50%	140%
1,3-Dichlorobenzene	5939627		<0.05	<0.05	NA	< 0.05	98%	50%	140%	91%	60%	130%	74%	50%	140%
1,4-Dichlorobenzene	5939627		<0.05	<0.05	NA	< 0.05	98%	50%	140%	91%	60%	130%	75%	50%	140%
1,2-Dichlorobenzene	5939627		<0.05	<0.05	NA	< 0.05	103%	50%	140%	90%	60%	130%	72%	50%	140%
n-Hexane	5939627		<0.05	<0.05	NA	< 0.05	90%	50%	140%	86%	60%	130%	76%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	5944650		<0.02	<0.02	NA	< 0.02	75%	60%	140%	75%	60%	140%	87%	60%	140%
Toluene	5944650		<0.05	<0.05	NA	< 0.05	75%	60%	140%	83%	60%	140%	86%	60%	140%
Ethylbenzene	5944650		<0.05	<0.05	NA	< 0.05	83%	60%	140%	72%	60%	140%	75%	60%	140%
m & p-Xylene	5944650		<0.05	<0.05	NA	< 0.05	78%	60%	140%	76%	60%	140%	89%	60%	140%
o-Xylene	5944650		<0.05	<0.05	NA	< 0.05	83%	60%	140%	75%	60%	140%	94%	60%	140%
F1 (C6 to C10)	5944650		<5	<5	NA	< 5	95%	60%	140%	96%	60%	140%	85%	60%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By:



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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Jun 21, 2024

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)										
Thallium	5952809	101%	70%	130%	121%	80%	120%	99%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952809	EX1-ECWUR5	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-JUN-2024	21-JUN-2024	SE
Arsenic	21-JUN-2024	21-JUN-2024	SE
Barium	21-JUN-2024	21-JUN-2024	SE
Beryllium	21-JUN-2024	21-JUN-2024	SE
Boron	21-JUN-2024	21-JUN-2024	SE
Boron (Hot Water Soluble)	21-JUN-2024	21-JUN-2024	XH
Cadmium	21-JUN-2024	21-JUN-2024	SE
Chromium	21-JUN-2024	21-JUN-2024	SE
Cobalt	21-JUN-2024	21-JUN-2024	SE
Copper	21-JUN-2024	21-JUN-2024	SE
Lead	21-JUN-2024	21-JUN-2024	SE
Molybdenum	21-JUN-2024	21-JUN-2024	SE
Nickel	21-JUN-2024	21-JUN-2024	SE
Selenium	21-JUN-2024	21-JUN-2024	SE
Silver	21-JUN-2024	21-JUN-2024	SE
Thallium	21-JUN-2024	21-JUN-2024	SE
Uranium	21-JUN-2024	21-JUN-2024	SE
Vanadium	21-JUN-2024	21-JUN-2024	SE
Zinc	21-JUN-2024	21-JUN-2024	SE
Chromium, Hexavalent	21-JUN-2024	21-JUN-2024	RC
Mercury	21-JUN-2024	21-JUN-2024	SE

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-JUN-2024	21-JUN-2024	NP
Acenaphthylene	21-JUN-2024	21-JUN-2024	NP
Acenaphthene	21-JUN-2024	21-JUN-2024	NP
Fluorene	21-JUN-2024	21-JUN-2024	NP
Phenanthrene	21-JUN-2024	21-JUN-2024	NP
Anthracene	21-JUN-2024	21-JUN-2024	NP
Fluoranthene	21-JUN-2024	21-JUN-2024	NP
Pyrene	21-JUN-2024	21-JUN-2024	NP
Benzo(a)anthracene	21-JUN-2024	21-JUN-2024	NP
Chrysene	21-JUN-2024	21-JUN-2024	NP
Benzo(b)fluoranthene	21-JUN-2024	21-JUN-2024	NP
Benzo(k)fluoranthene	21-JUN-2024	21-JUN-2024	NP
Benzo(a)pyrene	21-JUN-2024	21-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	21-JUN-2024	21-JUN-2024	NP
Dibenz(a,h)anthracene	21-JUN-2024	21-JUN-2024	NP

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952809	EX1-ECWUR5	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(g,h,i)perylene	21-JUN-2024	21-JUN-2024	NP
2-and 1-methyl Naphthalene	21-JUN-2024	21-JUN-2024	SYS
Naphthalene-d8	21-JUN-2024	21-JUN-2024	NP
Acridine-d9	21-JUN-2024	21-JUN-2024	NP
Terphenyl-d14	21-JUN-2024	21-JUN-2024	NP
Moisture Content	21-JUN-2024	21-JUN-2024	SD

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	21-JUN-2024	21-JUN-2024	CK
Toluene	21-JUN-2024	21-JUN-2024	CK
Ethylbenzene	21-JUN-2024	21-JUN-2024	CK
m & p-Xylene	21-JUN-2024	21-JUN-2024	CK
o-Xylene	21-JUN-2024	21-JUN-2024	CK
Xylenes (Total)	21-JUN-2024	21-JUN-2024	SYS
F1 (C6 to C10)	21-JUN-2024	21-JUN-2024	CK
F1 (C6 to C10) minus BTEX	21-JUN-2024	21-JUN-2024	SYS
Toluene-d8	21-JUN-2024	21-JUN-2024	CK
F2 (C10 to C16)	21-JUN-2024	21-JUN-2024	SS
F2 (C10 to C16) minus Naphthalene	21-JUN-2024	21-JUN-2024	SYS
F3 (C16 to C34)	21-JUN-2024	21-JUN-2024	SS
F3 (C16 to C34) minus PAHs	21-JUN-2024	21-JUN-2024	SYS
F4 (C34 to C50)	21-JUN-2024	21-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	21-JUN-2024	21-JUN-2024	SD
Terphenyl	21-JUN-2024	21-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952814	EX1-ECWLR6	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	21-JUN-2024	21-JUN-2024	MK
F1 (C6 to C10) minus BTEX	21-JUN-2024	21-JUN-2024	SYS
Toluene-d8	21-JUN-2024	21-JUN-2024	MK
F2 (C10 to C16)	21-JUN-2024	21-JUN-2024	SS
F3 (C16 to C34)	21-JUN-2024	21-JUN-2024	SS
F4 (C34 to C50)	21-JUN-2024	21-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	21-JUN-2024	21-JUN-2024	SD

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952814	EX1-ECWLR6	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	21-JUN-2024	21-JUN-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane			
Vinyl Chloride			
Bromomethane			
Trichlorofluoromethane			
Acetone			
1,1-Dichloroethylene			
Methylene Chloride			
Trans- 1,2-Dichloroethylene			
Methyl tert-butyl Ether			
1,1-Dichloroethane			
Methyl Ethyl Ketone			
Cis- 1,2-Dichloroethylene			
Chloroform			
1,2-Dichloroethane			
1,1,1-Trichloroethane			
Carbon Tetrachloride			
Benzene			
1,2-Dichloropropane			
Trichloroethylene			
Bromodichloromethane			
Methyl Isobutyl Ketone			
1,1,2-Trichloroethane			
Toluene			
Dibromochloromethane			
Ethylene Dibromide			
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane			
Chlorobenzene			
Ethylbenzene			
m & p-Xylene			
Bromoform			
Styrene			
1,1,2,2-Tetrachloroethane			
o-Xylene			
1,3-Dichlorobenzene			

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952814	EX1-ECWLR6	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
1,4-Dichlorobenzene			
1,2-Dichlorobenzene			
Xylenes (Total)			SYS
1,3-Dichloropropene (Cis + Trans)			SYS
n-Hexane			
Toluene-d8	21-JUN-2024	21-JUN-2024	MK
4-Bromofluorobenzene	21-JUN-2024	21-JUN-2024	MK
Moisture Content	21-JUN-2024	21-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952816	EX1-ECWFS3	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	21-JUN-2024	21-JUN-2024	MK
F1 (C6 to C10) minus BTEX	21-JUN-2024	21-JUN-2024	SYS
Toluene-d8	21-JUN-2024	21-JUN-2024	MK
F2 (C10 to C16)	21-JUN-2024	21-JUN-2024	SS
F3 (C16 to C34)	21-JUN-2024	21-JUN-2024	SS
F4 (C34 to C50)	21-JUN-2024	21-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	21-JUN-2024	21-JUN-2024	SD
Terphenyl	21-JUN-2024	21-JUN-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane			
Vinyl Chloride			
Bromomethane			
Trichlorofluoromethane			
Acetone			
1,1-Dichloroethylene			
Methylene Chloride			
Trans- 1,2-Dichloroethylene			
Methyl tert-butyl Ether			
1,1-Dichloroethane			
Methyl Ethyl Ketone			
Cis- 1,2-Dichloroethylene			
Chloroform			
1,2-Dichloroethane			

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952816	EX1-ECWFS3	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
1,1,1-Trichloroethane			
Carbon Tetrachloride			
Benzene			
1,2-Dichloropropane			
Trichloroethylene			
Bromodichloromethane			
Methyl Isobutyl Ketone			
1,1,2-Trichloroethane			
Toluene			
Dibromochloromethane			
Ethylene Dibromide			
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane			
Chlorobenzene			
Ethylbenzene			
m & p-Xylene			
Bromoform			
Styrene			
1,1,2,2-Tetrachloroethane			
o-Xylene			
1,3-Dichlorobenzene			
1,4-Dichlorobenzene			
1,2-Dichlorobenzene			
Xylenes (Total)			SYS
1,3-Dichloropropene (Cis + Trans)			SYS
n-Hexane			
Toluene-d8	21-JUN-2024	21-JUN-2024	MK
4-Bromofluorobenzene	21-JUN-2024	21-JUN-2024	MK
Moisture Content	21-JUN-2024	21-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952817	EX1-ECWFS4	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	21-JUN-2024	21-JUN-2024	MK
F1 (C6 to C10) minus BTEX	21-JUN-2024	21-JUN-2024	SYS
Toluene-d8	21-JUN-2024	21-JUN-2024	MK
F2 (C10 to C16)	21-JUN-2024	21-JUN-2024	SS
F3 (C16 to C34)	21-JUN-2024	21-JUN-2024	SS

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952817	EX1-ECWFS4	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F4 (C34 to C50)	21-JUN-2024	21-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	21-JUN-2024	21-JUN-2024	SD
Terphenyl	21-JUN-2024	21-JUN-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane			
Vinyl Chloride			
Bromomethane			
Trichlorofluoromethane			
Acetone			
1,1-Dichloroethylene			
Methylene Chloride			
Trans- 1,2-Dichloroethylene			
Methyl tert-butyl Ether			
1,1-Dichloroethane			
Methyl Ethyl Ketone			
Cis- 1,2-Dichloroethylene			
Chloroform			
1,2-Dichloroethane			
1,1,1-Trichloroethane			
Carbon Tetrachloride			
Benzene			
1,2-Dichloropropane			
Trichloroethylene			
Bromodichloromethane			
Methyl Isobutyl Ketone			
1,1,2-Trichloroethane			
Toluene			
Dibromochloromethane			
Ethylene Dibromide			
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane			
Chlorobenzene			
Ethylbenzene			
m & p-Xylene			
Bromoform			
Styrene			

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952817	EX1-ECWFS4	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
1,1,2,2-Tetrachloroethane			
o-Xylene			
1,3-Dichlorobenzene			
1,4-Dichlorobenzene			
1,2-Dichlorobenzene			
Xylenes (Total)			SYS
1,3-Dichloropropene (Cis + Trans)			SYS
n-Hexane			
Toluene-d8	21-JUN-2024	21-JUN-2024	MK
4-Bromofluorobenzene	21-JUN-2024	21-JUN-2024	MK
Moisture Content	21-JUN-2024	21-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952818	EX1-SWUS9	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-JUN-2024	21-JUN-2024	SE
Arsenic	21-JUN-2024	21-JUN-2024	SE
Barium	21-JUN-2024	21-JUN-2024	SE
Beryllium	21-JUN-2024	21-JUN-2024	SE
Boron	21-JUN-2024	21-JUN-2024	SE
Boron (Hot Water Soluble)	21-JUN-2024	21-JUN-2024	XH
Cadmium	21-JUN-2024	21-JUN-2024	SE
Chromium	21-JUN-2024	21-JUN-2024	SE
Cobalt	21-JUN-2024	21-JUN-2024	SE
Copper	21-JUN-2024	21-JUN-2024	SE
Lead	21-JUN-2024	21-JUN-2024	SE
Molybdenum	21-JUN-2024	21-JUN-2024	SE
Nickel	21-JUN-2024	21-JUN-2024	SE
Selenium	21-JUN-2024	21-JUN-2024	SE
Silver	21-JUN-2024	21-JUN-2024	SE
Thallium	21-JUN-2024	21-JUN-2024	SE
Uranium	21-JUN-2024	21-JUN-2024	SE
Vanadium	21-JUN-2024	21-JUN-2024	SE
Zinc	21-JUN-2024	21-JUN-2024	SE
Chromium, Hexavalent	21-JUN-2024	21-JUN-2024	RC
Mercury	21-JUN-2024	21-JUN-2024	SE

O. Reg. 153(511) - PAHs (Soil)

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952818	EX1-SWUS9	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-JUN-2024	21-JUN-2024	NP
Acenaphthylene	21-JUN-2024	21-JUN-2024	NP
Acenaphthene	21-JUN-2024	21-JUN-2024	NP
Fluorene	21-JUN-2024	21-JUN-2024	NP
Phenanthrene	21-JUN-2024	21-JUN-2024	NP
Anthracene	21-JUN-2024	21-JUN-2024	NP
Fluoranthene	21-JUN-2024	21-JUN-2024	NP
Pyrene	21-JUN-2024	21-JUN-2024	NP
Benzo(a)anthracene	21-JUN-2024	21-JUN-2024	NP
Chrysene	21-JUN-2024	21-JUN-2024	NP
Benzo(b)fluoranthene	21-JUN-2024	21-JUN-2024	NP
Benzo(k)fluoranthene	21-JUN-2024	21-JUN-2024	NP
Benzo(a)pyrene	21-JUN-2024	21-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	21-JUN-2024	21-JUN-2024	NP
Dibenz(a,h)anthracene	21-JUN-2024	21-JUN-2024	NP
Benzo(g,h,i)perylene	21-JUN-2024	21-JUN-2024	NP
2-and 1-methyl Naphthalene	21-JUN-2024	21-JUN-2024	SYS
Naphthalene-d8	21-JUN-2024	21-JUN-2024	NP
Acridine-d9	21-JUN-2024	21-JUN-2024	NP
Terphenyl-d14	21-JUN-2024	21-JUN-2024	NP
Moisture Content	21-JUN-2024	21-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952819	EX1-SWLS10	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene		21-JUN-2024	CK
Toluene		21-JUN-2024	CK
Ethylbenzene		21-JUN-2024	CK
m & p-Xylene		21-JUN-2024	CK
o-Xylene		21-JUN-2024	CK
Xylenes (Total)	21-JUN-2024	21-JUN-2024	SYS
F1 (C6 to C10)		21-JUN-2024	CK
F1 (C6 to C10) minus BTEX	21-JUN-2024	21-JUN-2024	SYS
Toluene-d8	21-JUN-2024	21-JUN-2024	CK
F2 (C10 to C16)	21-JUN-2024	21-JUN-2024	SS
F3 (C16 to C34)	21-JUN-2024	21-JUN-2024	SS
F4 (C34 to C50)	21-JUN-2024	21-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952819	EX1-SWLS10	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Moisture Content	21-JUN-2024	21-JUN-2024	SD
Terphenyl	21-JUN-2024	21-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952820	EX1-FS6	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene		21-JUN-2024	CK
Toluene		21-JUN-2024	CK
Ethylbenzene		21-JUN-2024	CK
m & p-Xylene		21-JUN-2024	CK
o-Xylene		21-JUN-2024	CK
Xylenes (Total)	21-JUN-2024	21-JUN-2024	SYS
F1 (C6 to C10)		21-JUN-2024	CK
F1 (C6 to C10) minus BTEX	21-JUN-2024	21-JUN-2024	SYS
Toluene-d8	21-JUN-2024	21-JUN-2024	CK
F2 (C10 to C16)	21-JUN-2024	21-JUN-2024	SS
F3 (C16 to C34)	21-JUN-2024	21-JUN-2024	SS
F4 (C34 to C50)	21-JUN-2024	21-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	21-JUN-2024	21-JUN-2024	SD
Terphenyl	21-JUN-2024	21-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952821	EX1-FS7	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene		21-JUN-2024	CK
Toluene		21-JUN-2024	CK
Ethylbenzene		21-JUN-2024	CK
m & p-Xylene		21-JUN-2024	CK
o-Xylene		21-JUN-2024	CK
Xylenes (Total)	21-JUN-2024	21-JUN-2024	SYS
F1 (C6 to C10)		21-JUN-2024	CK
F1 (C6 to C10) minus BTEX	21-JUN-2024	21-JUN-2024	SYS
Toluene-d8	21-JUN-2024	21-JUN-2024	CK
F2 (C10 to C16)	21-JUN-2024	21-JUN-2024	SS
F3 (C16 to C34)	21-JUN-2024	21-JUN-2024	SS

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AGAT Laboratories

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AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952821	EX1-FS7	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F4 (C34 to C50)	21-JUN-2024	21-JUN-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	21-JUN-2024	21-JUN-2024	SD
Terphenyl	21-JUN-2024	21-JUN-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952823	DUP21	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-JUN-2024	21-JUN-2024	SE
Arsenic	21-JUN-2024	21-JUN-2024	SE
Barium	21-JUN-2024	21-JUN-2024	SE
Beryllium	21-JUN-2024	21-JUN-2024	SE
Boron	21-JUN-2024	21-JUN-2024	SE
Boron (Hot Water Soluble)	21-JUN-2024	21-JUN-2024	XH
Cadmium	21-JUN-2024	21-JUN-2024	SE
Chromium	21-JUN-2024	21-JUN-2024	SE
Cobalt	21-JUN-2024	21-JUN-2024	SE
Copper	21-JUN-2024	21-JUN-2024	SE
Lead	21-JUN-2024	21-JUN-2024	SE
Molybdenum	21-JUN-2024	21-JUN-2024	SE
Nickel	21-JUN-2024	21-JUN-2024	SE
Selenium	21-JUN-2024	21-JUN-2024	SE
Silver	21-JUN-2024	21-JUN-2024	SE
Thallium	21-JUN-2024	21-JUN-2024	SE
Uranium	21-JUN-2024	21-JUN-2024	SE
Vanadium	21-JUN-2024	21-JUN-2024	SE
Zinc	21-JUN-2024	21-JUN-2024	SE
Chromium, Hexavalent	21-JUN-2024	21-JUN-2024	RC
Mercury	21-JUN-2024	21-JUN-2024	SE

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-JUN-2024	21-JUN-2024	NP
Acenaphthylene	21-JUN-2024	21-JUN-2024	NP
Acenaphthene	21-JUN-2024	21-JUN-2024	NP
Fluorene	21-JUN-2024	21-JUN-2024	NP
Phenanthrene	21-JUN-2024	21-JUN-2024	NP
Anthracene	21-JUN-2024	21-JUN-2024	NP

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Time Markers

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952823	DUP21	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Fluoranthene	21-JUN-2024	21-JUN-2024	NP
Pyrene	21-JUN-2024	21-JUN-2024	NP
Benzo(a)anthracene	21-JUN-2024	21-JUN-2024	NP
Chrysene	21-JUN-2024	21-JUN-2024	NP
Benzo(b)fluoranthene	21-JUN-2024	21-JUN-2024	NP
Benzo(k)fluoranthene	21-JUN-2024	21-JUN-2024	NP
Benzo(a)pyrene	21-JUN-2024	21-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	21-JUN-2024	21-JUN-2024	NP
Dibenz(a,h)anthracene	21-JUN-2024	21-JUN-2024	NP
Benzo(g,h,i)perylene	21-JUN-2024	21-JUN-2024	NP
2-and 1-methyl Naphthalene	21-JUN-2024	21-JUN-2024	SYS
Naphthalene-d8	21-JUN-2024	21-JUN-2024	NP
Acridine-d9	21-JUN-2024	21-JUN-2024	NP
Terphenyl-d14	21-JUN-2024	21-JUN-2024	NP
Moisture Content	21-JUN-2024	21-JUN-2024	SD

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952824	EX1-SWUS3	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-JUN-2024	21-JUN-2024	SE
Arsenic	21-JUN-2024	21-JUN-2024	SE
Barium	21-JUN-2024	21-JUN-2024	SE
Beryllium	21-JUN-2024	21-JUN-2024	SE
Boron	21-JUN-2024	21-JUN-2024	SE
Boron (Hot Water Soluble)	21-JUN-2024	21-JUN-2024	XH
Cadmium	21-JUN-2024	21-JUN-2024	SE
Chromium	21-JUN-2024	21-JUN-2024	SE
Cobalt	21-JUN-2024	21-JUN-2024	SE
Copper	21-JUN-2024	21-JUN-2024	SE
Lead	21-JUN-2024	21-JUN-2024	SE
Molybdenum	21-JUN-2024	21-JUN-2024	SE
Nickel	21-JUN-2024	21-JUN-2024	SE
Selenium	21-JUN-2024	21-JUN-2024	SE
Silver	21-JUN-2024	21-JUN-2024	SE
Thallium	21-JUN-2024	21-JUN-2024	SE
Uranium	21-JUN-2024	21-JUN-2024	SE
Vanadium	21-JUN-2024	21-JUN-2024	SE
Zinc	21-JUN-2024	21-JUN-2024	SE

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Time Markers

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5952824	EX1-SWUS3	Soil	19-JUN-2024	20-JUN-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chromium, Hexavalent	21-JUN-2024	21-JUN-2024	RC
Mercury	21-JUN-2024	21-JUN-2024	SE

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-JUN-2024	21-JUN-2024	NP
Acenaphthylene	21-JUN-2024	21-JUN-2024	NP
Acenaphthene	21-JUN-2024	21-JUN-2024	NP
Fluorene	21-JUN-2024	21-JUN-2024	NP
Phenanthrene	21-JUN-2024	21-JUN-2024	NP
Anthracene	21-JUN-2024	21-JUN-2024	NP
Fluoranthene	21-JUN-2024	21-JUN-2024	NP
Pyrene	21-JUN-2024	21-JUN-2024	NP
Benzo(a)anthracene	21-JUN-2024	21-JUN-2024	NP
Chrysene	21-JUN-2024	21-JUN-2024	NP
Benzo(b)fluoranthene	21-JUN-2024	21-JUN-2024	NP
Benzo(k)fluoranthene	21-JUN-2024	21-JUN-2024	NP
Benzo(a)pyrene	21-JUN-2024	21-JUN-2024	NP
Indeno(1,2,3-cd)pyrene	21-JUN-2024	21-JUN-2024	NP
Dibenz(a,h)anthracene	21-JUN-2024	21-JUN-2024	NP
Benzo(g,h,i)perylene	21-JUN-2024	21-JUN-2024	NP
2-and 1-methyl Naphthalene	21-JUN-2024	21-JUN-2024	SYS
Naphthalene-d8	21-JUN-2024	21-JUN-2024	NP
Acridine-d9	21-JUN-2024	21-JUN-2024	NP
Terphenyl-d14	21-JUN-2024	21-JUN-2024	NP
Moisture Content	21-JUN-2024	21-JUN-2024	SD

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z164646

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

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AGAT Laboratories

RUSH!

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Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 24Z1646446

Cooler Quantity: one - ice packs

Arrival Temperatures: 7.1 | 7.7 | 7.5
6.6 | 5.9 | 5.5

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: F/I

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☒ Res/Park ☐ Agriculture
Soil Texture (Check One): ☐ Coarse ☒ Fine

☐ Excess Soils R406 — Table (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other — Indicate One

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: ~~Pinchin~~ 246991 012
Site Location:
Sampled By:
AGAT Quote #: 50 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☑ CrVI, ☑ Hg, ☑ HWSB	F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
EX1-ECWHR5		AM PM						X	X	X							
EX1-ECWLR6		AM PM							X			X					
EX1-ECWFS3		AM PM							X			X					
EX1-ECWFS4		AM PM							X			X					
EX1-SWLS9		AM PM						X	X No	X							
EX1-SWLS10		AM PM							X								
EX1-FS6		AM PM							X								
EX1-FS7		AM PM							X								
DUP21		AM PM						X		X							
		AM PM															
		AM PM															

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
JMcCann/	6/19/24	515	C. Griffin	06/20/24	08h10
CC to Alicia	06/20/24	15h00	Anmol B	21/6/24	8:33am

Page ____ of ____

Nº: T 129333

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z213832
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager
DATE REPORTED: Oct 31, 2024
PAGES (INCLUDING COVER): 16
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:MK

Ignitability in Soil

DATE RECEIVED: 2024-10-25

DATE REPORTED: 2024-10-31

				SAMPLE DESCRIPTION:	GS-1	GS-2	GS-3
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2024-10-25 08:00	2024-10-25 08:00	2024-10-25 08:00
Parameter	**Unit**	**G / S**	**RDL**		**6264629**	**6264632**	**6264633**
Ignitability					N	N	N

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6264629-6264633 N = Non-Flammable Solid
Non-ignitable-Wet soil sample with pebbles

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

SAMPLING SITE:

ATTENTION TO: Alicia McDonald

SAMPLED BY:MK

O. Reg. 558 - Metals & Inorganics

DATE RECEIVED: 2024-10-25

DATE REPORTED: 2024-10-31

				SAMPLE DESCRIPTION:	GS-1	GS-2	GS-3
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2024-10-25 08:00	2024-10-25 08:00	2024-10-25 08:00
Parameter	Unit	G / S	RDL		6264629	6264632	6264633
Arsenic Leachate	mg/L	2.5	0.010		<0.010	<0.010	<0.010
Barium Leachate	mg/L	100	0.020		0.290	1.40	1.45
Boron Leachate	mg/L	500	0.050		0.059	<0.050	<0.050
Cadmium Leachate	mg/L	0.5	0.010		<0.010	<0.010	<0.010
Chromium Leachate	mg/L	5	0.050		<0.050	<0.050	<0.050
Lead Leachate	mg/L	5	0.010		<0.010	<0.010	<0.010
Mercury Leachate	mg/L	0.1	0.01		<0.01	<0.01	<0.01
Selenium Leachate	mg/L	1	0.020		<0.020	<0.020	<0.020
Silver Leachate	mg/L	5	0.010		<0.010	<0.010	<0.010
Uranium Leachate	mg/L	10	0.050		<0.050	<0.050	<0.050
Fluoride Leachate	mg/L	150	0.10		0.54	0.11	0.34
Cyanide Leachate	mg/L	20	0.05		<0.05	<0.05	<0.05
(Nitrate + Nitrite) as N Leachate	mg/L	1000	0.70		<0.70	<0.70	<0.70

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:MK

pH in Soil

DATE RECEIVED: 2024-10-25

DATE REPORTED: 2024-10-31

				SAMPLE DESCRIPTION:	GS-1	GS-2	GS-3
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2024-10-25 08:00	2024-10-25 08:00	2024-10-25 08:00
Parameter	**Unit**	**G / S**	**RDL**		**6264629**	**6264632**	**6264633**
pH, 2:1 CaCl2 Extraction	pH Units		NA		7.98	7.30	7.20

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6264629-6264633 pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio (2 parts extraction fluid : 1 part soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:MK

O. Reg. 558 - Benzo(a)pyrene

DATE RECEIVED: 2024-10-25

DATE REPORTED: 2024-10-31

				SAMPLE DESCRIPTION:	GS-1	GS-2	GS-3
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2024-10-25 08:00	2024-10-25 08:00	2024-10-25 08:00
Parameter	**Unit**	**G / S**	**RDL**		**6264629**	**6264632**	**6264633**
Benzo(a)pyrene Leachate	mg/L	0.001	0.001		<0.001	<0.001	<0.001
Surrogate	**Unit**	**Acceptable Limits**					
Acridine-d9	%	50-140			74	85	74
Naphthalene-d8	%	50-140			85	74	88
Terphenyl-d14	%	50-140			99	81	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6264629-6264633 The sample was leached according to Regulation 558 protocol. Analysis was performed on the leachate. This is a validated, unaccredited procedure.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:MK

O. Reg. 558 - VOCs

DATE RECEIVED: 2024-10-25

DATE REPORTED: 2024-10-31

		SAMPLE DESCRIPTION:		GS-1	GS-2	GS-3
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-10-25 08:00	2024-10-25 08:00	2024-10-25 08:00
Parameter	**Unit**	**G / S**	**RDL**	**6264629**	**6264632**	**6264633**
Vinyl Chloride Leachate	mg/L	0.2	0.030	<0.030	<0.030	<0.030
1,1 Dichloroethene Leachate	mg/L	1.4	0.020	<0.020	<0.020	<0.020
Dichloromethane Leachate	mg/L	5.0	0.030	<0.030	<0.030	<0.030
Methyl Ethyl Ketone Leachate	mg/L	200	0.090	<0.090	<0.090	<0.090
Chloroform Leachate	mg/L	10.0	0.020	<0.020	<0.020	<0.020
1,2-Dichloroethane Leachate	mg/L	0.5	0.020	<0.020	<0.020	<0.020
Carbon Tetrachloride Leachate	mg/L	0.5	0.020	<0.020	<0.020	<0.020
Benzene Leachate	mg/L	0.5	0.020	<0.020	<0.020	<0.020
Trichloroethene Leachate	mg/L	5.0	0.020	<0.020	<0.020	<0.020
Tetrachloroethene Leachate	mg/L	3.0	0.050	<0.050	<0.050	<0.050
Chlorobenzene Leachate	mg/L	8.0	0.010	<0.010	<0.010	<0.010
1,2-Dichlorobenzene Leachate	mg/L	20.0	0.010	<0.010	<0.010	<0.010
1,4-Dichlorobenzene Leachate	mg/L	0.5	0.010	<0.010	<0.010	<0.010
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	50-140		112	114	112
4-Bromofluorobenzene	% Recovery	50-140		98	94	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6264629-6264633 Sample was prepared using Regulation 558 protocol and a zero headspace extractor.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z213832
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:MK

Soil Analysis

RPT Date: Oct 31, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
pH in Soil															
pH, 2:1 CaCl2 Extraction	6268231		8.75	9.01	3.0%	NA	103%	80%	120%						
Ignitability in Soil															
Ignitability	6264629	6264629	N	N	NA										
O. Reg. 558 - Metals & Inorganics															
Arsenic Leachate	6255381		<0.010	<0.010	NA	< 0.010	101%	70%	130%	103%	80%	120%	107%	70%	130%
Barium Leachate	6255381		0.307	0.302	1.6%	< 0.020	102%	70%	130%	101%	80%	120%	109%	70%	130%
Boron Leachate	6255381		<0.050	<0.050	NA	< 0.050	96%	70%	130%	99%	80%	120%	101%	70%	130%
Cadmium Leachate	6255381		<0.010	<0.010	NA	< 0.010	98%	70%	130%	109%	80%	120%	109%	70%	130%
Chromium Leachate	6255381		<0.050	<0.050	NA	< 0.050	96%	70%	130%	101%	80%	120%	99%	70%	130%
Lead Leachate	6255381		<0.010	<0.010	NA	< 0.010	89%	70%	130%	93%	80%	120%	91%	70%	130%
Mercury Leachate	6255381		<0.01	<0.01	NA	< 0.01	107%	70%	130%	107%	80%	120%	104%	70%	130%
Selenium Leachate	6255381		<0.020	<0.020	NA	< 0.020	102%	70%	130%	126%	80%	120%	126%	70%	130%
Silver Leachate	6255381		<0.010	<0.010	NA	< 0.010	98%	70%	130%	120%	80%	120%	99%	70%	130%
Uranium Leachate	6255381		<0.050	<0.050	NA	< 0.050	96%	70%	130%	109%	80%	120%	104%	70%	130%
Fluoride Leachate	6255381		0.39	0.39	NA	< 0.10	99%	90%	110%	100%	90%	110%	121%	70%	130%
Cyanide Leachate	6255381		<0.05	<0.05	NA	< 0.05	94%	70%	130%	97%	80%	120%	107%	70%	130%
(Nitrate + Nitrite) as N Leachate	6255381		<0.70	<0.70	NA	< 0.70	101%	80%	120%	116%	80%	120%	117%	70%	130%

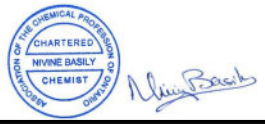
Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Comments: N = Non-Flammable Solid
NA = Not Applicable

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



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Results relate only to the items tested. Results apply to samples as received.

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:MK

Trace Organics Analysis

RPT Date: Oct 31, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 558 - VOCs															
Vinyl Chloride Leachate	6264633	6264633	<0.030	<0.030	NA	< 0.030	69%	50%	140%	111%	50%	140%	117%	50%	140%
1,1 Dichloroethene Leachate	6264633	6264633	<0.020	<0.020	NA	< 0.020	99%	50%	140%	61%	60%	130%	80%	50%	140%
Dichloromethane Leachate	6264633	6264633	<0.030	<0.030	NA	< 0.030	105%	50%	140%	76%	60%	130%	105%	50%	140%
Methyl Ethyl Ketone Leachate	6264633	6264633	<0.090	<0.090	NA	< 0.090	109%	50%	140%	82%	50%	140%	106%	50%	140%
Chloroform Leachate	6264633	6264633	<0.020	<0.020	NA	< 0.020	80%	50%	140%	65%	60%	130%	75%	50%	140%
1,2-Dichloroethane Leachate	6264633	6264633	<0.020	<0.020	NA	< 0.020	94%	50%	140%	74%	60%	130%	101%	50%	140%
Carbon Tetrachloride Leachate	6264633	6264633	<0.020	<0.020	NA	< 0.020	73%	50%	140%	64%	60%	130%	73%	50%	140%
Benzene Leachate	6264633	6264633	<0.020	<0.020	NA	< 0.020	113%	50%	140%	99%	60%	130%	96%	50%	140%
Trichloroethene Leachate	6264633	6264633	<0.020	<0.020	NA	< 0.020	102%	50%	140%	71%	60%	130%	96%	50%	140%
Tetrachloroethene Leachate	6264633	6264633	<0.050	<0.050	NA	< 0.050	110%	50%	140%	78%	60%	130%	102%	50%	140%
Chlorobenzene Leachate	6264633	6264633	<0.010	<0.010	NA	< 0.010	110%	50%	140%	71%	60%	130%	90%	50%	140%
1,2-Dichlorobenzene Leachate	6264633	6264633	<0.010	<0.010	NA	< 0.010	111%	50%	140%	76%	60%	130%	95%	50%	140%
1,4-Dichlorobenzene Leachate	6264633	6264633	<0.010	<0.010	NA	< 0.010	110%	50%	140%	76%	60%	130%	93%	50%	140%
O. Reg. 558 - Benzo(a)pyrene															
Benzo(a)pyrene Leachate	6261458		< 0.001	< 0.001	NA	< 0.001	73%	50%	140%	79%	50%	140%	88%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: R. Chakraberty

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Results relate only to the items tested. Results apply to samples as received.

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Oct 31, 2024		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 558 - Metals & Inorganics										
Selenium Leachate		102%	70%	130%	126%	80%	120%	126%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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Results relate only to the items tested. Results apply to samples as received.

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Time Markers

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6264629	GS-1	Soil	25-OCT-2024	25-OCT-2024

Ignitability in Soil

Parameter	Date Prepared	Date Analyzed	Initials
Ignitability	30-OCT-2024		MPJ

O. Reg. 558 - Benzo(a)pyrene

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(a)pyrene Leachate	31-OCT-2024	31-OCT-2024	JJ
Acridine-d9			
Naphthalene-d8			
Terphenyl-d14			

O. Reg. 558 - Metals & Inorganics

Parameter	Date Prepared	Date Analyzed	Initials
Arsenic Leachate	30-OCT-2024	30-OCT-2024	SE
Barium Leachate	30-OCT-2024	30-OCT-2024	SE
Boron Leachate	30-OCT-2024	30-OCT-2024	SE
Cadmium Leachate	30-OCT-2024	30-OCT-2024	SE
Chromium Leachate	30-OCT-2024	30-OCT-2024	SE
Lead Leachate	30-OCT-2024	30-OCT-2024	SE
Mercury Leachate	30-OCT-2024	30-OCT-2024	SE
Selenium Leachate	30-OCT-2024	30-OCT-2024	SE
Silver Leachate	30-OCT-2024	30-OCT-2024	SE
Uranium Leachate	30-OCT-2024	30-OCT-2024	SE
Fluoride Leachate	29-OCT-2024	29-OCT-2024	NK
Cyanide Leachate	29-OCT-2024	29-OCT-2024	BG
(Nitrate + Nitrite) as N Leachate	29-OCT-2024	29-OCT-2024	RS

O. Reg. 558 - VOCs

Parameter	Date Prepared	Date Analyzed	Initials
Vinyl Chloride Leachate	31-OCT-2024	31-OCT-2024	MK
1,1 Dichloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Dichloromethane Leachate	31-OCT-2024	31-OCT-2024	MK
Methyl Ethyl Ketone Leachate	31-OCT-2024	31-OCT-2024	MK
Chloroform Leachate	31-OCT-2024	31-OCT-2024	MK
1,2-Dichloroethane Leachate	31-OCT-2024	31-OCT-2024	MK
Carbon Tetrachloride Leachate	31-OCT-2024	31-OCT-2024	MK
Benzene Leachate	31-OCT-2024	31-OCT-2024	MK
Trichloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Tetrachloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Chlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK
1,2-Dichlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6264629	GS-1	Soil	25-OCT-2024	25-OCT-2024

O. Reg. 558 - VOCs

Parameter	Date Prepared	Date Analyzed	Initials
1,4-Dichlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK
Toluene-d8	31-OCT-2024	31-OCT-2024	MK
4-Bromofluorobenzene	31-OCT-2024	31-OCT-2024	MK

pH in Soil

Parameter	Date Prepared	Date Analyzed	Initials
pH, 2:1 CaCl2 Extraction	29-OCT-2024	29-OCT-2024	XL

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6264632	GS-2	Soil	25-OCT-2024	25-OCT-2024

Ignitability in Soil

Parameter	Date Prepared	Date Analyzed	Initials
Ignitability	30-OCT-2024		MPJ

O. Reg. 558 - Benzo(a)pyrene

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(a)pyrene Leachate	31-OCT-2024	31-OCT-2024	JJ
Acridine-d9			
Naphthalene-d8			
Terphenyl-d14			

O. Reg. 558 - Metals & Inorganics

Parameter	Date Prepared	Date Analyzed	Initials
Arsenic Leachate	30-OCT-2024	30-OCT-2024	SE
Barium Leachate	30-OCT-2024	30-OCT-2024	SE
Boron Leachate	30-OCT-2024	30-OCT-2024	SE
Cadmium Leachate	30-OCT-2024	30-OCT-2024	SE
Chromium Leachate	30-OCT-2024	30-OCT-2024	SE
Lead Leachate	30-OCT-2024	30-OCT-2024	SE
Mercury Leachate	30-OCT-2024	30-OCT-2024	SE
Selenium Leachate	30-OCT-2024	30-OCT-2024	SE
Silver Leachate	30-OCT-2024	30-OCT-2024	SE
Uranium Leachate	30-OCT-2024	30-OCT-2024	SE
Fluoride Leachate	29-OCT-2024	29-OCT-2024	NK
Cyanide Leachate	29-OCT-2024	29-OCT-2024	BG
(Nitrate + Nitrite) as N Leachate	29-OCT-2024	29-OCT-2024	RS

O. Reg. 558 - VOCs

Parameter	Date Prepared	Date Analyzed	Initials

Results relate only to the items tested. Results apply to samples as received.

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Time Markers

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6264632	GS-2	Soil	25-OCT-2024	25-OCT-2024

O. Reg. 558 - VOCs

Parameter	Date Prepared	Date Analyzed	Initials
Vinyl Chloride Leachate	31-OCT-2024	31-OCT-2024	MK
1,1 Dichloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Dichloromethane Leachate	31-OCT-2024	31-OCT-2024	MK
Methyl Ethyl Ketone Leachate	31-OCT-2024	31-OCT-2024	MK
Chloroform Leachate	31-OCT-2024	31-OCT-2024	MK
1,2-Dichloroethane Leachate	31-OCT-2024	31-OCT-2024	MK
Carbon Tetrachloride Leachate	31-OCT-2024	31-OCT-2024	MK
Benzene Leachate	31-OCT-2024	31-OCT-2024	MK
Trichloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Tetrachloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Chlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK
1,2-Dichlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK
1,4-Dichlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK
Toluene-d8	31-OCT-2024	31-OCT-2024	MK
4-Bromofluorobenzene	31-OCT-2024	31-OCT-2024	MK

pH in Soil

Parameter	Date Prepared	Date Analyzed	Initials
pH, 2:1 CaCl2 Extraction	29-OCT-2024	29-OCT-2024	XL

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6264633	GS-3	Soil	25-OCT-2024	25-OCT-2024

Ignitability in Soil

Parameter	Date Prepared	Date Analyzed	Initials
Ignitability	30-OCT-2024		MPJ

O. Reg. 558 - Benzo(a)pyrene

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(a)pyrene Leachate	31-OCT-2024	31-OCT-2024	JJ
Acridine-d9			
Naphthalene-d8			
Terphenyl-d14			

O. Reg. 558 - Metals & Inorganics

Parameter	Date Prepared	Date Analyzed	Initials
Arsenic Leachate	30-OCT-2024	30-OCT-2024	SE
Barium Leachate	30-OCT-2024	30-OCT-2024	SE
Boron Leachate	30-OCT-2024	30-OCT-2024	SE
Cadmium Leachate	30-OCT-2024	30-OCT-2024	SE

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6264633	GS-3	Soil	25-OCT-2024	25-OCT-2024

O. Reg. 558 - Metals & Inorganics

Parameter	Date Prepared	Date Analyzed	Initials
Chromium Leachate	30-OCT-2024	30-OCT-2024	SE
Lead Leachate	30-OCT-2024	30-OCT-2024	SE
Mercury Leachate	30-OCT-2024	30-OCT-2024	SE
Selenium Leachate	30-OCT-2024	30-OCT-2024	SE
Silver Leachate	30-OCT-2024	30-OCT-2024	SE
Uranium Leachate	30-OCT-2024	30-OCT-2024	SE
Fluoride Leachate	29-OCT-2024	29-OCT-2024	NK
Cyanide Leachate	29-OCT-2024	29-OCT-2024	BG
(Nitrate + Nitrite) as N Leachate	29-OCT-2024	29-OCT-2024	RS

O. Reg. 558 - VOCs

Parameter	Date Prepared	Date Analyzed	Initials
Vinyl Chloride Leachate	31-OCT-2024	31-OCT-2024	MK
1,1 Dichloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Dichloromethane Leachate	31-OCT-2024	31-OCT-2024	MK
Methyl Ethyl Ketone Leachate	31-OCT-2024	31-OCT-2024	MK
Chloroform Leachate	31-OCT-2024	31-OCT-2024	MK
1,2-Dichloroethane Leachate	31-OCT-2024	31-OCT-2024	MK
Carbon Tetrachloride Leachate	31-OCT-2024	31-OCT-2024	MK
Benzene Leachate	31-OCT-2024	31-OCT-2024	MK
Trichloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Tetrachloroethene Leachate	31-OCT-2024	31-OCT-2024	MK
Chlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK
1,2-Dichlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK
1,4-Dichlorobenzene Leachate	31-OCT-2024	31-OCT-2024	MK
Toluene-d8	31-OCT-2024	31-OCT-2024	MK
4-Bromofluorobenzene	31-OCT-2024	31-OCT-2024	MK

pH in Soil

Parameter	Date Prepared	Date Analyzed	Initials
pH, 2:1 CaCl2 Extraction	29-OCT-2024	29-OCT-2024	XL

Results relate only to the items tested. Results apply to samples as received.

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:MK

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Ignitability	INOR-93-6063	EPA SW-846 1030	BURN MOLD
Arsenic Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Barium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Boron Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Cadmium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Chromium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Lead Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Mercury Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Selenium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Silver Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Uranium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Fluoride Leachate	INOR-93-6000	EPA SW 846-1311; SM 4500F-C	ION SELECTIVE ELECTRODE
Cyanide Leachate	INOR-93-6052	EPA 1311 modified from MOE 3015 SM 4500 CN-I,G387	SEGMENTED FLOW ANALYSIS
(Nitrate + Nitrite) as N Leachate	INOR-93-6053	EPA SW 846-1311 & modified from SM 4500 - NO3- I	LACHAT FIA
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z213832

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:MK

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzo(a)pyrene Leachate	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Vinyl Chloride Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,1 Dichloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Dichloromethane Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Chloroform Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Benzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Trichloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Tetrachloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Chlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 24221383 2

Cooler Quantity: one - no ice packs

Arrival Temperatures: 26.5 | 26.6 | 26.7

~~Depot~~ Temperatures: 9.1 | 9.5 | 9.5

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: melted

Report Information:

Company: Pinchin Ltd.
Contact: Alicia McDonald
Address: Kingston, ON
Phone: 613-840-6147 Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Regulation 406
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☑ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: 267991.012
Site Location:
Sampled By: MK
AGAT Quote #: S.O. 2024 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:
Contact:
Address:
Email:

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ B(a)P ☐ PCBs TCLP: ☑ M&I ☑ VOCs ☐ ABNs	Corrosivity: ☐ Moisture ☐ Sulphide	Ignitability	pH					Potentially Hazardous or High Concentration (Y/N)
1. GS-1	Oct 25/24	8:00 AM/PM	2	S												☑		☑	☑					
2. GS-2	Oct 25/24	8:00 AM/PM	2	S												☑		☑	☑					
3. GS-3	Oct 25/24	8:00 AM/PM	2	S												☑		☑	☑					
4.		AM/PM																						
5.		AM/PM																						
6.		AM/PM																						
7.		AM/PM																						
8.		AM/PM																						
9.		AM/PM																						
10.		AM/PM																						
11.		AM/PM																						

Samples Relinquished By (Print Name and Sign): Megan Keon	Date: Oct 25/24	Time: 3:20pm	Samples Received By (Print Name and Sign):	Date: 10/25/24	Time: 15h30
Samples Relinquished By (Print Name and Sign):	Date: 10/25/24	Time: 15h30	Samples Received By (Print Name and Sign):	Date: Oct 28	Time: 9:15h
Samples Relinquished By (Print Name and Sign):	Date:	Time:	Samples Received By (Print Name and Sign):	Date:	Time:

Page ____ of ____

No:

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Document ID: DIV-78-1511 023

Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document.

Date Issued: Jan 18, 2024

AGAT Laboratories

5835 COOPERS AVENUE
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CANADA L4Z 1Y2
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http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z218830
TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor
DATE REPORTED: Nov 11, 2024
PAGES (INCLUDING COVER): 6
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z218830

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-07

DATE REPORTED: 2024-11-11

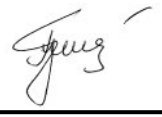
		SAMPLE DESCRIPTION:		EX1-FS2BR1	EX1-FS2BR2	EX1-FS3BR1
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-07	2024-11-07	2024-11-07
Parameter	**Unit**	**G / S**	**RDL**	**6306512**	**6306513**	**6306514**
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	97
F3 (C16 to C34)	µg/g	1300	50	<50	<50	**3270**
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA
Moisture Content	%		0.1	10.9	12.1	11.5
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	60-140		80	100	74
Terphenyl	%	60-140		89	80	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6306512-6306514 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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FAX (905)712-5122
http://www.agatlabs.com

Exceedance Summary

AGAT WORK ORDER: 24Z218830

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6306514	EX1-FS3BR1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F3 (C16 to C34)	µg/g	1300	3270

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z218830

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Nov 11, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
F1 (C6 to C10)	6291425		<5	<5	NA	< 5	86%	60%	140%	86%	60%	140%	94%	60%	140%
F2 (C10 to C16)	6291481		< 10	< 10	NA	< 10	107%	60%	140%	112%	60%	140%	126%	60%	140%
F3 (C16 to C34)	6291481		< 50	< 50	NA	< 50	105%	60%	140%	129%	60%	140%	128%	60%	140%
F4 (C34 to C50)	6291481		< 50	< 50	NA	< 50	85%	60%	140%	122%	60%	140%	120%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By:

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Results relate only to the items tested. Results apply to samples as received.

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z218830

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

RUSH!

Have feedback? Scan here for a quick survey!

5835 Coopers Avenue
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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267441.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☑ Fine

☐ Regulation 406
Table ____ (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)?** ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24721883O

Cooler Quantity: n/a - no ice packs
Arrival Temperatures: 9.1 9.3 9.4
Depot Temperatures: 20.2 20.1 20.6
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: B/I - IL

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ vOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX1-FS2BR1	11/7/24	AM/PM	2	S					X									
2. EX1-FS2BR2	11/7/24	AM/PM	2	S					X									
3. EX1-FS3BR1	11/9/24	AM/PM	2	S					X									
4.		AM/PM																
5.		AM/PM																
6.		AM/PM																
7.		AM/PM																
8.		AM/PM																
9.		AM/PM																
10.		AM/PM																
11.		AM/PM																

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
JMccann	11/7/24	4:35p		11/07/24	16h37
CC to Dan Lo	11/08/24	15h00	Dan Lo	11/09/24	11:45

Page 1 of 1

N°: T-153894

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Document ID: DIV-78-1541-023 Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agatlabs.com/termsandconditions unless otherwise agreed in a current written contractual document. Rev. 2024

AGAT Laboratories

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z218831
SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead
DATE REPORTED: Nov 11, 2024
PAGES (INCLUDING COVER): 10
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 24Z218831

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-07

DATE REPORTED: 2024-11-11

SAMPLE DESCRIPTION:				EX7-WWS4	EX7-SWS5	EX7-NWWS6	EX7-FS3	EX7-FS4	DUP28
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-11-07 12:00	2024-11-07 12:00	2024-11-07 12:00	2024-11-07 12:00	2024-11-07 12:00	2024-11-07 12:00
Parameter	Unit	G / S	RDL	6306506	6306507	6306508	6306509	6306510	6306511
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	1	2	3	2	2	3
Barium	µg/g	390	2.0	48.8	90.9	140	58.9	76.0	136
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.16	0.11	0.15	0.26	0.17	0.14
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	23	17	28	22	20	26
Cobalt	µg/g	22	0.8	6.0	6.9	6.8	7.1	7.2	6.5
Copper	µg/g	180	1.0	12.3	17.1	17.9	15.0	44.2	19.1
Lead	µg/g	120	1	5	7	81	8	10	88
Molybdenum	µg/g	6.9	0.5	<0.5	1.5	<0.5	<0.5	0.7	<0.5
Nickel	µg/g	130	1	13	15	15	14	15	15
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.90	0.85	0.73	1.03	0.85	0.65
Vanadium	µg/g	86	2.0	27.4	26.0	30.3	28.2	28.4	29.1
Zinc	µg/g	340	5	27	31	89	31	34	91
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	0.10	<0.10	<0.10	0.10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z218831

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Nov 11, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6302588		<0.8	<0.8	NA	< 0.8	87%	70%	130%	96%	80%	120%	102%	70%	130%
Arsenic	6302588		4	4	NA	< 1	114%	70%	130%	83%	80%	120%	82%	70%	130%
Barium	6302588		75.0	91.9	20.3%	< 2.0	109%	70%	130%	97%	80%	120%	100%	70%	130%
Beryllium	6302588		0.7	0.8	NA	< 0.5	107%	70%	130%	112%	80%	120%	117%	70%	130%
Boron	6302588		6	8	NA	< 5	87%	70%	130%	102%	80%	120%	91%	70%	130%
Boron (Hot Water Soluble)	6302588		0.15	0.15	NA	< 0.10	124%	60%	140%	97%	70%	130%	107%	60%	140%
Cadmium	6302588		<0.5	<0.5	NA	< 0.5	86%	70%	130%	92%	80%	120%	94%	70%	130%
Chromium	6302588		21	25	NA	< 5	99%	70%	130%	92%	80%	120%	NA	70%	130%
Cobalt	6302588		9.7	11.5	17.0%	< 0.8	100%	70%	130%	91%	80%	120%	90%	70%	130%
Copper	6302588		24.1	28.5	16.7%	< 1.0	101%	70%	130%	95%	80%	120%	88%	70%	130%
Lead	6302588		11	14	24.0%	< 1	114%	70%	130%	98%	80%	120%	99%	70%	130%
Molybdenum	6302588		<0.5	<0.5	NA	< 0.5	102%	70%	130%	95%	80%	120%	95%	70%	130%
Nickel	6302588		20	24	18.2%	< 1	100%	70%	130%	93%	80%	120%	90%	70%	130%
Selenium	6302588		<0.8	<0.8	NA	< 0.8	68%	70%	130%	97%	80%	120%	93%	70%	130%
Silver	6302588		<0.5	<0.5	NA	< 0.5	102%	70%	130%	93%	80%	120%	92%	70%	130%
Thallium	6302588		<0.5	<0.5	NA	< 0.5	100%	70%	130%	97%	80%	120%	97%	70%	130%
Uranium	6302588		0.64	0.78	NA	< 0.50	106%	70%	130%	92%	80%	120%	94%	70%	130%
Vanadium	6302588		28.1	34.6	20.7%	< 2.0	117%	70%	130%	85%	80%	120%	95%	70%	130%
Zinc	6302588		55	63	13.6%	< 5	112%	70%	130%	98%	80%	120%	NA	70%	130%
Chromium, Hexavalent	6306457		<0.2	<0.2	NA	< 0.2	90%	70%	130%	86%	80%	120%	71%	70%	130%
Mercury	6302588		<0.10	<0.10	NA	< 0.10	105%	70%	130%	97%	80%	120%	100%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Certified By:



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Results relate only to the items tested. Results apply to samples as received.

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http://www.agatlabs.com

QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z218831

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Nov 11, 2024

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)										
Selenium		68%	70%	130%	97%	80%	120%	93%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

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Results relate only to the items tested. Results apply to samples as received.

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http://www.agatlabs.com

Time Markers

AGAT WORK ORDER: 24Z218831

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306506	EX7-WWS4	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-NOV-2024	11-NOV-2024	JA
Arsenic	11-NOV-2024	11-NOV-2024	JA
Barium	11-NOV-2024	11-NOV-2024	JA
Beryllium	11-NOV-2024	11-NOV-2024	JA
Boron	11-NOV-2024	11-NOV-2024	JA
Boron (Hot Water Soluble)	11-NOV-2024	11-NOV-2024	AA
Cadmium	11-NOV-2024	11-NOV-2024	JA
Chromium	11-NOV-2024	11-NOV-2024	JA
Cobalt	11-NOV-2024	11-NOV-2024	JA
Copper	11-NOV-2024	11-NOV-2024	JA
Lead	11-NOV-2024	11-NOV-2024	JA
Molybdenum	11-NOV-2024	11-NOV-2024	JA
Nickel	11-NOV-2024	11-NOV-2024	JA
Selenium	11-NOV-2024	11-NOV-2024	JA
Silver	11-NOV-2024	11-NOV-2024	JA
Thallium	11-NOV-2024	11-NOV-2024	JA
Uranium	11-NOV-2024	11-NOV-2024	JA
Vanadium	11-NOV-2024	11-NOV-2024	JA
Zinc	11-NOV-2024	11-NOV-2024	JA
Chromium, Hexavalent	11-NOV-2024	11-NOV-2024	RC
Mercury	11-NOV-2024	11-NOV-2024	JA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306507	EX7-SWS5	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-NOV-2024	11-NOV-2024	JA
Arsenic	11-NOV-2024	11-NOV-2024	JA
Barium	11-NOV-2024	11-NOV-2024	JA
Beryllium	11-NOV-2024	11-NOV-2024	JA
Boron	11-NOV-2024	11-NOV-2024	JA
Boron (Hot Water Soluble)	11-NOV-2024	11-NOV-2024	AA
Cadmium	11-NOV-2024	11-NOV-2024	JA
Chromium	11-NOV-2024	11-NOV-2024	JA
Cobalt	11-NOV-2024	11-NOV-2024	JA
Copper	11-NOV-2024	11-NOV-2024	JA
Lead	11-NOV-2024	11-NOV-2024	JA
Molybdenum	11-NOV-2024	11-NOV-2024	JA
Nickel	11-NOV-2024	11-NOV-2024	JA

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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http://www.agatlabs.com

Time Markers

AGAT WORK ORDER: 24Z218831

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306507	EX7-SWS5	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	11-NOV-2024	11-NOV-2024	JA
Silver	11-NOV-2024	11-NOV-2024	JA
Thallium	11-NOV-2024	11-NOV-2024	JA
Uranium	11-NOV-2024	11-NOV-2024	JA
Vanadium	11-NOV-2024	11-NOV-2024	JA
Zinc	11-NOV-2024	11-NOV-2024	JA
Chromium, Hexavalent	11-NOV-2024	11-NOV-2024	RC
Mercury	11-NOV-2024	11-NOV-2024	JA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306508	EX7-NWWS6	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-NOV-2024	11-NOV-2024	JA
Arsenic	11-NOV-2024	11-NOV-2024	JA
Barium	11-NOV-2024	11-NOV-2024	JA
Beryllium	11-NOV-2024	11-NOV-2024	JA
Boron	11-NOV-2024	11-NOV-2024	JA
Boron (Hot Water Soluble)	11-NOV-2024	11-NOV-2024	AA
Cadmium	11-NOV-2024	11-NOV-2024	JA
Chromium	11-NOV-2024	11-NOV-2024	JA
Cobalt	11-NOV-2024	11-NOV-2024	JA
Copper	11-NOV-2024	11-NOV-2024	JA
Lead	11-NOV-2024	11-NOV-2024	JA
Molybdenum	11-NOV-2024	11-NOV-2024	JA
Nickel	11-NOV-2024	11-NOV-2024	JA
Selenium	11-NOV-2024	11-NOV-2024	JA
Silver	11-NOV-2024	11-NOV-2024	JA
Thallium	11-NOV-2024	11-NOV-2024	JA
Uranium	11-NOV-2024	11-NOV-2024	JA
Vanadium	11-NOV-2024	11-NOV-2024	JA
Zinc	11-NOV-2024	11-NOV-2024	JA
Chromium, Hexavalent	11-NOV-2024	11-NOV-2024	RC
Mercury	11-NOV-2024	11-NOV-2024	JA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306509	EX7-FS3	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Results relate only to the items tested. Results apply to samples as received.

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Time Markers

AGAT WORK ORDER: 24Z218831

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306509	EX7-FS3	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-NOV-2024	11-NOV-2024	JA
Arsenic	11-NOV-2024	11-NOV-2024	JA
Barium	11-NOV-2024	11-NOV-2024	JA
Beryllium	11-NOV-2024	11-NOV-2024	JA
Boron	11-NOV-2024	11-NOV-2024	JA
Boron (Hot Water Soluble)	11-NOV-2024	11-NOV-2024	AA
Cadmium	11-NOV-2024	11-NOV-2024	JA
Chromium	11-NOV-2024	11-NOV-2024	JA
Cobalt	11-NOV-2024	11-NOV-2024	JA
Copper	11-NOV-2024	11-NOV-2024	JA
Lead	11-NOV-2024	11-NOV-2024	JA
Molybdenum	11-NOV-2024	11-NOV-2024	JA
Nickel	11-NOV-2024	11-NOV-2024	JA
Selenium	11-NOV-2024	11-NOV-2024	JA
Silver	11-NOV-2024	11-NOV-2024	JA
Thallium	11-NOV-2024	11-NOV-2024	JA
Uranium	11-NOV-2024	11-NOV-2024	JA
Vanadium	11-NOV-2024	11-NOV-2024	JA
Zinc	11-NOV-2024	11-NOV-2024	JA
Chromium, Hexavalent	11-NOV-2024	11-NOV-2024	RC
Mercury	11-NOV-2024	11-NOV-2024	JA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306510	EX7-FS4	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-NOV-2024	11-NOV-2024	JA
Arsenic	11-NOV-2024	11-NOV-2024	JA
Barium	11-NOV-2024	11-NOV-2024	JA
Beryllium	11-NOV-2024	11-NOV-2024	JA
Boron	11-NOV-2024	11-NOV-2024	JA
Boron (Hot Water Soluble)	11-NOV-2024	11-NOV-2024	AA
Cadmium	11-NOV-2024	11-NOV-2024	JA
Chromium	11-NOV-2024	11-NOV-2024	JA
Cobalt	11-NOV-2024	11-NOV-2024	JA
Copper	11-NOV-2024	11-NOV-2024	JA
Lead	11-NOV-2024	11-NOV-2024	JA
Molybdenum	11-NOV-2024	11-NOV-2024	JA
Nickel	11-NOV-2024	11-NOV-2024	JA

Results relate only to the items tested. Results apply to samples as received.

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Time Markers

AGAT WORK ORDER: 24Z218831

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306510	EX7-FS4	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	11-NOV-2024	11-NOV-2024	JA
Silver	11-NOV-2024	11-NOV-2024	JA
Thallium	11-NOV-2024	11-NOV-2024	JA
Uranium	11-NOV-2024	11-NOV-2024	JA
Vanadium	11-NOV-2024	11-NOV-2024	JA
Zinc	11-NOV-2024	11-NOV-2024	JA
Chromium, Hexavalent	11-NOV-2024	11-NOV-2024	RC
Mercury	11-NOV-2024	11-NOV-2024	JA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6306511	DUP28	Soil	07-NOV-2024	07-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	11-NOV-2024	11-NOV-2024	JA
Arsenic	11-NOV-2024	11-NOV-2024	JA
Barium	11-NOV-2024	11-NOV-2024	JA
Beryllium	11-NOV-2024	11-NOV-2024	JA
Boron	11-NOV-2024	11-NOV-2024	JA
Boron (Hot Water Soluble)	11-NOV-2024	11-NOV-2024	AA
Cadmium	11-NOV-2024	11-NOV-2024	JA
Chromium	11-NOV-2024	11-NOV-2024	JA
Cobalt	11-NOV-2024	11-NOV-2024	JA
Copper	11-NOV-2024	11-NOV-2024	JA
Lead	11-NOV-2024	11-NOV-2024	JA
Molybdenum	11-NOV-2024	11-NOV-2024	JA
Nickel	11-NOV-2024	11-NOV-2024	JA
Selenium	11-NOV-2024	11-NOV-2024	JA
Silver	11-NOV-2024	11-NOV-2024	JA
Thallium	11-NOV-2024	11-NOV-2024	JA
Uranium	11-NOV-2024	11-NOV-2024	JA
Vanadium	11-NOV-2024	11-NOV-2024	JA
Zinc	11-NOV-2024	11-NOV-2024	JA
Chromium, Hexavalent	11-NOV-2024	11-NOV-2024	RC
Mercury	11-NOV-2024	11-NOV-2024	JA

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z218831

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

RUSH!

Have feedback? Scan here for a quick survey!

5835 Coopers Avenue
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Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 2607991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☒ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☒ Fine

☐ Regulation 406
Table ____ (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24721883 1
Cooler Quantity: n/a - no ice packs
Arrival Temperatures: 19.1 19.3 19.4
Depot Temperatures: 22.3 22.4 22.2
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: B/L - U

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Arochlors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. Ex7 - NWS4	7/11/24	P AM PM	1	S				X										
2. Ex7 - SW55	"	P AM PM	1	S				X										
3. Ex7 - NWS6	"	P AM PM	1	S				X										
4. Ex7 - FS3	"	P AM PM	1	S				X										
5. Ex7 - FS4	7/11/24	P AM PM	1	S				X										
6. DUP 28	7/11/24	P AM PM	1	S				X										
7.		AM PM																
8.		AM PM																
9.		AM PM																
10.		AM PM																
11.		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
J.McCann	7/11/24	440	C. Cuthbertson	11/07/24	16h37
CC to DHL	11/08/24	15h10	J. Sousa	11/09/24	11:45
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 1

N°: T-153847

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Document ID: DW-76-1511-022

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Date Issued: Jan 16, 2024

AGAT Laboratories

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z219510
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
DATE REPORTED: Nov 12, 2024
PAGES (INCLUDING COVER): 9
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
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- *The test results reported herewith relate only to the samples as received by the laboratory.*
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- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z219510

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-12

		SAMPLE DESCRIPTION:		EX7-NEW57	EX7-EW58	EX7-FS5	EX1-EWUS23	EX1-EWLS24
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-08	2024-11-08	2024-11-08	2024-11-08	2024-11-08
Parameter	Unit	G / S	RDL	6311660	6311661	6311662	6311663	6313202
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	<1	1	<1	<1	<1
Barium	µg/g	390	2.0	41.0	68.6	57.7	37.7	100
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	<0.10	0.13	0.13	<0.10	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	10	19	12	12	37
Cobalt	µg/g	22	0.8	3.3	5.9	4.6	3.6	7.6
Copper	µg/g	180	1.0	8.1	12.7	10.4	11.8	18.3
Lead	µg/g	120	1	3	7	4	3	5
Molybdenum	µg/g	6.9	0.5	0.5	0.8	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	5	12	8	7	20
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.51	0.85	0.63	0.66	0.77
Vanadium	µg/g	86	2.0	17.5	26.3	21.3	20.7	36.3
Zinc	µg/g	340	5	14	29	20	18	42
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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5835 COOPERS AVENUE
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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219510

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

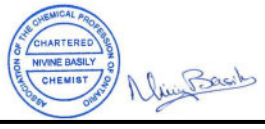
SAMPLED BY:

Soil Analysis

RPT Date: Nov 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6305991		<0.8	<0.8	NA	< 0.8	105%	70%	130%	86%	80%	120%	72%	70%	130%
Arsenic	6305991		2	2	NA	< 1	116%	70%	130%	88%	80%	120%	96%	70%	130%
Barium	6305991		55.7	56.5	1.4%	< 2.0	95%	70%	130%	92%	80%	120%	97%	70%	130%
Beryllium	6305991		<0.5	<0.5	NA	< 0.5	101%	70%	130%	103%	80%	120%	118%	70%	130%
Boron	6305991		<5	<5	NA	< 5	76%	70%	130%	94%	80%	120%	92%	70%	130%
Boron (Hot Water Soluble)	6306978		0.20	0.20	NA	< 0.10	108%	60%	140%	99%	70%	130%	106%	60%	140%
Cadmium	6305991		<0.5	<0.5	NA	< 0.5	94%	70%	130%	101%	80%	120%	106%	70%	130%
Chromium	6305991		17	17	NA	< 5	90%	70%	130%	91%	80%	120%	95%	70%	130%
Cobalt	6305991		6.2	5.9	5.0%	< 0.8	93%	70%	130%	85%	80%	120%	93%	70%	130%
Copper	6305991		13.7	14.5	5.7%	< 1.0	100%	70%	130%	94%	80%	120%	93%	70%	130%
Lead	6305991		11	11	0.0%	< 1	109%	70%	130%	93%	80%	120%	101%	70%	130%
Molybdenum	6305991		<0.5	<0.5	NA	< 0.5	122%	70%	130%	99%	80%	120%	103%	70%	130%
Nickel	6305991		11	11	0.0%	< 1	95%	70%	130%	84%	80%	120%	92%	70%	130%
Selenium	6305991		0.8	<0.8	NA	< 0.8	100%	70%	130%	93%	80%	120%	99%	70%	130%
Silver	6305991		<0.5	<0.5	NA	< 0.5	123%	70%	130%	96%	80%	120%	101%	70%	130%
Thallium	6305991		<0.5	<0.5	NA	< 0.5	88%	70%	130%	100%	80%	120%	101%	70%	130%
Uranium	6305991		0.64	0.59	NA	< 0.50	102%	70%	130%	86%	80%	120%	97%	70%	130%
Vanadium	6305991		30.6	31.6	3.2%	< 2.0	105%	70%	130%	82%	80%	120%	84%	70%	130%
Zinc	6305991		47	49	4.2%	< 5	97%	70%	130%	91%	80%	120%	88%	70%	130%
Chromium, Hexavalent	6311660	6311660	<0.2	<0.2	NA	< 0.2	104%	70%	130%	94%	80%	120%	72%	70%	130%
Mercury	6305991		<0.10	<0.10	NA	< 0.10	105%	70%	130%	98%	80%	120%	101%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:



AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

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http://www.agatlabs.com

Time Markers

AGAT WORK ORDER: 24Z219510

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311660	EX7-NEW57	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	12-NOV-2024	12-NOV-2024	SE
Arsenic	12-NOV-2024	12-NOV-2024	SE
Barium	12-NOV-2024	12-NOV-2024	SE
Beryllium	12-NOV-2024	12-NOV-2024	SE
Boron	12-NOV-2024	12-NOV-2024	SE
Boron (Hot Water Soluble)	12-NOV-2024	12-NOV-2024	AA
Cadmium	12-NOV-2024	12-NOV-2024	SE
Chromium	12-NOV-2024	12-NOV-2024	SE
Cobalt	12-NOV-2024	12-NOV-2024	SE
Copper	12-NOV-2024	12-NOV-2024	SE
Lead	12-NOV-2024	12-NOV-2024	SE
Molybdenum	12-NOV-2024	12-NOV-2024	SE
Nickel	12-NOV-2024	12-NOV-2024	SE
Selenium	12-NOV-2024	12-NOV-2024	SE
Silver	12-NOV-2024	12-NOV-2024	SE
Thallium	12-NOV-2024	12-NOV-2024	SE
Uranium	12-NOV-2024	12-NOV-2024	SE
Vanadium	12-NOV-2024	12-NOV-2024	SE
Zinc	12-NOV-2024	12-NOV-2024	SE
Chromium, Hexavalent	12-NOV-2024	12-NOV-2024	RC
Mercury	12-NOV-2024	12-NOV-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311661	EX7-EW58	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	12-NOV-2024	12-NOV-2024	SE
Arsenic	12-NOV-2024	12-NOV-2024	SE
Barium	12-NOV-2024	12-NOV-2024	SE
Beryllium	12-NOV-2024	12-NOV-2024	SE
Boron	12-NOV-2024	12-NOV-2024	SE
Boron (Hot Water Soluble)	12-NOV-2024	12-NOV-2024	AA
Cadmium	12-NOV-2024	12-NOV-2024	SE
Chromium	12-NOV-2024	12-NOV-2024	SE
Cobalt	12-NOV-2024	12-NOV-2024	SE
Copper	12-NOV-2024	12-NOV-2024	SE
Lead	12-NOV-2024	12-NOV-2024	SE
Molybdenum	12-NOV-2024	12-NOV-2024	SE
Nickel	12-NOV-2024	12-NOV-2024	SE

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 24Z219510

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311661	EX7-EW58	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	12-NOV-2024	12-NOV-2024	SE
Silver	12-NOV-2024	12-NOV-2024	SE
Thallium	12-NOV-2024	12-NOV-2024	SE
Uranium	12-NOV-2024	12-NOV-2024	SE
Vanadium	12-NOV-2024	12-NOV-2024	SE
Zinc	12-NOV-2024	12-NOV-2024	SE
Chromium, Hexavalent	12-NOV-2024	12-NOV-2024	RC
Mercury	12-NOV-2024	12-NOV-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311662	EX7-FS5	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	12-NOV-2024	12-NOV-2024	SE
Arsenic	12-NOV-2024	12-NOV-2024	SE
Barium	12-NOV-2024	12-NOV-2024	SE
Beryllium	12-NOV-2024	12-NOV-2024	SE
Boron	12-NOV-2024	12-NOV-2024	SE
Boron (Hot Water Soluble)	12-NOV-2024	12-NOV-2024	AA
Cadmium	12-NOV-2024	12-NOV-2024	SE
Chromium	12-NOV-2024	12-NOV-2024	SE
Cobalt	12-NOV-2024	12-NOV-2024	SE
Copper	12-NOV-2024	12-NOV-2024	SE
Lead	12-NOV-2024	12-NOV-2024	SE
Molybdenum	12-NOV-2024	12-NOV-2024	SE
Nickel	12-NOV-2024	12-NOV-2024	SE
Selenium	12-NOV-2024	12-NOV-2024	SE
Silver	12-NOV-2024	12-NOV-2024	SE
Thallium	12-NOV-2024	12-NOV-2024	SE
Uranium	12-NOV-2024	12-NOV-2024	SE
Vanadium	12-NOV-2024	12-NOV-2024	SE
Zinc	12-NOV-2024	12-NOV-2024	SE
Chromium, Hexavalent	12-NOV-2024	12-NOV-2024	RC
Mercury	12-NOV-2024	12-NOV-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311663	EX1-EWUS23	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

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AGAT WORK ORDER: 24Z219510

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311663	EX1-EWUS23	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	12-NOV-2024	12-NOV-2024	SE
Arsenic	12-NOV-2024	12-NOV-2024	SE
Barium	12-NOV-2024	12-NOV-2024	SE
Beryllium	12-NOV-2024	12-NOV-2024	SE
Boron	12-NOV-2024	12-NOV-2024	SE
Boron (Hot Water Soluble)	12-NOV-2024	12-NOV-2024	AA
Cadmium	12-NOV-2024	12-NOV-2024	SE
Chromium	12-NOV-2024	12-NOV-2024	SE
Cobalt	12-NOV-2024	12-NOV-2024	SE
Copper	12-NOV-2024	12-NOV-2024	SE
Lead	12-NOV-2024	12-NOV-2024	SE
Molybdenum	12-NOV-2024	12-NOV-2024	SE
Nickel	12-NOV-2024	12-NOV-2024	SE
Selenium	12-NOV-2024	12-NOV-2024	SE
Silver	12-NOV-2024	12-NOV-2024	SE
Thallium	12-NOV-2024	12-NOV-2024	SE
Uranium	12-NOV-2024	12-NOV-2024	SE
Vanadium	12-NOV-2024	12-NOV-2024	SE
Zinc	12-NOV-2024	12-NOV-2024	SE
Chromium, Hexavalent	12-NOV-2024	12-NOV-2024	RC
Mercury	12-NOV-2024	12-NOV-2024	SE

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6313202	EX1-EWLS24	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	12-NOV-2024	12-NOV-2024	SE
Arsenic	12-NOV-2024	12-NOV-2024	SE
Barium	12-NOV-2024	12-NOV-2024	SE
Beryllium	12-NOV-2024	12-NOV-2024	SE
Boron	12-NOV-2024	12-NOV-2024	SE
Boron (Hot Water Soluble)	12-NOV-2024	12-NOV-2024	AA
Cadmium	12-NOV-2024	12-NOV-2024	SE
Chromium	12-NOV-2024	12-NOV-2024	SE
Cobalt	12-NOV-2024	12-NOV-2024	SE
Copper	12-NOV-2024	12-NOV-2024	SE
Lead	12-NOV-2024	12-NOV-2024	SE
Molybdenum	12-NOV-2024	12-NOV-2024	SE
Nickel	12-NOV-2024	12-NOV-2024	SE

Results relate only to the items tested. Results apply to samples as received.

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http://www.agatlabs.com

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AGAT WORK ORDER: 24Z219510

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6313202	EX1-EWLS24	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Selenium	12-NOV-2024	12-NOV-2024	SE
Silver	12-NOV-2024	12-NOV-2024	SE
Thallium	12-NOV-2024	12-NOV-2024	SE
Uranium	12-NOV-2024	12-NOV-2024	SE
Vanadium	12-NOV-2024	12-NOV-2024	SE
Zinc	12-NOV-2024	12-NOV-2024	SE
Chromium, Hexavalent	12-NOV-2024	12-NOV-2024	RC
Mercury	12-NOV-2024	12-NOV-2024	SE

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219510

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

Have feedback? Scan here for a quick survey!

RUSH!

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: jmclann@pinchin.com
2. Email: amcdonald@pinchin.com

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com ☑ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☑ Fine

☐ Regulation 406
Table ____ (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on Certificate of Analysis ☑ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24721951D
Cooler Quantity: one - no ice packs
Arrival Temperatures: 3.6 | 3.1 | 3.3
Depot Temperatures: 11.3 | 11.5 | 11.6
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: 5/1

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☑ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach	O. Reg 406: mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	TCLP:	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX7-NEW57	8/11/24	A AM/PM	1	S				✓													
2. EX7-EW58	"	A AM/PM	1	S				✓													
3. EX7-FS5	"	A AM/PM	1	S				✓													
4. EX1-EW4S23	"	P AM/PM	1	S				✓													
5.		AM/PM																			
6.		AM/PM																			
7.		AM/PM																			
8.		AM/PM																			
9.		AM/PM																			
10.		AM/PM																			
11.		AM/PM																			

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J McLann J McLann	8/11/24	4:20	C. Guilfoyle	11/08/24	16h26
C. to Pinch	11/11/24	8h00	FB	12Nov	8:45

Page ____ of ____

N°: T - 157303

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Document ID: DW-78-1511-0213

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AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z219529
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer
DATE REPORTED: Nov 12, 2024
PAGES (INCLUDING COVER): 9
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 24Z219529

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-11 **DATE REPORTED: 2024-11-12**

		SAMPLE DESCRIPTION:		EX1-SWU519	EX1-SWLS20	EX1-SEWU521	EX1-SEWLS22	EX1-FS89	EX1-EWLS23
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-08	2024-11-08	2024-11-08	2024-11-08	2024-11-08	2024-11-08
Parameter	**Unit**	**G / S**	**RDL**	**6311665**	**6311666**	**6311667**	**6311668**	**6312494**	**6313266**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.15
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50	<50	59
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	13.3	15.8	13.2	14.8	15.2	11.5
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	60-140		95	80	108	103	86	77
Terphenyl	%	60-140		82	92	76	98	86	98

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z219529

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-11 **DATE REPORTED: 2024-11-12**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6311665-6313266 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z219529
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis

RPT Date: Nov 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6306114		<0.02	<0.02	NA	< 0.02	72%	60%	140%	115%	60%	140%	62%	60%	140%
Toluene	6306114		<0.05	<0.05	NA	< 0.05	95%	60%	140%	137%	60%	140%	73%	60%	140%
Ethylbenzene	6306114		<0.05	<0.05	NA	< 0.05	83%	60%	140%	95%	60%	140%	69%	60%	140%
m & p-Xylene	6306114		<0.05	<0.05	NA	< 0.05	86%	60%	140%	119%	60%	140%	92%	60%	140%
o-Xylene	6306114		<0.05	<0.05	NA	< 0.05	84%	60%	140%	118%	60%	140%	105%	60%	140%
F1 (C6 to C10)	6306114		<5	<5	NA	< 5	85%	60%	140%	85%	60%	140%	97%	60%	140%
F2 (C10 to C16)	6291607		< 10	< 10	NA	< 10	112%	60%	140%	96%	60%	140%	99%	60%	140%
F3 (C16 to C34)	6291607		58	53	NA	< 50	111%	60%	140%	116%	60%	140%	119%	60%	140%
F4 (C34 to C50)	6291607		< 50	< 50	NA	< 50	87%	60%	140%	84%	60%	140%	96%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: Jinkal Patel

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Time Markers

AGAT WORK ORDER: 24Z219529

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311665	EX1-SWU519	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	12-NOV-2024	12-NOV-2024	SS
F3 (C16 to C34)	12-NOV-2024	12-NOV-2024	SS
F4 (C34 to C50)	12-NOV-2024	12-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	12-NOV-2024	12-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311666	EX1-SWLS20	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	12-NOV-2024	12-NOV-2024	SS
F3 (C16 to C34)	12-NOV-2024	12-NOV-2024	SS
F4 (C34 to C50)	12-NOV-2024	12-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	12-NOV-2024	12-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311667	EX1-SEWU521	Soil	08-NOV-2024	11-NOV-2024

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AGAT WORK ORDER: 24Z219529

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311667	EX1-SEWU521	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	12-NOV-2024	12-NOV-2024	SS
F3 (C16 to C34)	12-NOV-2024	12-NOV-2024	SS
F4 (C34 to C50)	12-NOV-2024	12-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	12-NOV-2024	12-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6311668	EX1-SEWLS22	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	12-NOV-2024	12-NOV-2024	SS
F3 (C16 to C34)	12-NOV-2024	12-NOV-2024	SS
F4 (C34 to C50)	12-NOV-2024	12-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	12-NOV-2024	12-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312494	EX1-FS89	Soil	08-NOV-2024	11-NOV-2024

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Time Markers

AGAT WORK ORDER: 24Z219529

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312494	EX1-FS89	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	12-NOV-2024	12-NOV-2024	SS
F3 (C16 to C34)	12-NOV-2024	12-NOV-2024	SS
F4 (C34 to C50)	12-NOV-2024	12-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	12-NOV-2024	12-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6313266	EX1-EWLS23	Soil	08-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	12-NOV-2024	12-NOV-2024	SS
F3 (C16 to C34)	12-NOV-2024	12-NOV-2024	SS
F4 (C34 to C50)	12-NOV-2024	12-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	12-NOV-2024	12-NOV-2024	SS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219529

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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Have feedback? Scan here for a quick survey!

RUSH!

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 24Z219529

Cooler Quantity: one - no ice packs

Arrival Temperatures: 3.6 | 3.1 | 3.3

Depot Temperatures: 11.3 | 11.5 | 11.6

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: F/I

Report Information:

Company: Pinchin

Contact: Alicia McDonald

Address:

Phone: Fax:

Reports to be sent to:

1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☒ Res/Park ☐ Agriculture

Soil Texture (Check One): ☐ Coarse ☒ Fine

☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other — Indicate One

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: 2267991.012

Site Location:

Sampled By:

AGAT Quote #: PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a **Record of Site Condition (RSC)**? ☒ Yes ☐ No

Report Guideline on Certificate of Analysis ☒ Yes ☐ No

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company: ~~2267991.012~~

Contact:

Address:

Email:

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐CrVI, ☐Hg, ☐HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs TCLP:	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX1-SWLS19	8/11/24	P	2	S				X										
2. EX1-SWLS20	"	P	2	S				X										
3. EX1-SEWLS21	"	P	2	S				X										
4. EX1-SEWLS22	"	P	2	S				X										
5. EX1-EWLS24	8/11/24	P	2	S				X										
6.																		
7.																		
8.																		
9.																		
10.																		
11.																		

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J.McCann/JMcCann	8/11/24	420	C. Griffiths	11/08/24	16h20
C. to Pinchin	11/11/24	1500	FB	12/NOV	845

Page ____ of ____

N°: T - 157304

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Document ID: DM-78-1511.023

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Date Issued: Jan 19, 2024

AGAT Laboratories

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z219724
SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer
DATE REPORTED: Nov 13, 2024
PAGES (INCLUDING COVER): 46
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
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- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Western Enviro-Agricultural Laboratory Association (WEALA)
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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

		SAMPLE DESCRIPTION:		EX1-EWUS25	EX1-EWUS27	EX2-WWUS15
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-11
Parameter	Unit	G / S	RDL	6312729	6312784	6312798
Antimony	µg/g	7.5	0.8	<0.8	<0.8	1.0
Arsenic	µg/g	18	1	2	1	6
Barium	µg/g	390	2.0	129	69.8	151
Beryllium	µg/g	5	0.5	0.6	<0.5	<0.5
Boron	µg/g	120	5	6	5	7
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.34	0.44	0.67
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	1.0
Chromium	µg/g	160	5	41	40	34
Cobalt	µg/g	22	0.8	9.5	7.3	8.3
Copper	µg/g	180	1.0	14.3	13.4	137
Lead	µg/g	120	1	4	4	**175**
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	1.1
Nickel	µg/g	130	1	20	20	23
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.64	0.63	0.51
Vanadium	µg/g	86	2.0	51.0	39.0	39.5
Zinc	µg/g	340	5	56	44	219
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	0.11

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

		SAMPLE DESCRIPTION:		EX1-EWUS25	EX1-EWLS26	EX1-EWUS27	EX1-EWLS28	EX2-WWUS15
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-11	2024-11-11	2024-11-11
Parameter	**Unit**	**G / S**	**RDL**	**6312729**	**6312781**	**6312784**	**6312786**	**6312798**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05	0.13	<0.05	<0.05	0.07
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	0.18	<0.05	<0.05	0.14
Pyrene	µg/g	78	0.05	<0.05	0.14	<0.05	<0.05	0.12
Benzo(a)anthracene	µg/g	0.63	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05	0.09	<0.05	<0.05	0.07
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	0.07	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	20.48	24.03	15.38	24.6	21.6
Surrogate	**Unit**	**Acceptable Limits**						
Naphthalene-d8	%	50-140		85	75	75	70	70
Acridine-d9	%	50-140		75	70	80	70	80
Terphenyl-d14	%	50-140		110	80	85	85	75

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6312729-6312798 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

		SAMPLE DESCRIPTION:		EX1-FS10	EX1-FS11	EX1-FS12	DUP29
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-11	2024-11-11
Parameter	**Unit**	**G / S**	**RDL**	**6312708**	**6312711**	**6312790**	**6312791**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA
Moisture Content	%		0.1	19.1	27.2	20.2	18.6
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	60-140		74	65	66	73
Terphenyl	%	60-140		73	82	70	73

Certified By:

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AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-11 **DATE REPORTED: 2024-11-13**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6312708-6312791 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

		SAMPLE DESCRIPTION:		EX1-EWLS26	EX1-EWLS28
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11
Parameter	**Unit**	**G / S**	**RDL**	**6312781**	**6312786**
F1 (C6 to C10)	µg/g	65	5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA
Moisture Content	%		0.1	24.03	24.6
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8	%	50-140		106	112
Terphenyl	%	60-140		69	84

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6312781-6312786 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

				SAMPLE DESCRIPTION:	EX2-WWLS16	EX2-SFS15	EX2-WFS16	EX2-FS17	EX2-FS18	DUP30
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2024-11-11	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00
Parameter	**Unit**	**G / S**	**RDL**		**6312802**	**6312803**	**6312805**	**6312806**	**6312807**	**6312808**
F1 (C6 to C10)	µg/g	65	5		<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5		<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10		<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50		<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50		<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50		NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1		14.8	19.0	21.5	24.3	21.5	19.7
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8	%	50-140			94	98	117	96	103	98
Terphenyl	%	60-140			89	89	99	98	93	79

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6312802-6312808 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

		SAMPLE DESCRIPTION:		EX1-EWUS25	EX1-EWUS27
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11
Parameter	Unit	G / S	RDL	6312729	6312784
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05

Certified By: Pinkal Patel

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

		SAMPLE DESCRIPTION:		EX1-EWUS25	EX1-EWUS27
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11
Parameter	**Unit**	**G / S**	**RDL**	**6312729**	**6312784**
Bromoform	ug/g	0.26	0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.04	<0.04	<0.04
n-Hexane	µg/g	34	0.05	<0.05	<0.05
Moisture Content	%		0.1	20.48	15.38
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8	% Recovery	50-140		95	98
4-Bromofluorobenzene	% Recovery	50-140		76	70

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6312729-6312784 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

SAMPLE DESCRIPTION:				EX1-EWLS26	EX1-EWLS28	EX2-WWLS16	EX2-SFS15	EX2-WFS16	EX2-FS17	EX2-FS18	DUP30
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-11-11	2024-11-11	2024-11-11	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00
Parameter	Unit	G / S	RDL	6312781	6312786	6312802	6312803	6312805	6312806	6312807	6312808
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By:

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-11

DATE REPORTED: 2024-11-13

		SAMPLE DESCRIPTION:		EX1-EWLS26	EX1-EWLS28	EX2-WWLS16	EX2-SFS15	EX2-WFS16	EX2-FS17	EX2-FS18	DUP30
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-11	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00	2024-11-11 12:00
Parameter	**Unit**	**G / S**	**RDL**	**6312781**	**6312786**	**6312802**	**6312803**	**6312805**	**6312806**	**6312807**	**6312808**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	24.03	24.6	14.8	19.0	21.5	24.3	21.5	19.7
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		106	112	94	98	117	96	103	98
4-Bromofluorobenzene	% Recovery	50-140		77	80	74	82	83	74	78	75

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6312781-6312808 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Exceedance Summary

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6312798	EX2-WWUS15	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Lead	µg/g	120	175

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Nov 13, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6312729	6312729	<0.8	<0.8	NA	< 0.8	101%	70%	130%	87%	80%	120%	86%	70%	130%
Arsenic	6312729	6312729	2	2	NA	< 1	113%	70%	130%	98%	80%	120%	97%	70%	130%
Barium	6312729	6312729	129	124	4.0%	< 2.0	100%	70%	130%	99%	80%	120%	104%	70%	130%
Beryllium	6312729	6312729	0.6	0.6	NA	< 0.5	119%	70%	130%	117%	80%	120%	130%	70%	130%
Boron	6312729	6312729	6	5	NA	< 5	94%	70%	130%	99%	80%	120%	102%	70%	130%
Boron (Hot Water Soluble)	6312729	6312729	0.34	0.35	NA	< 0.10	94%	60%	140%	98%	70%	130%	99%	60%	140%
Cadmium	6312729	6312729	<0.5	<0.5	NA	< 0.5	122%	70%	130%	106%	80%	120%	112%	70%	130%
Chromium	6312729	6312729	41	40	2.5%	< 5	100%	70%	130%	99%	80%	120%	95%	70%	130%
Cobalt	6312729	6312729	9.5	9.1	4.3%	< 0.8	98%	70%	130%	100%	80%	120%	99%	70%	130%
Copper	6312729	6312729	14.3	14.0	2.1%	< 1.0	95%	70%	130%	100%	80%	120%	97%	70%	130%
Lead	6312729	6312729	4	4	NA	< 1	107%	70%	130%	92%	80%	120%	89%	70%	130%
Molybdenum	6312729	6312729	<0.5	<0.5	NA	< 0.5	115%	70%	130%	99%	80%	120%	104%	70%	130%
Nickel	6312729	6312729	20	20	0.0%	< 1	102%	70%	130%	101%	80%	120%	99%	70%	130%
Selenium	6312729	6312729	<0.8	<0.8	NA	< 0.8	125%	70%	130%	98%	80%	120%	108%	70%	130%
Silver	6312729	6312729	<0.5	<0.5	NA	< 0.5	116%	70%	130%	101%	80%	120%	99%	70%	130%
Thallium	6312729	6312729	<0.5	<0.5	NA	< 0.5	84%	70%	130%	102%	80%	120%	102%	70%	130%
Uranium	6312729	6312729	0.64	0.63	NA	< 0.50	87%	70%	130%	99%	80%	120%	99%	70%	130%
Vanadium	6312729	6312729	51.0	48.9	4.2%	< 2.0	108%	70%	130%	101%	80%	120%	98%	70%	130%
Zinc	6312729	6312729	56	53	5.5%	< 5	104%	70%	130%	107%	80%	120%	109%	70%	130%
Chromium, Hexavalent	6311660		<0.2	<0.2	NA	< 0.2	104%	70%	130%	94%	80%	120%	72%	70%	130%
Mercury	6312729	6312729	<0.10	<0.10	NA	< 0.10	119%	70%	130%	95%	80%	120%	105%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:



AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z219724
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis

RPT Date: Nov 13, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6311516		<0.02	<0.02	NA	< 0.02	83%	60%	140%	78%	60%	140%	76%	60%	140%
Toluene	6311516		<0.05	<0.05	NA	< 0.05	82%	60%	140%	77%	60%	140%	91%	60%	140%
Ethylbenzene	6311516		<0.05	<0.05	NA	< 0.05	82%	60%	140%	78%	60%	140%	83%	60%	140%
m & p-Xylene	6311516		<0.05	<0.05	NA	< 0.05	86%	60%	140%	95%	60%	140%	90%	60%	140%
o-Xylene	6311516		<0.05	<0.05	NA	< 0.05	89%	60%	140%	83%	60%	140%	82%	60%	140%
F1 (C6 to C10)	6311516		<5	<5	NA	< 5	116%	60%	140%	117%	60%	140%	100%	60%	140%
F2 (C10 to C16)	6312708	6312708	< 10	< 10	NA	< 10	117%	60%	140%	113%	60%	140%	128%	60%	140%
F3 (C16 to C34)	6312708	6312708	< 50	< 50	NA	< 50	123%	60%	140%	123%	60%	140%	128%	60%	140%
F4 (C34 to C50)	6312708	6312708	< 50	< 50	NA	< 50	112%	60%	140%	104%	60%	140%	101%	60%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	6309539		<0.05	<0.05	NA	< 0.05	77%	50%	140%	107%	50%	140%	125%	50%	140%
Vinyl Chloride	6309539		<0.02	<0.02	NA	< 0.02	88%	50%	140%	101%	50%	140%	121%	50%	140%
Bromomethane	6309539		<0.05	<0.05	NA	< 0.05	97%	50%	140%	110%	50%	140%	116%	50%	140%
Trichlorofluoromethane	6309539		<0.05	<0.05	NA	< 0.05	116%	50%	140%	114%	50%	140%	112%	50%	140%
Acetone	6309539		<0.50	<0.50	NA	< 0.50	110%	50%	140%	98%	50%	140%	112%	50%	140%
1,1-Dichloroethylene	6309539		<0.05	<0.05	NA	< 0.05	73%	50%	140%	69%	60%	130%	77%	50%	140%
Methylene Chloride	6309539		<0.05	<0.05	NA	< 0.05	69%	50%	140%	81%	60%	130%	79%	50%	140%
Trans- 1,2-Dichloroethylene	6309539		<0.05	<0.05	NA	< 0.05	67%	50%	140%	70%	60%	130%	96%	50%	140%
Methyl tert-butyl Ether	6309539		<0.05	<0.05	NA	< 0.05	82%	50%	140%	82%	60%	130%	96%	50%	140%
1,1-Dichloroethane	6309539		<0.02	<0.02	NA	< 0.02	95%	50%	140%	103%	60%	130%	83%	50%	140%
Methyl Ethyl Ketone	6309539		<0.50	<0.50	NA	< 0.50	103%	50%	140%	108%	50%	140%	102%	50%	140%
Cis- 1,2-Dichloroethylene	6309539		<0.02	<0.02	NA	< 0.02	94%	50%	140%	92%	60%	130%	90%	50%	140%
Chloroform	6309539		<0.04	<0.04	NA	< 0.04	101%	50%	140%	94%	60%	130%	108%	50%	140%
1,2-Dichloroethane	6309539		<0.03	<0.03	NA	< 0.03	90%	50%	140%	101%	60%	130%	104%	50%	140%
1,1,1-Trichloroethane	6309539		<0.05	<0.05	NA	< 0.05	91%	50%	140%	93%	60%	130%	99%	50%	140%
Carbon Tetrachloride	6309539		<0.05	<0.05	NA	< 0.05	88%	50%	140%	89%	60%	130%	92%	50%	140%
Benzene	6309539		<0.02	<0.02	NA	< 0.02	90%	50%	140%	98%	60%	130%	95%	50%	140%
1,2-Dichloropropane	6309539		<0.03	<0.03	NA	< 0.03	101%	50%	140%	100%	60%	130%	93%	50%	140%
Trichloroethylene	6309539		<0.03	<0.03	NA	< 0.03	109%	50%	140%	104%	60%	130%	97%	50%	140%
Bromodichloromethane	6309539		<0.05	<0.05	NA	< 0.05	107%	50%	140%	102%	60%	130%	103%	50%	140%
Methyl Isobutyl Ketone	6309539		<0.50	<0.50	NA	< 0.50	99%	50%	140%	89%	50%	140%	83%	50%	140%
1,1,2-Trichloroethane	6309539		<0.04	<0.04	NA	< 0.04	105%	50%	140%	104%	60%	130%	90%	50%	140%
Toluene	6309539		<0.05	<0.05	NA	< 0.05	103%	50%	140%	101%	60%	130%	103%	50%	140%
Dibromochloromethane	6309539		<0.05	<0.05	NA	< 0.05	100%	50%	140%	94%	60%	130%	100%	50%	140%
Ethylene Dibromide	6309539		<0.04	<0.04	NA	< 0.04	96%	50%	140%	100%	60%	130%	107%	50%	140%
Tetrachloroethylene	6309539		<0.05	<0.05	NA	< 0.05	97%	50%	140%	97%	60%	130%	80%	50%	140%
1,1,1,2-Tetrachloroethane	6309539		<0.04	<0.04	NA	< 0.04	99%	50%	140%	107%	60%	130%	106%	50%	140%
Chlorobenzene	6309539		<0.05	<0.05	NA	< 0.05	111%	50%	140%	105%	60%	130%	108%	50%	140%
Ethylbenzene	6309539		<0.05	<0.05	NA	< 0.05	74%	50%	140%	79%	60%	130%	86%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z219724
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Nov 13, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
m & p-Xylene	6309539		<0.05	<0.05	NA	< 0.05	89%	50%	140%	94%	60%	130%	108%	50%	140%
Bromoform	6309539		<0.05	<0.05	NA	< 0.05	98%	50%	140%	97%	60%	130%	99%	50%	140%
Styrene	6309539		<0.05	<0.05	NA	< 0.05	72%	50%	140%	65%	60%	130%	79%	50%	140%
1,1,2,2-Tetrachloroethane	6309539		<0.05	<0.05	NA	< 0.05	79%	50%	140%	104%	60%	130%	97%	50%	140%
o-Xylene	6309539		<0.05	<0.05	NA	< 0.05	93%	50%	140%	88%	60%	130%	103%	50%	140%
1,3-Dichlorobenzene	6309539		<0.05	<0.05	NA	< 0.05	105%	50%	140%	106%	60%	130%	105%	50%	140%
1,4-Dichlorobenzene	6309539		<0.05	<0.05	NA	< 0.05	105%	50%	140%	104%	60%	130%	103%	50%	140%
1,2-Dichlorobenzene	6309539		<0.05	<0.05	NA	< 0.05	102%	50%	140%	96%	60%	130%	99%	50%	140%
n-Hexane	6309539		<0.05	<0.05	NA	< 0.05	82%	50%	140%	78%	60%	130%	74%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6309539		<5	<5	NA	< 5	91%	60%	140%	90%	60%	140%	93%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6309539		<0.05	<0.05	NA	< 0.05	77%	50%	140%	107%	50%	140%	125%	50%	140%
Vinyl Chloride	6309539		<0.02	<0.02	NA	< 0.02	88%	50%	140%	101%	50%	140%	121%	50%	140%
Bromomethane	6309539		<0.05	<0.05	NA	< 0.05	97%	50%	140%	110%	50%	140%	116%	50%	140%
Trichlorofluoromethane	6309539		<0.05	<0.05	NA	< 0.05	116%	50%	140%	114%	50%	140%	112%	50%	140%
Acetone	6309539		<0.50	<0.50	NA	< 0.50	110%	50%	140%	98%	50%	140%	112%	50%	140%
1,1-Dichloroethylene	6309539		<0.05	<0.05	NA	< 0.05	73%	50%	140%	69%	60%	130%	77%	50%	140%
Methylene Chloride	6309539		<0.05	<0.05	NA	< 0.05	69%	50%	140%	81%	60%	130%	79%	50%	140%
Trans- 1,2-Dichloroethylene	6309539		<0.05	<0.05	NA	< 0.05	67%	50%	140%	70%	60%	130%	96%	50%	140%
Methyl tert-butyl Ether	6309539		<0.05	<0.05	NA	< 0.05	82%	50%	140%	82%	60%	130%	96%	50%	140%
1,1-Dichloroethane	6309539		<0.02	<0.02	NA	< 0.02	95%	50%	140%	103%	60%	130%	83%	50%	140%
Methyl Ethyl Ketone	6309539		<0.50	<0.50	NA	< 0.50	103%	50%	140%	108%	50%	140%	102%	50%	140%
Cis- 1,2-Dichloroethylene	6309539		<0.02	<0.02	NA	< 0.02	94%	50%	140%	92%	60%	130%	90%	50%	140%
Chloroform	6309539		<0.04	<0.04	NA	< 0.04	101%	50%	140%	94%	60%	130%	108%	50%	140%
1,2-Dichloroethane	6309539		<0.03	<0.03	NA	< 0.03	90%	50%	140%	101%	60%	130%	104%	50%	140%
1,1,1-Trichloroethane	6309539		<0.05	<0.05	NA	< 0.05	91%	50%	140%	93%	60%	130%	99%	50%	140%
Carbon Tetrachloride	6309539		<0.05	<0.05	NA	< 0.05	88%	50%	140%	89%	60%	130%	92%	50%	140%
Benzene	6309539		<0.02	<0.02	NA	< 0.02	90%	50%	140%	98%	60%	130%	95%	50%	140%
1,2-Dichloropropane	6309539		<0.03	<0.03	NA	< 0.03	101%	50%	140%	100%	60%	130%	93%	50%	140%
Trichloroethylene	6309539		<0.03	<0.03	NA	< 0.03	109%	50%	140%	104%	60%	130%	97%	50%	140%
Bromodichloromethane	6309539		<0.05	<0.05	NA	< 0.05	107%	50%	140%	102%	60%	130%	103%	50%	140%
Methyl Isobutyl Ketone	6309539		<0.50	<0.50	NA	< 0.50	99%	50%	140%	89%	50%	140%	83%	50%	140%
1,1,2-Trichloroethane	6309539		<0.04	<0.04	NA	< 0.04	105%	50%	140%	104%	60%	130%	90%	50%	140%
Toluene	6309539		<0.05	<0.05	NA	< 0.05	103%	50%	140%	101%	60%	130%	103%	50%	140%
Dibromochloromethane	6309539		<0.05	<0.05	NA	< 0.05	100%	50%	140%	94%	60%	130%	100%	50%	140%
Ethylene Dibromide	6309539		<0.04	<0.04	NA	< 0.04	96%	50%	140%	100%	60%	130%	107%	50%	140%
Tetrachloroethylene	6309539		<0.05	<0.05	NA	< 0.05	97%	50%	140%	97%	60%	130%	80%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Nov 13, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,1,1,2-Tetrachloroethane	6309539		<0.04	<0.04	NA	< 0.04	99%	50%	140%	107%	60%	130%	106%	50%	140%
Chlorobenzene	6309539		<0.05	<0.05	NA	< 0.05	111%	50%	140%	105%	60%	130%	108%	50%	140%
Ethylbenzene	6309539		<0.05	<0.05	NA	< 0.05	74%	50%	140%	79%	60%	130%	86%	50%	140%
m & p-Xylene	6309539		<0.05	<0.05	NA	< 0.05	89%	50%	140%	94%	60%	130%	108%	50%	140%
Bromoform	6309539		<0.05	<0.05	NA	< 0.05	98%	50%	140%	97%	60%	130%	99%	50%	140%
Styrene	6309539		<0.05	<0.05	NA	< 0.05	72%	50%	140%	65%	60%	130%	79%	50%	140%
1,1,2,2-Tetrachloroethane	6309539		<0.05	<0.05	NA	< 0.05	79%	50%	140%	104%	60%	130%	97%	50%	140%
o-Xylene	6309539		<0.05	<0.05	NA	< 0.05	93%	50%	140%	88%	60%	130%	103%	50%	140%
1,3-Dichlorobenzene	6309539		<0.05	<0.05	NA	< 0.05	105%	50%	140%	106%	60%	130%	105%	50%	140%
1,4-Dichlorobenzene	6309539		<0.05	<0.05	NA	< 0.05	105%	50%	140%	104%	60%	130%	103%	50%	140%
1,2-Dichlorobenzene	6309539		<0.05	<0.05	NA	< 0.05	102%	50%	140%	96%	60%	130%	99%	50%	140%
n-Hexane	6309539		<0.05	<0.05	NA	< 0.05	82%	50%	140%	78%	60%	130%	74%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F1 (C6 to C10)	6309539		<5	<5	NA	< 5	91%	60%	140%	90%	60%	140%	93%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By:



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Time Markers

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312708	EX1-FS10	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312711	EX1-FS11	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312729	EX1-EWUS25	Soil	11-NOV-2024	11-NOV-2024

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312729	EX1-EWUS25	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	13-NOV-2024	13-NOV-2024	DW
Arsenic	13-NOV-2024	13-NOV-2024	DW
Barium	13-NOV-2024	13-NOV-2024	DW
Beryllium	13-NOV-2024	13-NOV-2024	DW
Boron	13-NOV-2024	13-NOV-2024	DW
Boron (Hot Water Soluble)	08-NOV-2024	13-NOV-2024	ZK
Cadmium	13-NOV-2024	13-NOV-2024	DW
Chromium	13-NOV-2024	13-NOV-2024	DW
Cobalt	13-NOV-2024	13-NOV-2024	DW
Copper	13-NOV-2024	13-NOV-2024	DW
Lead	13-NOV-2024	13-NOV-2024	DW
Molybdenum	13-NOV-2024	13-NOV-2024	DW
Nickel	13-NOV-2024	13-NOV-2024	DW
Selenium	13-NOV-2024	13-NOV-2024	DW
Silver	13-NOV-2024	13-NOV-2024	DW
Thallium	13-NOV-2024	13-NOV-2024	DW
Uranium	13-NOV-2024	13-NOV-2024	DW
Vanadium	13-NOV-2024	13-NOV-2024	DW
Zinc	13-NOV-2024	13-NOV-2024	DW
Chromium, Hexavalent	12-NOV-2024	12-NOV-2024	RC
Mercury	13-NOV-2024	13-NOV-2024	DW

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	13-NOV-2024	13-NOV-2024	NP
Acenaphthylene	13-NOV-2024	13-NOV-2024	NP
Acenaphthene	13-NOV-2024	13-NOV-2024	NP
Fluorene	13-NOV-2024	13-NOV-2024	NP
Phenanthrene	13-NOV-2024	13-NOV-2024	NP
Anthracene	13-NOV-2024	13-NOV-2024	NP
Fluoranthene	13-NOV-2024	13-NOV-2024	NP
Pyrene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)anthracene	13-NOV-2024	13-NOV-2024	NP
Chrysene	13-NOV-2024	13-NOV-2024	NP
Benzo(b)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(k)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)pyrene	13-NOV-2024	13-NOV-2024	NP
Indeno(1,2,3-cd)pyrene	13-NOV-2024	13-NOV-2024	NP
Dibenz(a,h)anthracene	13-NOV-2024	13-NOV-2024	NP

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Time Markers

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312729	EX1-EWUS25	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(g,h,i)perylene	13-NOV-2024	13-NOV-2024	NP
2-and 1-methyl Naphthalene	13-NOV-2024	13-NOV-2024	SYS
Naphthalene-d8	13-NOV-2024	13-NOV-2024	NP
Acridine-d9	13-NOV-2024	13-NOV-2024	NP
Terphenyl-d14	13-NOV-2024	13-NOV-2024	NP
Moisture Content			

O. Reg. 153(511) - VOCs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312729	EX1-EWUS25	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content			

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312781	EX1-EWLS26	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	13-NOV-2024	13-NOV-2024	NP
Acenaphthylene	13-NOV-2024	13-NOV-2024	NP
Acenaphthene	13-NOV-2024	13-NOV-2024	NP
Fluorene	13-NOV-2024	13-NOV-2024	NP
Phenanthrene	13-NOV-2024	13-NOV-2024	NP
Anthracene	13-NOV-2024	13-NOV-2024	NP
Fluoranthene	13-NOV-2024	13-NOV-2024	NP
Pyrene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)anthracene	13-NOV-2024	13-NOV-2024	NP
Chrysene	13-NOV-2024	13-NOV-2024	NP
Benzo(b)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(k)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)pyrene	13-NOV-2024	13-NOV-2024	NP
Indeno(1,2,3-cd)pyrene	13-NOV-2024	13-NOV-2024	NP
Dibenz(a,h)anthracene	13-NOV-2024	13-NOV-2024	NP
Benzo(g,h,i)perylene	13-NOV-2024	13-NOV-2024	NP
2-and 1-methyl Naphthalene	13-NOV-2024	13-NOV-2024	SYS
Naphthalene-d8	13-NOV-2024	13-NOV-2024	NP
Acridine-d9	13-NOV-2024	13-NOV-2024	NP
Terphenyl-d14	13-NOV-2024	13-NOV-2024	NP
Moisture Content			

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Time Markers

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312781	EX1-EWLS26	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CK
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F2 (C10 to C16) minus Naphthalene	13-NOV-2024	13-NOV-2024	SYS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34) minus PAHs	13-NOV-2024	13-NOV-2024	SYS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	13-NOV-2024	13-NOV-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312781	EX1-EWLS26	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content			

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312784	EX1-EWUS27	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	13-NOV-2024	13-NOV-2024	DW
Arsenic	13-NOV-2024	13-NOV-2024	DW
Barium	13-NOV-2024	13-NOV-2024	DW
Beryllium	13-NOV-2024	13-NOV-2024	DW
Boron	13-NOV-2024	13-NOV-2024	DW
Boron (Hot Water Soluble)	13-NOV-2024	13-NOV-2024	ZK
Cadmium	13-NOV-2024	13-NOV-2024	DW
Chromium	13-NOV-2024	13-NOV-2024	DW
Cobalt	13-NOV-2024	13-NOV-2024	DW
Copper	13-NOV-2024	13-NOV-2024	DW
Lead	13-NOV-2024	13-NOV-2024	DW
Molybdenum	13-NOV-2024	13-NOV-2024	DW
Nickel	13-NOV-2024	13-NOV-2024	DW
Selenium	13-NOV-2024	13-NOV-2024	DW
Silver	13-NOV-2024	13-NOV-2024	DW
Thallium	13-NOV-2024	13-NOV-2024	DW

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Time Markers

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312784	EX1-EWUS27	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Uranium	13-NOV-2024	13-NOV-2024	DW
Vanadium	13-NOV-2024	13-NOV-2024	DW
Zinc	13-NOV-2024	13-NOV-2024	DW
Chromium, Hexavalent	12-NOV-2024	12-NOV-2024	RC
Mercury	13-NOV-2024	13-NOV-2024	DW

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	13-NOV-2024	13-NOV-2024	NP
Acenaphthylene	13-NOV-2024	13-NOV-2024	NP
Acenaphthene	13-NOV-2024	13-NOV-2024	NP
Fluorene	13-NOV-2024	13-NOV-2024	NP
Phenanthrene	13-NOV-2024	13-NOV-2024	NP
Anthracene	13-NOV-2024	13-NOV-2024	NP
Fluoranthene	13-NOV-2024	13-NOV-2024	NP
Pyrene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)anthracene	13-NOV-2024	13-NOV-2024	NP
Chrysene	13-NOV-2024	13-NOV-2024	NP
Benzo(b)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(k)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)pyrene	13-NOV-2024	13-NOV-2024	NP
Indeno(1,2,3-cd)pyrene	13-NOV-2024	13-NOV-2024	NP
Dibenz(a,h)anthracene	13-NOV-2024	13-NOV-2024	NP
Benzo(g,h,i)perylene	13-NOV-2024	13-NOV-2024	NP
2-and 1-methyl Naphthalene	13-NOV-2024	13-NOV-2024	SYS
Naphthalene-d8	13-NOV-2024	13-NOV-2024	NP
Acridine-d9	13-NOV-2024	13-NOV-2024	NP
Terphenyl-d14	13-NOV-2024	13-NOV-2024	NP
Moisture Content			

O. Reg. 153(511) - VOCs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312784	EX1-EWUS27	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content			

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312786	EX1-EWLS28	Soil	11-NOV-2024	11-NOV-2024

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312786	EX1-EWLS28	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	13-NOV-2024	13-NOV-2024	NP
Acenaphthylene	13-NOV-2024	13-NOV-2024	NP
Acenaphthene	13-NOV-2024	13-NOV-2024	NP
Fluorene	13-NOV-2024	13-NOV-2024	NP
Phenanthrene	13-NOV-2024	13-NOV-2024	NP
Anthracene	13-NOV-2024	13-NOV-2024	NP
Fluoranthene	13-NOV-2024	13-NOV-2024	NP
Pyrene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)anthracene	13-NOV-2024	13-NOV-2024	NP
Chrysene	13-NOV-2024	13-NOV-2024	NP
Benzo(b)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(k)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)pyrene	13-NOV-2024	13-NOV-2024	NP
Indeno(1,2,3-cd)pyrene	13-NOV-2024	13-NOV-2024	NP
Dibenz(a,h)anthracene	13-NOV-2024	13-NOV-2024	NP
Benzo(g,h,i)perylene	13-NOV-2024	13-NOV-2024	NP
2-and 1-methyl Naphthalene	13-NOV-2024	13-NOV-2024	SYS
Naphthalene-d8	13-NOV-2024	13-NOV-2024	NP
Acridine-d9	13-NOV-2024	13-NOV-2024	NP
Terphenyl-d14	13-NOV-2024	13-NOV-2024	NP
Moisture Content			

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CK
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F2 (C10 to C16) minus Naphthalene	13-NOV-2024	13-NOV-2024	SYS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34) minus PAHs	13-NOV-2024	13-NOV-2024	SYS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content			
Terphenyl	13-NOV-2024	13-NOV-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312786	EX1-EWLS28	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312786	EX1-EWLS28	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content			

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312790	EX1-FS12	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312791	DUP29	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	12-NOV-2024	12-NOV-2024	CB
Toluene	12-NOV-2024	12-NOV-2024	CB
Ethylbenzene	12-NOV-2024	12-NOV-2024	CB
m & p-Xylene	12-NOV-2024	12-NOV-2024	CB
o-Xylene	12-NOV-2024	12-NOV-2024	CB
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CB
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CB
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS

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AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312791	DUP29	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312798	EX2-WWUS15	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	13-NOV-2024	13-NOV-2024	DW
Arsenic	13-NOV-2024	13-NOV-2024	DW
Barium	13-NOV-2024	13-NOV-2024	DW
Beryllium	13-NOV-2024	13-NOV-2024	DW
Boron	13-NOV-2024	13-NOV-2024	DW
Boron (Hot Water Soluble)	13-NOV-2024	13-NOV-2024	ZK
Cadmium	13-NOV-2024	13-NOV-2024	DW
Chromium	13-NOV-2024	13-NOV-2024	DW
Cobalt	13-NOV-2024	13-NOV-2024	DW
Copper	13-NOV-2024	13-NOV-2024	DW
Lead	13-NOV-2024	13-NOV-2024	DW
Molybdenum	13-NOV-2024	13-NOV-2024	DW
Nickel	13-NOV-2024	13-NOV-2024	DW
Selenium	13-NOV-2024	13-NOV-2024	DW
Silver	13-NOV-2024	13-NOV-2024	DW
Thallium	13-NOV-2024	13-NOV-2024	DW
Uranium	13-NOV-2024	13-NOV-2024	DW
Vanadium	13-NOV-2024	13-NOV-2024	DW
Zinc	13-NOV-2024	13-NOV-2024	DW
Chromium, Hexavalent	12-NOV-2024	12-NOV-2024	RC
Mercury	13-NOV-2024	13-NOV-2024	DW

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	13-NOV-2024	13-NOV-2024	NP
Acenaphthylene	13-NOV-2024	13-NOV-2024	NP
Acenaphthene	13-NOV-2024	13-NOV-2024	NP
Fluorene	13-NOV-2024	13-NOV-2024	NP
Phenanthrene	13-NOV-2024	13-NOV-2024	NP

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312798	EX2-WWUS15	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Anthracene	13-NOV-2024	13-NOV-2024	NP
Fluoranthene	13-NOV-2024	13-NOV-2024	NP
Pyrene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)anthracene	13-NOV-2024	13-NOV-2024	NP
Chrysene	13-NOV-2024	13-NOV-2024	NP
Benzo(b)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(k)fluoranthene	13-NOV-2024	13-NOV-2024	NP
Benzo(a)pyrene	13-NOV-2024	13-NOV-2024	NP
Indeno(1,2,3-cd)pyrene	13-NOV-2024	13-NOV-2024	NP
Dibenz(a,h)anthracene	13-NOV-2024	13-NOV-2024	NP
Benzo(g,h,i)perylene	13-NOV-2024	13-NOV-2024	NP
2-and 1-methyl Naphthalene	13-NOV-2024	13-NOV-2024	SYS
Naphthalene-d8	13-NOV-2024	13-NOV-2024	NP
Acridine-d9	13-NOV-2024	13-NOV-2024	NP
Terphenyl-d14	13-NOV-2024	13-NOV-2024	NP
Moisture Content			

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312802	EX2-WWLS16	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CK
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312802	EX2-WWLS16	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content	13-NOV-2024	13-NOV-2024	IW

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312803	EX2-SFS15	Soil	11-NOV-2024	11-NOV-2024

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PROJECT: 267991.012

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312803	EX2-SFS15	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CK
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312803	EX2-SFS15	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content	13-NOV-2024	13-NOV-2024	IW

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312805	EX2-WFS16	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CK
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312805	EX2-WFS16	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content	13-NOV-2024	13-NOV-2024	IW

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312806	EX2-FS17	Soil	11-NOV-2024	11-NOV-2024

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Time Markers

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312806	EX2-FS17	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CK
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312806	EX2-FS17	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content	13-NOV-2024	13-NOV-2024	IW

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312807	EX2-FS18	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CK
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312807	EX2-FS18	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content	13-NOV-2024	13-NOV-2024	IW

6312808	DUP30	Soil	11-NOV-2024	11-NOV-2024

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312808	DUP30	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	12-NOV-2024	12-NOV-2024	CK
F1 (C6 to C10) minus BTEX	12-NOV-2024	12-NOV-2024	SYS
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
F2 (C10 to C16)	13-NOV-2024	13-NOV-2024	SS
F3 (C16 to C34)	13-NOV-2024	13-NOV-2024	SS
F4 (C34 to C50)	13-NOV-2024	13-NOV-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	13-NOV-2024	13-NOV-2024	IW
Terphenyl	13-NOV-2024	13-NOV-2024	SS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	12-NOV-2024	12-NOV-2024	CK
Vinyl Chloride	12-NOV-2024	12-NOV-2024	CK
Bromomethane	12-NOV-2024	12-NOV-2024	CK
Trichlorofluoromethane	12-NOV-2024	12-NOV-2024	CK
Acetone	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methylene Chloride	12-NOV-2024	12-NOV-2024	CK
Trans- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Methyl tert-butyl Ether	12-NOV-2024	12-NOV-2024	CK
1,1-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
Methyl Ethyl Ketone	12-NOV-2024	12-NOV-2024	CK
Cis- 1,2-Dichloroethylene	12-NOV-2024	12-NOV-2024	CK
Chloroform	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloroethane	12-NOV-2024	12-NOV-2024	CK
1,1,1-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Carbon Tetrachloride	12-NOV-2024	12-NOV-2024	CK
Benzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichloropropane	12-NOV-2024	12-NOV-2024	CK
Trichloroethylene	12-NOV-2024	12-NOV-2024	CK
Bromodichloromethane	12-NOV-2024	12-NOV-2024	CK
Methyl Isobutyl Ketone	12-NOV-2024	12-NOV-2024	CK
1,1,2-Trichloroethane	12-NOV-2024	12-NOV-2024	CK
Toluene	12-NOV-2024	12-NOV-2024	CK
Dibromochloromethane	12-NOV-2024	12-NOV-2024	CK
Ethylene Dibromide	12-NOV-2024	12-NOV-2024	CK
Tetrachloroethylene			
1,1,1,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK

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AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6312808	DUP30	Soil	11-NOV-2024	11-NOV-2024

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	12-NOV-2024	12-NOV-2024	CK
Ethylbenzene	12-NOV-2024	12-NOV-2024	CK
m & p-Xylene	12-NOV-2024	12-NOV-2024	CK
Bromoform	12-NOV-2024	12-NOV-2024	CK
Styrene	12-NOV-2024	12-NOV-2024	CK
1,1,2,2-Tetrachloroethane	12-NOV-2024	12-NOV-2024	CK
o-Xylene	12-NOV-2024	12-NOV-2024	CK
1,3-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,4-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
1,2-Dichlorobenzene	12-NOV-2024	12-NOV-2024	CK
Xylenes (Total)	12-NOV-2024	12-NOV-2024	SYS
1,3-Dichloropropene (Cis + Trans)	12-NOV-2024	12-NOV-2024	SYS
n-Hexane	12-NOV-2024	12-NOV-2024	CK
Toluene-d8	12-NOV-2024	12-NOV-2024	CK
4-Bromofluorobenzene	12-NOV-2024	12-NOV-2024	CK
Moisture Content	13-NOV-2024	13-NOV-2024	IW

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ethylene Dibromide	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

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Method Summary

CLIENT NAME: PINCHIN LTD. **AGAT WORK ORDER: 24Z219724**

PROJECT: 267991.012 **ATTENTION TO: Alicia McDonald**

SAMPLING SITE: **SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

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MISSISSAUGA, ONTARIO
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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z219724

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 04721972-4

Cooler Quantity: 1 W

Arrival Temperatures: 3.9 | 4.1 | 4.9

Depot Temperatures: | |

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: F/I

Report Information:

Company: Pinchin

Contact: Alicia McDald

Address:

Phone: Fax:

Reports to be sent to:

1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☑ Res/Park ☐ Agriculture

Soil Texture (Check One): ☐ Coarse ☑ Fine

☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other (Indicate One)

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: 21079L.02

Site Location:

Sampled By:

AGAT Quote #: PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:

Contact:

Address:

Email:

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ~~ICAM~~ CrVI, Hg, 2 LHg, HWSB	O. Reg 153: ~~BTEX~~ F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs TCLP:	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX1-FS10	11/11/24	AM/PM	2	S					B									
2. EX1-FS11		AM/PM	2	S					B									
3. EX1-EWLS05		AM/PM	3	S				B		B	B							
4. EX1-EWLS26		AM/PM	3	S			JM	B	B	B	B							
5. EX1-EWLS27		AM/PM	3	S				B		B	B							
6. EX1-EWLS28		AM/PM	3	S					B	B	B							
7. EX1-FS12		AM/PM	2	S					B									
8. DUP 29		AM/PM	2	S					B									
9. EX2-WWLS15		AM/PM	2	S				B			B							
10. EX2-WWLS16		AM/PM	2	S					B	B								
11. EX2-SFS15	11/11/24	AM/PM	2	S					B	B								

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J.McCann	11/11/24	4:35	AB	12Nov	9AM

Page 1 of 2

N°: T-157306

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Document ID: DIV-79-1511.023

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Date Issued: Jan 18, 2024

AGAT Laboratories

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Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email:
2. Email:

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☑ Fine

☐ Regulation 406
Table ____ (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24Z219794
Cooler Quantity: See pg. 1
Arrival Temperatures:
Depot Temperatures:
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: ~~BTEX~~ F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX2-WFS16	11/11/24	P AM PM	2	S					6	6									
2. EX2-FS17	"	P AM PM	2	S					6	6									
3. EX2-FS18	"	P AM PM	2	S					6	6									
4. DUP 30	11/11/24	P AM PM	2	S					6	6									
5.		AM PM																	
6.		AM PM																	
7.		AM PM																	
8.		AM PM																	
9.		AM PM																	
10.		AM PM																	
11.		AM PM																	

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
J. McCann	11/11/24	4:35	AB	12 Nov	9 AM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 2

№: T-157307

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Document ID: DIV-78-1511-023

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Date Issued: Jan 18, 2024

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z220220
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager
DATE REPORTED: Nov 14, 2024
PAGES (INCLUDING COVER): 17
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-14

				SAMPLE DESCRIPTION:	EX2-SEWUS17	EX2-EWLU19
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2024-11-12 12:00	2024-11-12 12:00
Parameter	Unit	G / S	RDL		6318159	6318165
Antimony	µg/g	7.5	0.8		<0.8	<0.8
Arsenic	µg/g	18	1		3	3
Barium	µg/g	390	2.0		110	178
Beryllium	µg/g	5	0.5		<0.5	0.5
Boron	µg/g	120	5		<5	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10		0.33	0.55
Cadmium	µg/g	1.2	0.5		<0.5	0.5
Chromium	µg/g	160	5		30	41
Cobalt	µg/g	22	0.8		8.9	9.1
Copper	µg/g	180	1.0		20.5	42.1
Lead	µg/g	120	1		41	115
Molybdenum	µg/g	6.9	0.5		<0.5	0.6
Nickel	µg/g	130	1		18	22
Selenium	µg/g	2.4	0.8		<0.8	<0.8
Silver	µg/g	25	0.5		<0.5	<0.5
Thallium	µg/g	1	0.5		<0.5	<0.5
Uranium	µg/g	23	0.50		0.55	0.76
Vanadium	µg/g	86	2.0		42.3	45.4
Zinc	µg/g	340	5		81	167
Chromium, Hexavalent	µg/g	10	0.2		<0.2	<0.2
Mercury	µg/g	1.8	0.10		<0.10	<0.10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-14

				SAMPLE DESCRIPTION:	EX2-SEWUS17	EX2-EWLU19
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2024-11-12 12:00	2024-11-12 12:00
Parameter	**Unit**	**G / S**	**RDL**		**6318159**	**6318165**
Naphthalene	µg/g	0.75	0.05		<0.05	0.31
Acenaphthylene	µg/g	0.17	0.05		<0.05	<0.05
Acenaphthene	µg/g	58	0.05		0.06	0.62
Fluorene	µg/g	69	0.05		<0.05	0.84
Phenanthrene	µg/g	7.8	0.05		0.62	5.04
Anthracene	µg/g	0.74	0.05		0.13	**1.68**
Fluoranthene	µg/g	0.69	0.05		**0.97**	**5.85**
Pyrene	µg/g	78	0.05		0.84	4.60
Benzo(a)anthracene	µg/g	0.63	0.05		0.23	**2.13**
Chrysene	µg/g	7.8	0.05		0.40	2.28
Benzo(b)fluoranthene	µg/g	0.78	0.05		0.16	**1.45**
Benzo(k)fluoranthene	µg/g	0.78	0.05		0.13	0.70
Benzo(a)pyrene	µg/g	0.3	0.05		0.14	**1.19**
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05		0.06	0.46
Dibenz(a,h)anthracene	µg/g	0.1	0.05		<0.05	0.08
Benzo(g,h,i)perylene	µg/g	7.8	0.05		0.08	0.53
2-and 1-methyl Naphthalene	µg/g	3.4	0.05		<0.05	0.53
Moisture Content	%		0.1		14.4	12.7
Surrogate	**Unit**	**Acceptable Limits**				
Naphthalene-d8	%	50-140			95	105
Acridine-d9	%	50-140			80	75
Terphenyl-d14	%	50-140			80	85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6318159-6318165 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-14

		SAMPLE DESCRIPTION:		EX2-SFS19	EX2-FS20	EX2-FS21	EX2-SFS24	EX2-FS25	EX2-FS26	EX2-SFS27	EX2-SEWLS18
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	**Unit**	**G / S**	**RDL**	**6318135**	**6318138**	**6318139**	**6318142**	**6318143**	**6318144**	**6318145**	**6318160**
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	19.3	22.1	19.8	18.1	19.2	20.8	14.9	15.0
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	%	50-140		99	100	101	94	99	105	97	94
Terphenyl	%	60-140		87	93	82	71	84	79	84	76

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6318135-6318160 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F2 - F4 (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-14

		SAMPLE DESCRIPTION:		EX2-FS22	EX2-FS23	DUP31	EX2-EWLS20
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-12	2024-11-12	2024-11-12	2024-11-12 12:00
Parameter	**Unit**	**G / S**	**RDL**	**6318140**	**6318141**	**6318146**	**6318167**
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA
Moisture Content	%		0.1	21.8	17.1	12.2	18.8
Surrogate	**Unit**	**Acceptable Limits**					
Terphenyl	%	60-140		87	78	97	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6318140-6318167 Results are based on sample dry weight.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-14

		SAMPLE DESCRIPTION:		EX2-SFS19	EX2-FS20	EX2-FS21	EX2-SFS24	EX2-FS25	EX2-FS26	EX2-SFS27	EX2-SEWLS18
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	Unit	G / S	RDL	6318135	6318138	6318139	6318142	6318143	6318144	6318145	6318160
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-14

		SAMPLE DESCRIPTION:		EX2-SFS19	EX2-FS20	EX2-FS21	EX2-SFS24	EX2-FS25	EX2-FS26	EX2-SFS27	EX2-SEWLS18
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	**Unit**	**G / S**	**RDL**	**6318135**	**6318138**	**6318139**	**6318142**	**6318143**	**6318144**	**6318145**	**6318160**
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	19.3	22.1	19.8	18.1	19.2	20.8	14.9	15.0
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		99	100	101	94	99	105	97	94
4-Bromofluorobenzene	% Recovery	50-140		78	76	82	70	77	79	72	72

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6318135-6318160 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

Results relate only to the items tested. Results apply to samples as received.

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Exceedance Summary

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6318159	EX2-SEWUS17	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	µg/g	0.69	0.97
6318165	EX2-EWLU19	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Anthracene	µg/g	0.74	1.68
6318165	EX2-EWLU19	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)anthracene	µg/g	0.63	2.13
6318165	EX2-EWLU19	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	µg/g	0.3	1.19
6318165	EX2-EWLU19	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	µg/g	0.78	1.45
6318165	EX2-EWLU19	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	µg/g	0.69	5.85

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Quality Assurance

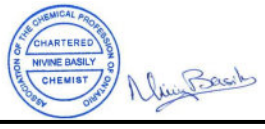
CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z220220
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Nov 14, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6319756		<0.8	<0.8	NA	< 0.8	99%	70%	130%	89%	80%	120%	72%	70%	130%
Arsenic	6319756		4	4	NA	< 1	110%	70%	130%	97%	80%	120%	101%	70%	130%
Barium	6319756		36.1	37.7	4.3%	< 2.0	100%	70%	130%	99%	80%	120%	126%	70%	130%
Beryllium	6319756		<0.5	<0.5	NA	< 0.5	106%	70%	130%	116%	80%	120%	130%	70%	130%
Boron	6319756		<5	<5	NA	< 5	76%	70%	130%	94%	80%	120%	111%	70%	130%
Boron (Hot Water Soluble)	6318159	6318159	0.33	0.32	NA	< 0.10	114%	60%	140%	94%	70%	130%	97%	60%	140%
Cadmium	6319756		<0.5	<0.5	NA	< 0.5	99%	70%	130%	97%	80%	120%	100%	70%	130%
Chromium	6319756		11	11	NA	< 5	98%	70%	130%	96%	80%	120%	100%	70%	130%
Cobalt	6319756		3.1	3.2	NA	< 0.8	100%	70%	130%	109%	80%	120%	100%	70%	130%
Copper	6319756		10.6	11.1	4.3%	< 1.0	93%	70%	130%	97%	80%	120%	98%	70%	130%
Lead	6319756		9	10	5.3%	< 1	105%	70%	130%	91%	80%	120%	89%	70%	130%
Molybdenum	6319756		<0.5	<0.5	NA	< 0.5	105%	70%	130%	99%	80%	120%	106%	70%	130%
Nickel	6319756		7	7	3.5%	< 1	101%	70%	130%	112%	80%	120%	99%	70%	130%
Selenium	6319756		<0.8	<0.8	NA	< 0.8	121%	70%	130%	100%	80%	120%	108%	70%	130%
Silver	6319756		<0.5	<0.5	NA	< 0.5	108%	70%	130%	112%	80%	120%	102%	70%	130%
Thallium	6319756		<0.5	<0.5	NA	< 0.5	97%	70%	130%	104%	80%	120%	127%	70%	130%
Uranium	6319756		<0.50	<0.50	NA	< 0.50	82%	70%	130%	102%	80%	120%	103%	70%	130%
Vanadium	6319756		15.0	16.1	7.5%	< 2.0	105%	70%	130%	110%	80%	120%	105%	70%	130%
Zinc	6319756		34	38	10.9%	< 5	102%	70%	130%	101%	80%	120%	102%	70%	130%
Chromium, Hexavalent	6317015		<0.2	<0.2	NA	< 0.2	96%	70%	130%	99%	80%	120%	76%	70%	130%
Mercury	6319756		<0.10	<0.10	NA	< 0.10	98%	70%	130%	91%	80%	120%	97%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Nov 14, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F1 (C6 to C10)	6311975		<5	<5	NA	< 5	128%	60%	140%	117%	60%	140%	90%	60%	140%
F2 (C10 to C16)	6305325		< 10	< 10	NA	< 10	96%	60%	140%	105%	60%	140%	101%	60%	140%
F3 (C16 to C34)	6305325		< 50	< 50	NA	< 50	94%	60%	140%	122%	60%	140%	107%	60%	140%
F4 (C34 to C50)	6305325		< 50	< 50	NA	< 50	67%	60%	140%	106%	60%	140%	95%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6311975		<0.05	<0.05	NA	< 0.05	78%	50%	140%	94%	50%	140%	112%	50%	140%
Vinyl Chloride	6311975		<0.02	<0.02	NA	< 0.02	82%	50%	140%	89%	50%	140%	107%	50%	140%
Bromomethane	6311975		<0.05	<0.05	NA	< 0.05	101%	50%	140%	98%	50%	140%	119%	50%	140%
Trichlorofluoromethane	6311975		<0.05	<0.05	NA	< 0.05	112%	50%	140%	86%	50%	140%	117%	50%	140%
Acetone	6311975		<0.50	<0.50	NA	< 0.50	89%	50%	140%	103%	50%	140%	109%	50%	140%
1,1-Dichloroethylene	6311975		<0.05	<0.05	NA	< 0.05	78%	50%	140%	63%	60%	130%	64%	50%	140%
Methylene Chloride	6311975		<0.05	<0.05	NA	< 0.05	67%	50%	140%	98%	60%	130%	97%	50%	140%
Trans- 1,2-Dichloroethylene	6311975		<0.05	<0.05	NA	< 0.05	79%	50%	140%	72%	60%	130%	98%	50%	140%
Methyl tert-butyl Ether	6311975		<0.05	<0.05	NA	< 0.05	65%	50%	140%	100%	60%	130%	65%	50%	140%
1,1-Dichloroethane	6311975		<0.02	<0.02	NA	< 0.02	85%	50%	140%	76%	60%	130%	65%	50%	140%
Methyl Ethyl Ketone	6311975		<0.50	<0.50	NA	< 0.50	84%	50%	140%	99%	50%	140%	117%	50%	140%
Cis- 1,2-Dichloroethylene	6311975		<0.02	<0.02	NA	< 0.02	105%	50%	140%	110%	60%	130%	86%	50%	140%
Chloroform	6311975		<0.04	<0.04	NA	< 0.04	66%	50%	140%	99%	60%	130%	90%	50%	140%
1,2-Dichloroethane	6311975		<0.03	<0.03	NA	< 0.03	76%	50%	140%	103%	60%	130%	100%	50%	140%
1,1,1-Trichloroethane	6311975		<0.05	<0.05	NA	< 0.05	76%	50%	140%	103%	60%	130%	76%	50%	140%
Carbon Tetrachloride	6311975		<0.05	<0.05	NA	< 0.05	75%	50%	140%	93%	60%	130%	71%	50%	140%
Benzene	6311975		<0.02	<0.02	NA	< 0.02	63%	50%	140%	103%	60%	130%	77%	50%	140%
1,2-Dichloropropane	6311975		<0.03	<0.03	NA	< 0.03	103%	50%	140%	102%	60%	130%	75%	50%	140%
Trichloroethylene	6311975		<0.03	<0.03	NA	< 0.03	60%	50%	140%	111%	60%	130%	101%	50%	140%
Bromodichloromethane	6311975		<0.05	<0.05	NA	< 0.05	63%	50%	140%	107%	60%	130%	87%	50%	140%
Methyl Isobutyl Ketone	6311975		<0.50	<0.50	NA	< 0.50	76%	50%	140%	89%	50%	140%	91%	50%	140%
1,1,2-Trichloroethane	6311975		<0.04	<0.04	NA	< 0.04	89%	50%	140%	99%	60%	130%	102%	50%	140%
Toluene	6311975		<0.05	<0.05	NA	< 0.05	69%	50%	140%	120%	60%	130%	105%	50%	140%
Dibromochloromethane	6311975		<0.05	<0.05	NA	< 0.05	85%	50%	140%	111%	60%	130%	93%	50%	140%
Ethylene Dibromide	6311975		<0.04	<0.04	NA	< 0.04	86%	50%	140%	102%	60%	130%	101%	50%	140%
Tetrachloroethylene	6311975		<0.05	<0.05	NA	< 0.05	74%	50%	140%	107%	60%	130%	86%	50%	140%
1,1,1,2-Tetrachloroethane	6311975		<0.04	<0.04	NA	< 0.04	76%	50%	140%	94%	60%	130%	101%	50%	140%
Chlorobenzene	6311975		<0.05	<0.05	NA	< 0.05	69%	50%	140%	105%	60%	130%	94%	50%	140%
Ethylbenzene	6311975		<0.05	<0.05	NA	< 0.05	60%	50%	140%	99%	60%	130%	81%	50%	140%
m & p-Xylene	6311975		<0.05	<0.05	NA	< 0.05	81%	50%	140%	115%	60%	130%	95%	50%	140%
Bromoform	6311975		<0.05	<0.05	NA	< 0.05	99%	50%	140%	114%	60%	130%	98%	50%	140%
Styrene	6311975		<0.05	<0.05	NA	< 0.05	61%	50%	140%	87%	60%	130%	73%	50%	140%
1,1,2,2-Tetrachloroethane	6311975		<0.05	<0.05	NA	< 0.05	100%	50%	140%	92%	60%	130%	102%	50%	140%
o-Xylene	6311975		<0.05	<0.05	NA	< 0.05	67%	50%	140%	102%	60%	130%	90%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Nov 14, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	6311975		<0.05	<0.05	NA	< 0.05	86%	50%	140%	105%	60%	130%	96%	50%	140%
1,4-Dichlorobenzene	6311975		<0.05	<0.05	NA	< 0.05	90%	50%	140%	104%	60%	130%	93%	50%	140%
1,2-Dichlorobenzene	6311975		<0.05	<0.05	NA	< 0.05	83%	50%	140%	100%	60%	130%	95%	50%	140%
n-Hexane	6311975		<0.05	<0.05	NA	< 0.05	108%	50%	140%	98%	60%	130%	89%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F2 (C10 to C16)	6305421		< 10	< 10	NA	< 10	95%	60%	140%	112%	60%	140%	98%	60%	140%
F3 (C16 to C34)	6305421		< 50	< 50	NA	< 50	100%	60%	140%	116%	60%	140%	109%	60%	140%
F4 (C34 to C50)	6305421		< 50	< 50	NA	< 50	78%	60%	140%	79%	60%	140%	75%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6305325		<0.05	<0.05	NA	< 0.05	92%	50%	140%	80%	50%	140%	73%	50%	140%
Acenaphthylene	6305325		<0.05	<0.05	NA	< 0.05	89%	50%	140%	85%	50%	140%	75%	50%	140%
Acenaphthene	6305325		<0.05	<0.05	NA	< 0.05	86%	50%	140%	75%	50%	140%	83%	50%	140%
Fluorene	6305325		<0.05	<0.05	NA	< 0.05	88%	50%	140%	80%	50%	140%	75%	50%	140%
Phenanthrene	6305325		<0.05	<0.05	NA	< 0.05	91%	50%	140%	73%	50%	140%	85%	50%	140%
Anthracene	6305325		<0.05	<0.05	NA	< 0.05	71%	50%	140%	73%	50%	140%	78%	50%	140%
Fluoranthene	6305325		<0.05	<0.05	NA	< 0.05	93%	50%	140%	73%	50%	140%	78%	50%	140%
Pyrene	6305325		<0.05	<0.05	NA	< 0.05	90%	50%	140%	78%	50%	140%	78%	50%	140%
Benzo(a)anthracene	6305325		<0.05	<0.05	NA	< 0.05	75%	50%	140%	95%	50%	140%	80%	50%	140%
Chrysene	6305325		<0.05	<0.05	NA	< 0.05	101%	50%	140%	100%	50%	140%	85%	50%	140%
Benzo(b)fluoranthene	6305325		<0.05	<0.05	NA	< 0.05	71%	50%	140%	83%	50%	140%	85%	50%	140%
Benzo(k)fluoranthene	6305325		<0.05	<0.05	NA	< 0.05	90%	50%	140%	83%	50%	140%	83%	50%	140%
Benzo(a)pyrene	6305325		<0.05	<0.05	NA	< 0.05	77%	50%	140%	73%	50%	140%	75%	50%	140%
Indeno(1,2,3-cd)pyrene	6305325		<0.05	<0.05	NA	< 0.05	73%	50%	140%	73%	50%	140%	93%	50%	140%
Dibenz(a,h)anthracene	6305325		<0.05	<0.05	NA	< 0.05	75%	50%	140%	80%	50%	140%	75%	50%	140%
Benzo(g,h,i)perylene	6305325		<0.05	<0.05	NA	< 0.05	90%	50%	140%	95%	50%	140%	83%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: R. Chakraberty

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

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CANADA L4Z 1Y2
TEL (905)712-5100
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http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220220

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: jmcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☒ Res/Park ☐ Agriculture
Soil Texture (Check One): ☐ Coarse ☒ Fine

☐ Regulation 406 — Table (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other — Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24Z220220
Cooler Quantity: 1 L
Arrival Temperatures: 3.9 | 3.8 | 3.4
Depot Temperatures: | |
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: BI

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	F1-F4 PHCs	VOC	PAHs	PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX2-SFS19	12/11/24	AM/PM	2	S					☒	☒								
2. EX2-FS20		AM/PM	2	S					☒	☒								
3. EX2-FS21		AM/PM	2	S					☒	☒								
4. EX2-FS22		AM/PM	2	S					☒	☒								
5. EX2-FS23		AM/PM	2	S					☒	☒								
6. EX2-SFS24		AM/PM	2	S					☒	☒								
7. EX2-FS25		AM/PM	2	S					☒	☒								
8. EX2-FS26		AM/PM	2	S					☒	☒								
9. EX2-FS SFS27		AM/PM	2	S					☒	☒								
10. DUP 31		AM/PM	2	S					☒	☒								
11. —	12/11/24	AM/PM																

	Date	Time		Date	Time
Samples Relinquished By (Print Name and Sign): J.McCann	12/11/24	4:55	Samples Received By (Print Name and Sign):	Nov 13	9 AM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 2

N°: T - 157308

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Document ID: DIV78-1511.023

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Date Issued: Jan 19, 2024

AGAT Laboratories

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5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☑ Res/Park
☐ Agriculture

Soil Texture (Check One)
☐ Coarse
☑ Fine

☐ Regulation 406
Table (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

Is this submission for a Record of Site Condition (RSC)? ☑ Yes ☐ No

Report Guideline on Certificate of Analysis ☑ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures:
Depot Temperatures: Shipped
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs TCLP:	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX2-SEWLS17	12/11/24	P AM PM	2	S				X			X							
2. EX2-SEWLS18	↓	P AM PM	3	S					X	X								
3. EX2-EWLS19	↓	P AM PM	2	S				X			X							
4. EX2-EWLS20	12/11/24	P AM PM	3	S					X	X								
5.		AM PM																
6.		AM PM																
7.		AM PM																
8.		AM PM																
9.		AM PM																
10.		AM PM																
11.		AM PM																

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J.McCann	12/11/24	4:55		Nov 13	9 AM
	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time

Page 2 of 2

Nº: T - 157309

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Document ID: DIV-TB-1511.023

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Date Issued: Jan 10, 2024

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: **PINCHIN LTD.**
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013

ATTENTION TO: **Alicia McDonald**

PROJECT: **267991.012**

AGAT WORK ORDER: **24Z220741**

SOIL ANALYSIS REVIEWED BY: **Sukhwinder Randhawa, Inorganic Team Lead**

TRACE ORGANICS REVIEWED BY: **Neli Popnikolova, Senior Chemist**

DATE REPORTED: **Nov 15, 2024**

PAGES (INCLUDING COVER): **40**

VERSION*: **1**

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-15

		SAMPLE DESCRIPTION:		Ex2-FS30	Ex2-FS31	Ex2-FS32	Ex2-FS33	Ex2-FS34	Ex2-NWWUS30	Ex2-NWWLS31	Ex2-NWUSS32
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13
Parameter	Unit	G / S	RDL	6321180	6321181	6321182	6321183	6321184	6321185	6321186	6321187
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	<1	1	<1	<1	<1	5	2	4
Barium	µg/g	390	2.0	25.0	59.7	43.2	43.7	36.4	112	83.0	68.9
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5	<5	<5	6	<5	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.28	0.37	0.22	0.11	<0.10	0.14	0.82	1.45
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	9	17	11	9	10	21	28	23
Cobalt	µg/g	22	0.8	2.7	4.8	3.2	3.5	2.2	8.4	7.1	5.9
Copper	µg/g	180	1.0	7.5	12.9	8.5	8.5	7.8	21.8	18.0	19.1
Lead	µg/g	120	1	2	3	3	2	3	14	12	19
Molybdenum	µg/g	6.9	0.5	0.6	<0.5	<0.5	<0.5	<0.5	1.1	0.7	1.4
Nickel	µg/g	130	1	5	8	5	6	5	17	17	14
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	<0.50	0.57	0.50	<0.50	<0.50	0.69	0.80	0.64
Vanadium	µg/g	86	2.0	15.8	25.4	21.1	18.3	17.6	33.9	39.8	27.1
Zinc	µg/g	340	5	12	24	16	13	14	47	46	59
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12

Certified By:



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-15

SAMPLE DESCRIPTION:				Ex2-NWLS33	Ex2-NWUS34	DUP32	Ex2-NWLS35	Ex2-NWUS36	Ex2-NWLS37	Ex2-NWUS38	Ex2-NWLS39
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13
Parameter	Unit	G / S	RDL	6321188	6321189	6321190	6321191	6321192	6321193	6321194	6321195
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	2	2	1	3	3	2	3	1
Barium	µg/g	390	2.0	58.3	97.5	63.8	102	49.9	87.7	129	97.2
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	6	<5	<5	<5	<5	5	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.45	**2.16**	0.41	0.55	<0.10	1.47	0.26	**2.14**
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	19	24	17	27	10	28	17	23
Cobalt	µg/g	22	0.8	4.8	6.3	5.2	7.2	5.5	7.1	6.4	6.4
Copper	µg/g	180	1.0	18.9	20.6	13.9	18.3	12.4	8.4	19.5	6.9
Lead	µg/g	120	1	4	21	4	7	7	6	20	6
Molybdenum	µg/g	6.9	0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5
Nickel	µg/g	130	1	12	15	9	16	9	14	13	11
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.58	0.79	0.57	0.74	0.52	0.80	0.64	0.78
Vanadium	µg/g	86	2.0	29.3	34.0	26.7	37.6	20.1	33.1	27.0	26.6
Zinc	µg/g	340	5	23	53	25	33	23	40	52	43
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.17

Certified By:



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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-15

		SAMPLE DESCRIPTION:		Ex2-NWUS40	Ex2-NWLS41	Ex2-NWUS42	Ex2-NWLS43	DUP33
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13
Parameter	Unit	G / S	RDL	6321196	6321197	6321198	6321199	6321200
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	1	2	2	2	2
Barium	µg/g	390	2.0	59.7	123	157	164	112
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.37	**1.67**	0.57	1.00	**2.37**
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	0.7	<0.5	<0.5
Chromium	µg/g	160	5	19	29	31	34	30
Cobalt	µg/g	22	0.8	5.2	7.5	8.5	7.9	7.4
Copper	µg/g	180	1.0	6.3	11.0	14.8	12.9	11.7
Lead	µg/g	120	1	6	16	29	12	13
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	11	14	16	16	15
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	<0.50	1.21	1.04	1.38	1.05
Vanadium	µg/g	86	2.0	25.6	32.2	35.0	33.6	33.0
Zinc	µg/g	340	5	34	67	141	70	74
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-13 **DATE REPORTED: 2024-11-15**

		SAMPLE DESCRIPTION:		Ex2-FS30	Ex2-FS31	Ex2-FS32	Ex2-FS33	Ex2-FS34	Ex2-NWWLS31	Ex2-NWLS33	DUP32
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13
Parameter	**Unit**	**G / S**	**RDL**	**6321180**	**6321181**	**6321182**	**6321183**	**6321184**	**6321186**	**6321188**	**6321190**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50	<50	201	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	14.2	16.5	15.1	16.7	18.1	12.5	13.3	14.8
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	60-140		80	94	90	92	99	101	74	83
Terphenyl	%	60-140		87	90	91	96	83	77	81	84

Certified By:

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-13 **DATE REPORTED: 2024-11-15**

		SAMPLE DESCRIPTION:		Ex2-NWLS35	Ex2-NWUS36	Ex2-NWLS37	Ex2-NWUS38	Ex2-NWLS39	Ex2-NWUS40	Ex2-NWLS41	Ex2-NWUS42
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13	2024-11-13
Parameter	**Unit**	**G / S**	**RDL**	**6321191**	**6321192**	**6321193**	**6321194**	**6321195**	**6321196**	**6321197**	**6321198**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	91	<50	<50	<50	230
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	18.6	16.3	16.0	20.0	16.0	18.4	16.5	17.0
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	60-140		92	85	97	101	108	80	106	93
Terphenyl	%	60-140		91	77	73	98	76	90	91	72

Certified By:

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-15

		SAMPLE DESCRIPTION:		Ex2-NWLS43	DUP33	Ex1-FS3BR2
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-13	2024-11-13	2024-11-13
Parameter	**Unit**	**G / S**	**RDL**	**6321199**	**6321200**	**6321201**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	98	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA
Moisture Content	%		0.1	16.1	13.2	15.3
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	60-140		90	98	95
Terphenyl	%	60-140		89	110	87

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-13 **DATE REPORTED: 2024-11-15**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6321180-6321201 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

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Exceedance Summary

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6321189	Ex2-NWUS34	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	2.16
6321195	Ex2-NWLS39	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	2.14
6321197	Ex2-NWLS41	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	1.67
6321200	DUP33	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	2.37

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z220741
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Nov 15, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6321180	6321180	<0.8	<0.8	NA	< 0.8	108%	70%	130%	82%	80%	120%	81%	70%	130%
Arsenic	6321180	6321180	<1	<1	NA	< 1	110%	70%	130%	94%	80%	120%	94%	70%	130%
Barium	6321180	6321180	25.0	24.7	1.2%	< 2.0	123%	70%	130%	109%	80%	120%	117%	70%	130%
Beryllium	6321180	6321180	<0.5	<0.5	NA	< 0.5	90%	70%	130%	85%	80%	120%	97%	70%	130%
Boron	6321180	6321180	<5	<5	NA	< 5	73%	70%	130%	95%	80%	120%	81%	70%	130%
Boron (Hot Water Soluble)	6321180	6321180	0.28	0.30	NA	< 0.10	85%	60%	140%	94%	70%	130%	96%	60%	140%
Cadmium	6321180	6321180	<0.5	<0.5	NA	< 0.5	109%	70%	130%	95%	80%	120%	99%	70%	130%
Chromium	6321180	6321180	9	8	NA	< 5	97%	70%	130%	96%	80%	120%	97%	70%	130%
Cobalt	6321180	6321180	2.7	2.7	NA	< 0.8	104%	70%	130%	96%	80%	120%	94%	70%	130%
Copper	6321180	6321180	7.5	7.4	1.3%	< 1.0	101%	70%	130%	100%	80%	120%	95%	70%	130%
Lead	6321180	6321180	2	2	NA	< 1	109%	70%	130%	98%	80%	120%	98%	70%	130%
Molybdenum	6321180	6321180	0.6	<0.5	NA	< 0.5	118%	70%	130%	101%	80%	120%	104%	70%	130%
Nickel	6321180	6321180	5	5	0.0%	< 1	104%	70%	130%	96%	80%	120%	93%	70%	130%
Selenium	6321180	6321180	<0.8	<0.8	NA	< 0.8	116%	70%	130%	98%	80%	120%	100%	70%	130%
Silver	6321180	6321180	<0.5	<0.5	NA	< 0.5	120%	70%	130%	97%	80%	120%	100%	70%	130%
Thallium	6321180	6321180	<0.5	<0.5	NA	< 0.5	70%	70%	130%	92%	80%	120%	91%	70%	130%
Uranium	6321180	6321180	<0.50	<0.50	NA	< 0.50	102%	70%	130%	91%	80%	120%	93%	70%	130%
Vanadium	6321180	6321180	15.8	16.2	2.5%	< 2.0	103%	70%	130%	95%	80%	120%	98%	70%	130%
Zinc	6321180	6321180	12	12	NA	< 5	107%	70%	130%	98%	80%	120%	96%	70%	130%
Chromium, Hexavalent	6321180	6321180	<0.2	<0.2	NA	< 0.2	92%	70%	130%	102%	80%	120%	85%	70%	130%
Mercury	6321180	6321180	<0.10	<0.10	NA	< 0.10	109%	70%	130%	97%	80%	120%	97%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

O. Reg. 153(511) - All Metals (Soil)															
Antimony	6306963		<0.8	<0.8	NA	< 0.8	115%	70%	130%	95%	80%	120%	75%	70%	130%
Arsenic	6306963		2	2	NA	< 1	120%	70%	130%	103%	80%	120%	109%	70%	130%
Barium	6306963		60.3	60.7	0.7%	< 2.0	97%	70%	130%	102%	80%	120%	127%	70%	130%
Beryllium	6306963		<0.5	<0.5	NA	< 0.5	102%	70%	130%	116%	80%	120%	129%	70%	130%
Boron	6306963		5	6	NA	< 5	86%	70%	130%	100%	80%	120%	124%	70%	130%
Boron (Hot Water Soluble)	6321199	6321199	1	1.06	5.8%	< 0.10	85%	60%	140%	94%	70%	130%	96%	60%	140%
Cadmium	6306963		<0.5	<0.5	NA	< 0.5	117%	70%	130%	110%	80%	120%	115%	70%	130%
Chromium	6306963		12	12	NA	< 5	95%	70%	130%	99%	80%	120%	109%	70%	130%
Cobalt	6306963		5.1	4.8	6.1%	< 0.8	97%	70%	130%	100%	80%	120%	103%	70%	130%
Copper	6306963		9.8	10.7	8.8%	< 1.0	93%	70%	130%	100%	80%	120%	100%	70%	130%
Lead	6306963		2	2	NA	< 1	104%	70%	130%	96%	80%	120%	92%	70%	130%
Molybdenum	6306963		0.6	0.7	NA	< 0.5	117%	70%	130%	103%	80%	120%	112%	70%	130%
Nickel	6306963		8	8	0.0%	< 1	101%	70%	130%	102%	80%	120%	102%	70%	130%
Selenium	6306963		<0.8	<0.8	NA	< 0.8	126%	70%	130%	92%	80%	120%	114%	70%	130%

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AGAT Laboratories

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Soil Analysis (Continued)

RPT Date: Nov 15, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Silver	6306963		<0.5	<0.5	NA	< 0.5	105%	70%	130%	108%	80%	120%	108%	70%	130%
Thallium	6306963		<0.5	<0.5	NA	< 0.5	96%	70%	130%	131%	80%	120%	129%	70%	130%
Uranium	6306963		1.91	1.99	NA	< 0.50	83%	70%	130%	109%	80%	120%	112%	70%	130%
Vanadium	6306963		23.3	23.5	0.9%	< 2.0	103%	70%	130%	101%	80%	120%	113%	70%	130%
Zinc	6306963		18	18	NA	< 5	101%	70%	130%	104%	80%	120%	96%	70%	130%
Chromium, Hexavalent	6321200	6321200	<0.2	<0.2	NA	< 0.2	102%	70%	130%	95%	80%	120%	90%	70%	130%
Mercury	6306963		<0.10	<0.10	NA	< 0.10	99%	70%	130%	91%	80%	120%	97%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Matrix spike: More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Nov 15, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6311605		<0.02	<0.02	NA	< 0.02	115%	60%	140%	81%	60%	140%	71%	60%	140%
Toluene	6311605		<0.05	<0.05	NA	< 0.05	88%	60%	140%	72%	60%	140%	63%	60%	140%
Ethylbenzene	6311605		<0.05	<0.05	NA	< 0.05	112%	60%	140%	62%	60%	140%	64%	60%	140%
m & p-Xylene	6311605		<0.05	<0.05	NA	< 0.05	122%	60%	140%	106%	60%	140%	83%	60%	140%
o-Xylene	6311605		<0.05	<0.05	NA	< 0.05	108%	60%	140%	99%	60%	140%	88%	60%	140%
F1 (C6 to C10)	6311605		<5	<5	NA	< 5	86%	60%	140%	85%	60%	140%	103%	60%	140%
Toluene-d8	6311605		68	68	0.0%	< 1	NA			NA					
F2 (C10 to C16)	6321180	6321180	< 10	< 10	NA	< 10	114%	60%	140%	113%	60%	140%	106%	60%	140%
F3 (C16 to C34)	6321180	6321180	< 50	< 50	NA	< 50	109%	60%	140%	112%	60%	140%	108%	60%	140%
F4 (C34 to C50)	6321180	6321180	< 50	< 50	NA	< 50	84%	60%	140%	125%	60%	140%	115%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
F2 (C10 to C16)	6305325		< 10	< 10	NA	< 10	96%	60%	140%	105%	60%	140%	101%	60%	140%
F3 (C16 to C34)	6305325		< 50	< 50	NA	< 50	94%	60%	140%	122%	60%	140%	107%	60%	140%
F4 (C34 to C50)	6305325		< 50	< 50	NA	< 50	67%	60%	140%	106%	60%	140%	95%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
F2 (C10 to C16)	6306973		< 10	< 10	NA	< 10	110%	60%	140%	101%	60%	140%	102%	60%	140%
F3 (C16 to C34)	6306973		< 50	< 50	NA	< 50	107%	60%	140%	129%	60%	140%	123%	60%	140%
F4 (C34 to C50)	6306973		< 50	< 50	NA	< 50	86%	60%	140%	103%	60%	140%	105%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Nov 15, 2024		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)										
Thallium		96%	70%	130%	131%	80%	120%	129%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Matrix spike: More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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Time Markers

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321180	Ex2-FS30	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	15-NOV-2024	15-NOV-2024	CB
Toluene	15-NOV-2024	15-NOV-2024	CB
Ethylbenzene	15-NOV-2024	15-NOV-2024	CB
m & p-Xylene	15-NOV-2024	15-NOV-2024	CB
o-Xylene	15-NOV-2024	15-NOV-2024	CB
Xylenes (Total)	15-NOV-2024	15-NOV-2024	SYS
F1 (C6 to C10)	15-NOV-2024	15-NOV-2024	CB
F1 (C6 to C10) minus BTEX	15-NOV-2024	15-NOV-2024	SYS
Toluene-d8	15-NOV-2024	15-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

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Time Markers

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321181	Ex2-FS31	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321181	Ex2-FS31	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321182	Ex2-FS32	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321182	Ex2-FS32	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321183	Ex2-FS33	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321183	Ex2-FS33	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321184	Ex2-FS34	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321184	Ex2-FS34	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321185	Ex2-NWWUS30	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321185	Ex2-NWWUS30	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321186	Ex2-NWWLS31	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321186	Ex2-NWWLS31	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321187	Ex2-NWUSS32	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321188	Ex2-NWLS33	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321188	Ex2-NWLS33	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321189	Ex2-NWUS34	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321190	DUP32	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321190	DUP32	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321191	Ex2-NWLS35	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321191	Ex2-NWLS35	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321192	Ex2-NWUS36	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321192	Ex2-NWUS36	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321193	Ex2-NWLS37	Soil	13-NOV-2024	13-NOV-2024

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321193	Ex2-NWLS37	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321194	Ex2-NWUS38	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321194	Ex2-NWUS38	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321195	Ex2-NWLS39	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321195	Ex2-NWLS39	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321196	Ex2-NWUS40	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB

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Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321196	Ex2-NWUS40	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321197	Ex2-NWLS41	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

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AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321197	Ex2-NWLS41	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321198	Ex2-NWUS42	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321198	Ex2-NWUS42	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321199	Ex2-NWLS43	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	JA
Arsenic	14-NOV-2024	14-NOV-2024	JA
Barium	14-NOV-2024	14-NOV-2024	JA
Beryllium	14-NOV-2024	14-NOV-2024	JA
Boron	14-NOV-2024	14-NOV-2024	JA
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	JA
Chromium	14-NOV-2024	14-NOV-2024	JA
Cobalt	14-NOV-2024	14-NOV-2024	JA
Copper	14-NOV-2024	14-NOV-2024	JA
Lead	14-NOV-2024	14-NOV-2024	JA
Molybdenum	14-NOV-2024	14-NOV-2024	JA
Nickel	14-NOV-2024	14-NOV-2024	JA
Selenium	14-NOV-2024	14-NOV-2024	JA

Results relate only to the items tested. Results apply to samples as received.

5835 COOPERS AVENUE
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TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321199	Ex2-NWLS43	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Silver	14-NOV-2024	14-NOV-2024	JA
Thallium	14-NOV-2024	14-NOV-2024	JA
Uranium	14-NOV-2024	14-NOV-2024	JA
Vanadium	14-NOV-2024	14-NOV-2024	JA
Zinc	14-NOV-2024	14-NOV-2024	JA
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	JA

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321200	DUP33	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	14-NOV-2024	14-NOV-2024	SE
Arsenic	14-NOV-2024	14-NOV-2024	SE
Barium	14-NOV-2024	14-NOV-2024	SE
Beryllium	14-NOV-2024	14-NOV-2024	SE
Boron	14-NOV-2024	14-NOV-2024	SE
Boron (Hot Water Soluble)	14-NOV-2024	14-NOV-2024	AA
Cadmium	14-NOV-2024	14-NOV-2024	SE
Chromium	14-NOV-2024	14-NOV-2024	SE
Cobalt	14-NOV-2024	14-NOV-2024	SE

Results relate only to the items tested. Results apply to samples as received.

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http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321200	DUP33	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Copper	14-NOV-2024	14-NOV-2024	SE
Lead	14-NOV-2024	14-NOV-2024	SE
Molybdenum	14-NOV-2024	14-NOV-2024	SE
Nickel	14-NOV-2024	14-NOV-2024	SE
Selenium	14-NOV-2024	14-NOV-2024	SE
Silver	14-NOV-2024	14-NOV-2024	SE
Thallium	14-NOV-2024	14-NOV-2024	SE
Uranium	14-NOV-2024	14-NOV-2024	SE
Vanadium	14-NOV-2024	14-NOV-2024	SE
Zinc	14-NOV-2024	14-NOV-2024	SE
Chromium, Hexavalent	14-NOV-2024	14-NOV-2024	XL
Mercury	14-NOV-2024	14-NOV-2024	SE

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	14-NOV-2024	14-NOV-2024	CB
Toluene	14-NOV-2024	14-NOV-2024	CB
Ethylbenzene	14-NOV-2024	14-NOV-2024	CB
m & p-Xylene	14-NOV-2024	14-NOV-2024	CB
o-Xylene	14-NOV-2024	14-NOV-2024	CB
Xylenes (Total)	14-NOV-2024	14-NOV-2024	SYS
F1 (C6 to C10)	14-NOV-2024	14-NOV-2024	CB
F1 (C6 to C10) minus BTEX	14-NOV-2024	14-NOV-2024	SYS
Toluene-d8	14-NOV-2024	14-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	SD
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321201	Ex1-FS3BR2	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	15-NOV-2024	15-NOV-2024	CB
Toluene	15-NOV-2024	15-NOV-2024	CB
Ethylbenzene	15-NOV-2024	15-NOV-2024	CB
m & p-Xylene	15-NOV-2024	15-NOV-2024	CB

Results relate only to the items tested. Results apply to samples as received.

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Time Markers

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6321201	Ex1-FS3BR2	Soil	13-NOV-2024	13-NOV-2024

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
o-Xylene	15-NOV-2024	15-NOV-2024	CB
Xylenes (Total)	15-NOV-2024	15-NOV-2024	SYS
F1 (C6 to C10)	15-NOV-2024	15-NOV-2024	CB
F1 (C6 to C10) minus BTEX	15-NOV-2024	15-NOV-2024	SYS
Toluene-d8	15-NOV-2024	15-NOV-2024	CB
F2 (C10 to C16)	14-NOV-2024	14-NOV-2024	CA
F3 (C16 to C34)	14-NOV-2024	14-NOV-2024	CA
F4 (C34 to C50)	14-NOV-2024	14-NOV-2024	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	14-NOV-2024	14-NOV-2024	IW
Terphenyl	14-NOV-2024	14-NOV-2024	CA

Results relate only to the items tested. Results apply to samples as received.

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

Results relate only to the items tested. Results apply to samples as received.

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220741

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Results relate only to the items tested. Results apply to samples as received.

Miss: ①4-3, 4-5, 4-2 ②3-1, 3-8, 4-0

AGAT Laboratories

RUSH!

Have feedback? Scan here for a quick survey!

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 24222074 1

Cooler Quantity: one - no ice packs
Arrival Temperatures: 21.9 | 22.0 | 22.1
Depot Temperatures: | |
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: repacked into 2.

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04 — Table 3 (Indicate One) — ☐ Ind/Com ☑ Res/Park ☐ Agriculture — Soil Texture (Check One) ☐ Coarse ☑ Fine
☐ Regulation 406 — Table ___ (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture
☐ Regulation 558
☐ CCME
☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other — Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: 24991 012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:
Contact:
Address:
Email:

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☑CrVI, ☑Hg, ☑HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs TCLP:	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX2-FS30	13/11/24	AM/PM	3	PS			6		6									
2. EX2-FS31		AM/PM	3	PS			6		6									
3. EX2-FS32		AM/PM	3	S			6		6									
4. EX2-FS33		AM/PM	3	S			6		6									
5. EX2-FS34	P	P AM/PM	3	S			6		6									
6. EX2-NWWLS30		AM/PM	1	S			6											
7. EX2-NWWLS31		AM/PM	3	S			6		6									
8. EX2-NWLS32		AM/PM	1	S			6											
9. EX2-NWLS33		AM/PM	3	S			6		6									
10. EX2-NWLS34	13/11/24	AM/PM	1	S			6											
11. DUP32		AM/PM	3	S			6		6									

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
JMccann/AMcDonald	13/11/24	3:00	[illegible]	11/13/24	1805
C to Dino	11/13/24	15h30		Nov 14	9:10 AM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 2

Nº: T - 157310

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Document ID: DIV-78-1611.023

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Date Issued: Jan 18, 2024

AGAT Laboratories

RUSH

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Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email:
2. Email:

Project Information:

Project: 2679910.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 *Indicate One*
☐ Ind/Com ☑ Res/Park ☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse ☑ Fine

☐ Regulation 406
Table ___ *Indicate One*
☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 2422207 41
Cooler Quantity: one - no ice/pack
Arrival Temperatures: 21.9 | 22.0 | 22.1
Depot Temperatures: | |
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: replaced into 2.

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐CrVI, ☐Hg, ☐HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX2 - NWLS35	13/11/24	AM PM	3	S				b	b									
2. EX2 - NWLS36		AM PM	3	S				b	b									
3. EX2 - NWLS37		AM PM	3	S				b	b									
4. EX2 - NWLS38		AM PM	3	S				b	b									
5. EX2 - NWLS39		AM PM	3	S				b	b									
6. EX2 - NWLS40		P AM PM	3	S				b	b									
7. EX2 - NWLS41		P AM PM	3	S				b	b									
8. EX2 - NWLS42		P AM PM	3	S				b	b									
9. EX2 - NWLS43		P AM PM	3	S				b	b									
10. DUP33		P AM PM	3	S				b	b									
11. EX1 - FS3BR2	13/11/24	P AM PM	3	S														

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
J. McCann	13/11/24	3:00	C. Griffith	11/13/24	15h05
C. Griffith to pick up	11/13/24	15h30		Nov 14	9:10
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 2

N°: T - 157311

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Document ID: DM-78-1511.023

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Date Issued: Jan 16, 2024

AGAT Laboratories

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http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z220750
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Nov 14, 2024
PAGES (INCLUDING COVER): 6
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
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- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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CANADA L4Z 1Y2
TEL (905)712-5100
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24Z220750

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-13

DATE REPORTED: 2024-11-14

		SAMPLE DESCRIPTION:		Ex2-GSPipe
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2024-11-13
Parameter	**Unit**	**G / S**	**RDL**	**6321223**
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	59
F1 (C6 to C10) minus BTEX	µg/g	65	5	59
F2 (C10 to C16)	µg/g	150	10	82
F3 (C16 to C34)	µg/g	1300	50	954
F4 (C34 to C50)	µg/g	5600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA
Moisture Content	%		0.1	18.7
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	60-140		85
Terphenyl	%	60-140		85

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 24Z220750

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-13 **DATE REPORTED: 2024-11-14**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6321223 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220750

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Nov 14, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6315985		<0.02	<0.02	NA	< 0.02	115%	60%	140%	81%	60%	140%	113%	60%	140%
Toluene	6315985		<0.05	<0.05	NA	< 0.05	88%	60%	140%	72%	60%	140%	112%	60%	140%
Ethylbenzene	6315985		<0.05	<0.05	NA	< 0.05	112%	60%	140%	62%	60%	140%	106%	60%	140%
m & p-Xylene	6315985		<0.05	<0.05	NA	< 0.05	122%	60%	140%	106%	60%	140%	96%	60%	140%
o-Xylene	6315985		<0.05	<0.05	NA	< 0.05	108%	60%	140%	99%	60%	140%	84%	60%	140%
F1 (C6 to C10)	6315985		<5	<5	NA	< 5	86%	60%	140%	85%	60%	140%	94%	60%	140%
F2 (C10 to C16)	6300159		< 10	< 10	NA	< 10	98%	60%	140%	110%	60%	140%	122%	60%	140%
F3 (C16 to C34)	6300159		99	150	NA	< 50	108%	60%	140%	129%	60%	140%	126%	60%	140%
F4 (C34 to C50)	6300159		< 50	< 50	NA	< 50	76%	60%	140%	86%	60%	140%	114%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z220750

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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AGAT Laboratories

RUSH

Have feedback? Scan here for a quick survey!

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 247191.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☑ Fine

☐ Regulation 406
Table ___ (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24222075-0
Cooler Quantity: one - no ice/each
Arrival Temperatures: 21.9 | 22.0 | 22.1
~~Depot~~ Temperatures: 4.3 | 4.5 | 4.2
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: repacked into 2

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ BiaP ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX2-GS Pipe	13/11/24	P AM PM	2	S	CHROMATOGRAM also THIS SAMPLE IS SUPER POTENT				X									X
2.		AM PM																
3.		AM PM																
4.		AM PM																
5.		AM PM																
6.		AM PM																
7.		AM PM																
8.		AM PM																
9.		AM PM																
10.		AM PM																
11.		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
J.McCann/JMcC	13/11/24	3:00	C. Chifflet	11/13/24	15h05
C. to Pulo	11/13/24	15h30		Nov 14	9:10m

Page 1 of 1

N°: T - 157312

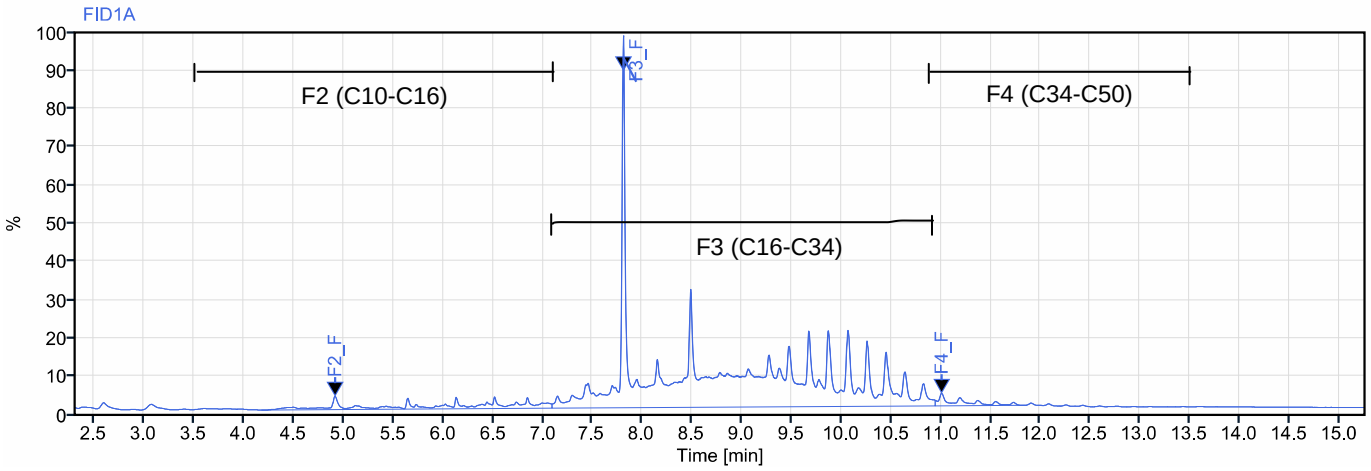
Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Document ID: DIV-78-1911-023

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Single Injection Report

Sequence Name:	FID1-2024-11-14 08-04-43-05-00-F.rslt	**Project Name:**	CCME F2-F4 (Dual)
Sample name:	24Z220750-6321223	**Operator:**	Carol Arumanayagam
Instrument:	FID1	**Injection date:**	2024-11-14 13:00:09-05:00
Inj. volume:	1.000	**Location:**	22
Acq. method:	CCME FID #1.amx	**Type:**	Sample
Processing method:	*24 NOV04 CCME #1 FRONT.pmx	**Sample amount:**	0.00
Manually modified:	Manual Integration		



Signal: FID1A

RT [min]	Type	Width [min]	Area	Height	Area%	Name
4.916	MM m	2.92	702.81	17.97	7.49	F2_F
7.812	MM m	3.85	8471.68	451.41	90.28	F3_F
11.008	MM m	0.92	208.94	16.47	2.23	F4_F
		Sum	**9383.43**			

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z225916
SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead
TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor
DATE REPORTED: Nov 29, 2024
PAGES (INCLUDING COVER): 17
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-27

DATE REPORTED: 2024-11-29

SAMPLE DESCRIPTION:				TP101	TP102	TP103	TP104	TP105	TP106	TP107	TP108
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27
Parameter	Unit	G / S	RDL	6362627	6362628	6362629	6362632	6362634	6362635	6362636	6362637
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	0.9	<0.8	<0.8	1.0
Arsenic	µg/g	18	1	2	2	1	2	5	6	2	2
Barium	µg/g	390	2.0	48.1	65.9	118	95.6	184	240	71.0	92.7
Beryllium	µg/g	5	0.5	<0.5	<0.5	0.5	<0.5	0.6	0.7	<0.5	<0.5
Boron	µg/g	120	5	6	8	13	8	18	10	7	11
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.33	0.33	**4.84**	0.92	**6.26**	**1.60**	**1.95**	**2.81**
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.6	<0.5	0.6
Chromium	µg/g	160	5	16	16	35	26	63	54	16	33
Cobalt	µg/g	22	0.8	5.0	6.0	8.9	7.1	11.3	10.8	5.2	6.2
Copper	µg/g	180	1.0	16.4	21.8	10.6	24.6	21.8	20.0	18.1	17.9
Lead	µg/g	120	1	27	13	18	10	**195**	29	18	54
Molybdenum	µg/g	6.9	0.5	0.6	0.6	<0.5	1.6	0.5	0.7	0.8	0.8
Nickel	µg/g	130	1	12	13	20	17	27	26	13	15
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.51	0.56	1.57	0.94	1.10	1.19	0.96	0.86
Vanadium	µg/g	86	2.0	28.0	24.0	43.6	32.2	55.8	59.9	20.5	24.2
Zinc	µg/g	340	5	40	77	103	45	138	131	35	69
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-11-27

DATE REPORTED: 2024-11-29

		SAMPLE DESCRIPTION:		TP301	DUP 35	TP302	TP303	TP304	TP305
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27
Parameter	Unit	G / S	RDL	6362648	6362650	6362651	6362652	6362653	6362654
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	2	1	3	<1	2	2
Barium	µg/g	390	2.0	121	108	124	39.9	169	213
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
Boron	µg/g	120	5	<5	5	7	<5	<5	5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	1.02	1.26	**1.68**	0.45	0.52	0.64
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	27	28	36	12	26	39
Cobalt	µg/g	22	0.8	9.4	8.7	7.4	4.1	7.7	10.2
Copper	µg/g	180	1.0	8.2	8.3	18.8	10.2	21.6	13.6
Lead	µg/g	120	1	6	5	27	5	29	8
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	0.8	<0.5	0.9	<0.5
Nickel	µg/g	130	1	15	15	18	8	15	21
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	1.17	0.93	1.38	<0.50	0.84	1.36
Vanadium	µg/g	86	2.0	29.7	28.2	35.0	20.2	46.2	36.1
Zinc	µg/g	340	5	66	68	94	26	58	84
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	1.59	0.38	0.30	<0.10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2024-11-27

DATE REPORTED: 2024-11-29

		SAMPLE DESCRIPTION:		TP201	TP202	DUP34	TP203	TP204	TP205	TP206	TP207
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27
Parameter	**Unit**	**G / S**	**RDL**	**6362638**	**6362640**	**6362641**	**6362642**	**6362643**	**6362644**	**6362645**	**6362646**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	0.27	<0.05	<0.05	0.11	0.13	0.10	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	0.62	<0.05	<0.05	0.22	0.14	0.12	<0.05	<0.05
Pyrene	µg/g	78	0.05	0.52	<0.05	<0.05	0.20	0.15	0.12	<0.05	<0.05
Benzo(a)anthracene	µg/g	0.63	0.05	0.20	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7.8	0.05	0.41	<0.05	<0.05	0.11	0.07	0.08	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.49	<0.05	<0.05	0.09	0.07	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	0.28	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	0.21	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.6	17.5	8.6	16.2	15.4	15.2	22.4	4.3
Surrogate	**Unit**	**Acceptable Limits**									
Naphthalene-d8	%	50-140		55	60	70	65	75	70	60	70
Acridine-d9	%	50-140		115	70	70	115	75	80	105	100
Terphenyl-d14	%	50-140		65	90	80	90	80	120	85	65

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2024-11-27

DATE REPORTED: 2024-11-29

		SAMPLE DESCRIPTION:		TP208
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2024-11-27
Parameter	**Unit**	**G / S**	**RDL**	**6362647**
Naphthalene	µg/g	0.75	0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	0.12
Anthracene	µg/g	0.74	0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	0.35
Pyrene	µg/g	78	0.05	0.26
Benzo(a)anthracene	µg/g	0.63	0.05	0.08
Chrysene	µg/g	7.8	0.05	0.15
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.14
Benzo(k)fluoranthene	µg/g	0.78	0.05	0.10
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05
Moisture Content	%		0.1	31.1
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		60
Acridine-d9	%	50-140		80
Terphenyl-d14	%	50-140		75

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6362638-6362647 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-27

DATE REPORTED: 2024-11-29

		SAMPLE DESCRIPTION:		TP103	TP105	TP106	TP108	TP301	DUP 35	TP302	TP303
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27	2024-11-27
Parameter	**Unit**	**G / S**	**RDL**	**6362629**	**6362634**	**6362635**	**6362637**	**6362648**	**6362650**	**6362651**	**6362652**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5	9	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5	9	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10	**206**	43
F3 (C16 to C34)	µg/g	1300	50	<50	349	510	159	<50	<50	**5010**	1080
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50	112	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	25.5	28.8	32.7	18.7	28.8	22.4	15.8	18.8
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	60-140		89	93	104	106	101	88	84	89
Terphenyl	%	60-140		100	85	99	82	75	82	100	130

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-27

DATE REPORTED: 2024-11-29

		SAMPLE DESCRIPTION:		TP304	TP305
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2024-11-27	2024-11-27
Parameter	Unit	G / S	RDL	6362653	6362654
Benzene	µg/g	0.17	0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5
F2 (C10 to C16)	µg/g	150	10	19	<10
F3 (C16 to C34)	µg/g	1300	50	**6420**	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA
Moisture Content	%		0.1	29.6	10.1
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8	% Recovery	60-140		90	121
Terphenyl	%	60-140		110	97

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-27 **DATE REPORTED: 2024-11-29**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6362629-6362654 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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Exceedance Summary

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6362629	TP103	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	4.84
6362634	TP105	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	6.26
6362634	TP105	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Lead	µg/g	120	195
6362635	TP106	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	1.60
6362636	TP107	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	1.95
6362637	TP108	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	2.81
6362651	TP302	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	1.68
6362651	TP302	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F2 (C10 to C16)	µg/g	150	206
6362651	TP302	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F3 (C16 to C34)	µg/g	1300	5010
6362653	TP304	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (Soil)	F3 (C16 to C34)	µg/g	1300	6420

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 24Z225916
PROJECT: 267991.012
ATTENTION TO: Alicia McDonald
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Nov 29, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6363125		1.3	2.2	NA	< 0.8	129%	70%	130%	82%	80%	120%	79%	70%	130%
Arsenic	6363125		5	6	18.2%	< 1	115%	70%	130%	104%	80%	120%	121%	70%	130%
Barium	6363125		49.4	43.6	12.5%	< 2.0	99%	70%	130%	98%	80%	120%	110%	70%	130%
Beryllium	6363125		0.6	0.6	NA	< 0.5	105%	70%	130%	112%	80%	120%	122%	70%	130%
Boron	6363125		14	14	NA	< 5	88%	70%	130%	95%	80%	120%	117%	70%	130%
Boron (Hot Water Soluble)	6363125		0.30	0.32	NA	< 0.10	108%	60%	140%	97%	70%	130%	106%	60%	140%
Cadmium	6363125		<0.5	<0.5	NA	< 0.5	118%	70%	130%	100%	80%	120%	121%	70%	130%
Chromium	6363125		24	22	NA	< 5	101%	70%	130%	91%	80%	120%	92%	70%	130%
Cobalt	6363125		8.5	7.7	9.9%	< 0.8	96%	70%	130%	108%	80%	120%	123%	70%	130%
Copper	6363125		64.2	67.5	5.0%	< 1.0	100%	70%	130%	94%	80%	120%	NA	70%	130%
Lead	6363125		16	16	0.0%	< 1	109%	70%	130%	93%	80%	120%	98%	70%	130%
Molybdenum	6363125		13.5	11.9	12.6%	< 0.5	110%	70%	130%	102%	80%	120%	120%	70%	130%
Nickel	6363125		13	13	0.0%	< 1	103%	70%	130%	104%	80%	120%	113%	70%	130%
Selenium	6363125		<0.8	<0.8	NA	< 0.8	76%	70%	130%	105%	80%	120%	126%	70%	130%
Silver	6363125		<0.5	<0.5	NA	< 0.5	126%	70%	130%	105%	80%	120%	109%	70%	130%
Thallium	6363125		<0.5	<0.5	NA	< 0.5	87%	70%	130%	95%	80%	120%	105%	70%	130%
Uranium	6363125		<0.50	<0.50	NA	< 0.50	92%	70%	130%	84%	80%	120%	97%	70%	130%
Vanadium	6363125		19.4	18.3	5.8%	< 2.0	119%	70%	130%	97%	80%	120%	123%	70%	130%
Zinc	6363125		213	190	11.4%	< 5	119%	70%	130%	111%	80%	120%	NA	70%	130%
Chromium, Hexavalent	6362650	6362650	<0.2	<0.2	NA	< 0.2	93%	70%	130%	89%	80%	120%	72%	70%	130%
Mercury	6363125		<0.10	<0.10	NA	< 0.10	104%	70%	130%	95%	80%	120%	108%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Certified By:



AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Nov 29, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6362638	6362638	<0.05	<0.05	NA	< 0.05	99%	50%	140%	85%	50%	140%	78%	50%	140%
Acenaphthylene	6362638	6362638	<0.05	<0.05	NA	< 0.05	97%	50%	140%	80%	50%	140%	83%	50%	140%
Acenaphthene	6362638	6362638	<0.05	<0.05	NA	< 0.05	92%	50%	140%	85%	50%	140%	95%	50%	140%
Fluorene	6362638	6362638	<0.05	<0.05	NA	< 0.05	92%	50%	140%	73%	50%	140%	93%	50%	140%
Phenanthrene	6362638	6362638	0.27	0.20	NA	< 0.05	93%	50%	140%	75%	50%	140%	84%	50%	140%
Anthracene	6362638	6362638	0.07	0.06	NA	< 0.05	67%	50%	140%	78%	50%	140%	89%	50%	140%
Fluoranthene	6362638	6362638	0.62	0.52	18.7%	< 0.05	100%	50%	140%	80%	50%	140%	96%	50%	140%
Pyrene	6362638	6362638	0.52	0.49	6.0%	< 0.05	97%	50%	140%	88%	50%	140%	99%	50%	140%
Benzo(a)anthracene	6362638	6362638	0.20	0.24	NA	< 0.05	93%	50%	140%	68%	50%	140%	106%	50%	140%
Chrysene	6362638	6362638	0.41	0.54	27.1%	< 0.05	113%	50%	140%	80%	50%	140%	117%	50%	140%
Benzo(b)fluoranthene	6362638	6362638	0.49	0.65	28.0%	< 0.05	75%	50%	140%	78%	50%	140%	85%	50%	140%
Benzo(k)fluoranthene	6362638	6362638	0.28	0.30	7.7%	< 0.05	104%	50%	140%	85%	50%	140%	90%	50%	140%
Benzo(a)pyrene	6362638	6362638	0.21	0.26	NA	< 0.05	82%	50%	140%	93%	50%	140%	114%	50%	140%
Indeno(1,2,3-cd)pyrene	6362638	6362638	0.10	0.11	NA	< 0.05	69%	50%	140%	85%	50%	140%	79%	50%	140%
Dibenz(a,h)anthracene	6362638	6362638	<0.05	<0.05	NA	< 0.05	74%	50%	140%	85%	50%	140%	70%	50%	140%
Benzo(g,h,i)perylene	6362638	6362638	0.19	0.20	NA	< 0.05	76%	50%	140%	80%	50%	140%	101%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6337485		<0.02	<0.02	NA	< 0.02	113%	60%	140%	112%	60%	140%	99%	60%	140%
Toluene	6337485		<0.05	<0.05	NA	< 0.05	69%	60%	140%	71%	60%	140%	73%	60%	140%
Ethylbenzene	6337485		<0.05	<0.05	NA	< 0.05	70%	60%	140%	61%	60%	140%	66%	60%	140%
m & p-Xylene	6337485		<0.05	<0.05	NA	< 0.05	81%	60%	140%	93%	60%	140%	131%	60%	140%
o-Xylene	6337485		<0.05	<0.05	NA	< 0.05	62%	60%	140%	68%	60%	140%	66%	60%	140%
F1 (C6 to C10)	6337485		<5	<5	NA	< 5	101%	60%	140%	97%	60%	140%	95%	60%	140%
F2 (C10 to C16)	6347039		< 10	< 10	NA	< 10	93%	60%	140%	123%	60%	140%	117%	60%	140%
F3 (C16 to C34)	6347039		< 50	< 50	NA	< 50	107%	60%	140%	99%	60%	140%	97%	60%	140%
F4 (C34 to C50)	6347039		< 50	< 50	NA	< 50	86%	60%	140%	90%	60%	140%	67%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
F2 (C10 to C16)	6358268		< 10	< 10	NA	< 10	119%	60%	140%	83%	60%	140%	94%	60%	140%
F3 (C16 to C34)	6358268		< 50	< 50	NA	< 50	119%	60%	140%	103%	60%	140%	120%	60%	140%
F4 (C34 to C50)	6358268		< 50	< 50	NA	< 50	72%	60%	140%	74%	60%	140%	99%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By:

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

Results relate only to the items tested. Results apply to samples as received.

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Results relate only to the items tested. Results apply to samples as received.

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TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z225916

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 24225916

Cooler Quantity: 1 L

Arrival Temperatures: 6.3 15.2 5.9

Depot Temperatures:

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes:

Report Information:

Company: Pinchin

Contact: Allan McDonald

Address:

Phone: Fax:

Reports to be sent to:

1. Email: amcdonald@pinchin.com

2. Email: jmccann@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☑ Fine

☐ Regulation 406
Table (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
(Indicate One)

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: 267191.012

Site Location:

Sampled By:

AGAT Quote #: PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:

Contact:

Address:

Email:

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TP101	27/11/24	AM PM	1	S				X										
2. TP102		AM PM	1	S				X										
3. TP103		AM PM	3	S				X	X									
4. TP104		AM PM	1	S				X										
5. TP105		AM PM	3	S				X	X									
6. TP106		AM PM	3	S				X	X									
7. TP107		AM PM	1	S				X										
8. TP108		AM PM	3	S				X	X									
9. TP201		AM PM	1	S							X							
10. TP202		AM PM	1	S							X							
11. DUP34		AM PM	1	S							X							

Samples Relinquished By (Print Name and Sign): J. McCann	Date 27/11/24	Time	Samples Received By (Print Name and Sign): C. Griffiths	Date 11/27/24 Nov 28	Time 16h50 9:15
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 3

N°: T-157297

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Document ID: DW-78-1513-020

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Date Issued: Jan 18, 2024

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Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only
Work Order #: 24222591 6
Cooler Quantity:
Arrival Temperatures: 5 | 5 | 5 | 11
Depot Temperatures:
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes:

Report Information:
Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email:
2. Email:

Project Information:
Project: 267491012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:
(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☑ Fine

☐ Regulation 406
Table (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Turnaround Time (TAT) Required:
Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CSR

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐CrVI, ☐Hg, ☐HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TP 203	27/11/24	AM/PM	1	S							X							
2. TP 204		AM/PM	1	S							X							
3. TP 205		AM/PM	1	S							X							
4. TP 206		AM/PM	1	S							X							
5. TP 207		AM/PM	1	S							X							
6. TP 208		AM/PM	1	S							X							
7. TP 301		AM/PM	3	S	300's could be potent			X	X									X
8. DUP 35		AM/PM	3	S				X	X									X
9. TP 302		AM/PM	3	S				X	X									X
10. TP 303		AM/PM	3	S				X	X									X
11. TP 304		AM/PM	3	S				X	X									X

	Date	Time		Date	Time
Samples Relinquished By (Print Name and Sign): Jmc Cann	27/11/24		Samples Received By (Print Name and Sign):	11/27/24	16:50
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 3

N°: T - 157296

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RUSH

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Mississauga, Ontario L4Z 1Y2
PH: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email:
2. Email:

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☑ Fine

☐ Regulation 406
Table ____ (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a Record of Site Condition (RSC)? ☑ Yes ☐ No

Report Guideline on Certificate of Analysis ☑ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24222916
Cooler Quantity:
Arrival Temperatures: step 1
Depot Temperatures:
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ~~CrVI~~, ~~Hg~~, ~~CrVI~~/HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TP305	27/11/24	P AM PM	3	S				X	X									
2.		AM PM																
3.		AM PM																
4.		AM PM																
5.		AM PM																
6.		AM PM																
7.		AM PM																
8.		AM PM																
9.		AM PM																
10.		AM PM																
11.		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
J McCann/JMcCann	27/11/24		C Griffiths	11/27/24	16h50
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
				Nov 28	9:15
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

N°: T-157299

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Document ID: DOC-TB-1511.023
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Date Issued: Jan 16, 2024

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 24Z228906
SOIL ANALYSIS REVIEWED BY: Chuandi Zhang, Inorganic Supervisor
TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor
DATE REPORTED: Dec 06, 2024
PAGES (INCLUDING COVER): 14
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
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- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-12-05

DATE REPORTED: 2024-12-06

		SAMPLE DESCRIPTION:		TP109	TP110	TP111	TP112	TP113	TP114	TP115	TP116
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05
Parameter	Unit	G / S	RDL	6384126	6384128	6384129	6384130	6384131	6384132	6384133	6384134
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	1	2	1	2	2	3	<1	1
Barium	µg/g	390	2.0	72.4	67.2	95.1	78.0	55.2	74.7	30.3	49.1
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	11	<5	6	5	6	<5	6
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.28	**4.94**	0.37	0.99	0.96	0.57	0.20	1.02
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	27	24	28	18	16	18	16	18
Cobalt	µg/g	22	0.8	5.6	5.1	7.3	5.2	4.4	5.1	4.2	4.8
Copper	µg/g	180	1.0	18.7	8.7	16.6	16.7	32.7	35.8	4.3	12.2
Lead	µg/g	120	1	4	17	5	7	14	11	3	6
Molybdenum	µg/g	6.9	0.5	<0.5	0.5	<0.5	1.1	0.7	1.1	<0.5	0.5
Nickel	µg/g	130	1	16	14	19	13	13	16	10	12
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.51	0.63	0.69	0.89	0.99	1.07	<0.50	0.90
Vanadium	µg/g	86	2.0	29.6	22.3	29.4	24.0	18.7	23.0	16.3	26.0
Zinc	µg/g	340	5	35	54	36	32	48	37	28	30
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	<0.10	<0.10

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-12-05

DATE REPORTED: 2024-12-06

SAMPLE DESCRIPTION:				TP117	TP118	DUP38	TP119	TP120	TP306	TP307	TP308
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05
Parameter	Unit	G / S	RDL	6384135	6384136	6384137	6384138	6384139	6384140	6384143	6384144
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	<1	2	1	1	2	1	2	5
Barium	µg/g	390	2.0	27.9	51.6	44.3	43.3	75.7	124	58.1	77.7
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	5	<5	5	7	6	7
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.41	0.57	1.38	1.50	0.27	0.38	0.57	0.13
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	16	27	23	21	15	39	17	16
Cobalt	µg/g	22	0.8	4.4	5.0	4.0	4.0	4.8	8.2	5.0	6.5
Copper	µg/g	180	1.0	3.3	7.7	4.2	4.2	12.2	13.1	22.2	13.9
Lead	µg/g	120	1	3	9	5	5	4	7	13	15
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5	2.0
Nickel	µg/g	130	1	11	14	12	11	10	25	12	13
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	<0.50	0.69	0.58	0.54	0.70	0.58	0.66	0.54
Vanadium	µg/g	86	2.0	16.0	25.3	19.9	19.0	21.9	39.9	22.2	26.9
Zinc	µg/g	340	5	36	43	37	34	25	51	41	42
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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Certificate of Analysis

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2024-12-05

DATE REPORTED: 2024-12-06

		SAMPLE DESCRIPTION:		TP309	TP310	DUP39
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-12-05	2024-12-05	2024-12-05
Parameter	Unit	G / S	RDL	6384145	6384146	6384147
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	1	<1	3
Barium	µg/g	390	2.0	37.9	15.1	125
Beryllium	µg/g	5	0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	6
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.25	<0.10	0.25
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	18	7	19
Cobalt	µg/g	22	0.8	4.4	3.0	6.7
Copper	µg/g	180	1.0	5.4	8.7	28.1
Lead	µg/g	120	1	3	2	25
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	1.0
Nickel	µg/g	130	1	11	6	15
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	<0.50	<0.50	0.56
Vanadium	µg/g	86	2.0	21.1	13.8	26.6
Zinc	µg/g	340	5	34	11	54
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2
Mercury	µg/g	1.8	0.10	<0.10	<0.10	0.11

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-12-05 **DATE REPORTED: 2024-12-06**

		SAMPLE DESCRIPTION:		TP306	TP307	TP308	TP309	TP310	DUP39
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05	2024-12-05
Parameter	**Unit**	**G / S**	**RDL**	**6384140**	**6384143**	**6384144**	**6384145**	**6384146**	**6384147**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	20.8	21.0	11.7	11.5	17.9	9.8
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	60-140		86	104	77	74	72	72
Terphenyl	%	60-140		91	87	98	88	76	97

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

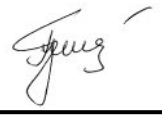
DATE RECEIVED: 2024-12-05 **DATE REPORTED: 2024-12-06**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6384140-6384147 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Exceedance Summary

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6384128	TP110	ON T3 S RPI MFT	O. Reg. 153(511) - All Metals (Soil)	Boron (Hot Water Soluble)	µg/g	1.5	4.94

Results relate only to the items tested. Results apply to samples as received.

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Dec 06, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6384126	6384126	<0.8	<0.8	NA	< 0.8	129%	70%	130%	79%	80%	120%	78%	70%	130%
Arsenic	6384126	6384126	1	<1	NA	< 1	118%	70%	130%	104%	80%	120%	123%	70%	130%
Barium	6384126	6384126	72.4	65.3	10.3%	< 2.0	121%	70%	130%	102%	80%	120%	117%	70%	130%
Beryllium	6384126	6384126	<0.5	<0.5	NA	< 0.5	107%	70%	130%	116%	80%	120%	117%	70%	130%
Boron	6384126	6384126	<5	<5	NA	< 5	97%	70%	130%	102%	80%	120%	129%	70%	130%
Boron (Hot Water Soluble)	6384126	6384126	0.28	0.27	NA	< 0.10	98%	60%	140%	94%	70%	130%	99%	60%	140%
Cadmium	6384126	6384126	<0.5	<0.5	NA	< 0.5	99%	70%	130%	102%	80%	120%	126%	70%	130%
Chromium	6384126	6384126	27	26	3.8%	< 5	110%	70%	130%	92%	80%	120%	NA	70%	130%
Cobalt	6384126	6384126	5.6	5.5	1.8%	< 0.8	94%	70%	130%	88%	80%	120%	126%	70%	130%
Copper	6384126	6384126	18.7	17.3	7.8%	< 1.0	115%	70%	130%	97%	80%	120%	113%	70%	130%
Lead	6384126	6384126	4	4	NA	< 1	119%	70%	130%	103%	80%	120%	117%	70%	130%
Molybdenum	6384126	6384126	<0.5	<0.5	NA	< 0.5	110%	70%	130%	100%	80%	120%	120%	70%	130%
Nickel	6384126	6384126	16	16	0.0%	< 1	112%	70%	130%	108%	80%	120%	123%	70%	130%
Selenium	6384126	6384126	<0.8	<0.8	NA	< 0.8	101%	70%	130%	98%	80%	120%	123%	70%	130%
Silver	6384126	6384126	<0.5	<0.5	NA	< 0.5	98%	70%	130%	98%	80%	120%	110%	70%	130%
Thallium	6384126	6384126	<0.5	<0.5	NA	< 0.5	98%	70%	130%	113%	80%	120%	127%	70%	130%
Uranium	6384126	6384126	0.51	<0.50	NA	< 0.50	97%	70%	130%	93%	80%	120%	107%	70%	130%
Vanadium	6384126	6384126	29.6	27.8	6.3%	< 2.0	125%	70%	130%	80%	80%	120%	127%	70%	130%
Zinc	6384126	6384126	35	35	0.0%	< 5	129%	70%	130%	101%	80%	120%	121%	70%	130%
Chromium, Hexavalent	6384147	6384147	<0.2	<0.2	NA	< 0.2	95%	70%	130%	91%	80%	120%	71%	70%	130%
Mercury	6384126	6384126	<0.10	<0.10	NA	< 0.10	102%	70%	130%	96%	80%	120%	109%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.
Matrix spike: Spike level < native concentration. Matrix spike acceptance limits do not apply.
For a multi-element scan for lab control standards and matrix spikes, up to 10% of analytes may exceed the quoted limits by up to 10% absolute and it is considered acceptable.

Certified By:

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Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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http://www.agatlabs.com

Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Dec 06, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6384147	6384147	<0.02	<0.02	NA	< 0.02	103%	60%	140%	103%	60%	140%	99%	60%	140%
Toluene	6384147	6384147	<0.05	<0.05	NA	< 0.05	92%	60%	140%	90%	60%	140%	91%	60%	140%
Ethylbenzene	6384147	6384147	<0.05	<0.05	NA	< 0.05	110%	60%	140%	107%	60%	140%	110%	60%	140%
m & p-Xylene	6384147	6384147	<0.05	<0.05	NA	< 0.05	109%	60%	140%	105%	60%	140%	108%	60%	140%
o-Xylene	6384147	6384147	<0.05	<0.05	NA	< 0.05	109%	60%	140%	102%	60%	140%	106%	60%	140%
F1 (C6 to C10)	6384147	6384147	<5	<5	NA	< 5	114%	60%	140%	119%	60%	140%	96%	60%	140%
F2 (C10 to C16)	6370857		< 10	< 10	NA	< 10	115%	60%	140%	105%	60%	140%	119%	60%	140%
F3 (C16 to C34)	6370857		< 50	< 50	NA	< 50	112%	60%	140%	123%	60%	140%	129%	60%	140%
F4 (C34 to C50)	6370857		< 50	< 50	NA	< 50	92%	60%	140%	84%	60%	140%	129%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

RPT Date: Dec 06, 2024

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)										
Antimony	6384126	129%	70%	130%	79%	80%	120%	78%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.
Matrix spike: Spike level < native concentration. Matrix spike acceptance limits do not apply.
For a multi-element scan for lab control standards and matrix spikes, up to 10% of analytes may exceed the quoted limits by up to 10% absolute and it is considered acceptable.

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Results relate only to the items tested. Results apply to samples as received.

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http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24Z228906

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 26-7991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

RUSH!

☑ Regulation 153/04
Table 3 *Indicate One*
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☑ Fine

☐ Regulation 406
Table *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24722890 6
Cooler Quantity: one ice
Branch
Arrival Temperatures: 5.5 | 5.6 | 5.3
Miss. Rd: Depot Temperatures: 2, 4, 5, 7, 4, 1, 3.2, 3.6, 4.0
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: packed into two coolers

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals (CrVI, Hg, HWSB)	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TP109	5/12/24	A AM PM	1	S				6										
2. TP110		AM PM	1	S				6										
3. TP111		AM PM	1	S				6										
4. TP112		AM PM	1	S				P										
5. TP113		AM PM	1	S				P										
6. TP114		AM PM	1	S				6										
7. TP115		AM PM	1	S				P										
8. TP116		AM PM	1	S				6										
9. TP117		AM PM	1	S				6										
10. TP118		AM PM	1	S				6										
11. DUP38	5/12/24	A AM PM	1	S				6										

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
JMcCann AMcDonald	5/12/24	2:30	CBertheletBlue	2024/12/05	14h40
CBertheletBlue	2024/12/05	15h20		Dec 6	8:25

Page 1 of 2
N°: T - 157300

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Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact:
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email:

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table 3 *Indicate One*
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☑ Fine

☐ Regulation 406
Table *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☑ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 24722890G
Cooler Quantity: one - ice
Arrival Temperatures: Branch 5.5 5.6 5.3
Depot Temperatures: unless see p 9
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: packed into 2 coolers

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ~~Cr VI, Hg~~, HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs TCLP:	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. TP119	5/12/24	A AM PM	1	S				☑										
2. TP120		A AM PM	1	S				☑										
3. TP306		P AM PM	3	S				☑	☑									
4. TP307		P AM PM	3	S				☑	☑									
5. TP308		P AM PM	3	S				☑	☑									
6. TP309		P AM PM	3	S				☑	☑									
7. TP310		P AM PM	3	S				☑	☑									
8. DUP39	5/12/24	P AM PM	3	S				☑	☑									
9.		AM PM																
10.		AM PM																
11.		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
JMcCann JMcCann	5/12/24	2300	[illegible]	2024/12/05	1440
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
[illegible]	2024/12/05	1500	[illegible]	Dec 6	8:25
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 2

N°: T-157301

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Document ID: DW-78-1511-023
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Date Issued: Jan 18, 2024

AGAT Laboratories

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CANADA L4Z 1Y2
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http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 25Z252697
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Feb 28, 2025
PAGES (INCLUDING COVER): 6
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 25Z252697

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2025-02-26

DATE REPORTED: 2025-02-28

		SAMPLE DESCRIPTION:		EX2-FS35
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-02-26
Parameter	**Unit**	**G / S**	**RDL**	**6551905**
Naphthalene	µg/g		0.05	<0.05
Acenaphthylene	µg/g		0.05	<0.05
Acenaphthene	µg/g		0.05	<0.05
Fluorene	µg/g		0.05	<0.05
Phenanthrene	µg/g		0.05	0.05
Anthracene	µg/g		0.05	<0.05
Fluoranthene	µg/g		0.05	<0.05
Pyrene	µg/g		0.05	<0.05
Benzo(a)anthracene	µg/g		0.05	<0.05
Chrysene	µg/g		0.05	<0.05
Benzo(b)fluoranthene	µg/g		0.05	<0.05
Benzo(k)fluoranthene	µg/g		0.05	<0.05
Benzo(a)pyrene	µg/g		0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g		0.05	<0.05
Dibenz(a,h)anthracene	µg/g		0.05	<0.05
Benzo(g,h,i)perylene	µg/g		0.05	<0.05
2-and 1-methyl Naphthalene	µg/g		0.05	<0.05
Moisture Content	%		0.1	5.7
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		69
Acridine-d9	%	50-140		77
Terphenyl-d14	%	50-140		74

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6551905 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 25Z252697

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Feb 28, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6544627		<0.05	<0.05	NA	< 0.05	103%	50%	140%	93%	50%	140%	98%	50%	140%
Acenaphthylene	6544627		<0.05	<0.05	NA	< 0.05	104%	50%	140%	73%	50%	140%	75%	50%	140%
Acenaphthene	6544627		<0.05	<0.05	NA	< 0.05	107%	50%	140%	73%	50%	140%	105%	50%	140%
Fluorene	6544627		<0.05	<0.05	NA	< 0.05	109%	50%	140%	75%	50%	140%	93%	50%	140%
Phenanthrene	6544627		<0.05	<0.05	NA	< 0.05	110%	50%	140%	103%	50%	140%	90%	50%	140%
Anthracene	6544627		<0.05	<0.05	NA	< 0.05	105%	50%	140%	105%	50%	140%	95%	50%	140%
Fluoranthene	6544627		<0.05	<0.05	NA	< 0.05	110%	50%	140%	110%	50%	140%	83%	50%	140%
Pyrene	6544627		<0.05	<0.05	NA	< 0.05	105%	50%	140%	88%	50%	140%	80%	50%	140%
Benzo(a)anthracene	6544627		<0.05	<0.05	NA	< 0.05	81%	50%	140%	73%	50%	140%	93%	50%	140%
Chrysene	6544627		<0.05	<0.05	NA	< 0.05	107%	50%	140%	90%	50%	140%	78%	50%	140%
Benzo(b)fluoranthene	6544627		<0.05	<0.05	NA	< 0.05	85%	50%	140%	100%	50%	140%	88%	50%	140%
Benzo(k)fluoranthene	6544627		<0.05	<0.05	NA	< 0.05	117%	50%	140%	105%	50%	140%	78%	50%	140%
Benzo(a)pyrene	6544627		<0.05	<0.05	NA	< 0.05	91%	50%	140%	88%	50%	140%	90%	50%	140%
Indeno(1,2,3-cd)pyrene	6544627		<0.05	<0.05	NA	< 0.05	76%	50%	140%	83%	50%	140%	93%	50%	140%
Dibenz(a,h)anthracene	6544627		<0.05	<0.05	NA	< 0.05	94%	50%	140%	108%	50%	140%	78%	50%	140%
Benzo(g,h,i)perylene	6544627		<0.05	<0.05	NA	< 0.05	100%	50%	140%	75%	50%	140%	95%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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Time Markers

AGAT WORK ORDER: 25Z252697

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6551905	EX2-FS35	Soil	26-FEB-2025	26-FEB-2025

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	28-FEB-2025	28-FEB-2025	RK
Acenaphthylene	28-FEB-2025	28-FEB-2025	RK
Acenaphthene	28-FEB-2025	28-FEB-2025	RK
Fluorene	28-FEB-2025	28-FEB-2025	RK
Phenanthrene	28-FEB-2025	28-FEB-2025	RK
Anthracene	28-FEB-2025	28-FEB-2025	RK
Fluoranthene	28-FEB-2025	28-FEB-2025	RK
Pyrene	28-FEB-2025	28-FEB-2025	RK
Benzo(a)anthracene	28-FEB-2025	28-FEB-2025	RK
Chrysene	28-FEB-2025	28-FEB-2025	RK
Benzo(b)fluoranthene	28-FEB-2025	28-FEB-2025	RK
Benzo(k)fluoranthene	28-FEB-2025	28-FEB-2025	RK
Benzo(a)pyrene	28-FEB-2025	28-FEB-2025	RK
Indeno(1,2,3-cd)pyrene	28-FEB-2025	28-FEB-2025	RK
Dibenz(a,h)anthracene	28-FEB-2025	28-FEB-2025	RK
Benzo(g,h,i)perylene	28-FEB-2025	28-FEB-2025	RK
2-and 1-methyl Naphthalene	28-FEB-2025	28-FEB-2025	SYS
Naphthalene-d8	28-FEB-2025	28-FEB-2025	RK
Acridine-d9	28-FEB-2025	28-FEB-2025	RK
Terphenyl-d14	28-FEB-2025	28-FEB-2025	RK
Moisture Content	28-FEB-2025	28-FEB-2025	MM

Results relate only to the items tested. Results apply to samples as received.

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Method Summary

CLIENT NAME: PINCHIN LTD. **AGAT WORK ORDER: 25Z252697**

PROJECT: 267991.012 **ATTENTION TO: Alicia McDonald**

SAMPLING SITE: **SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE

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AGAT Laboratories

Have feedback? Scan here for a quick survey!

RUSH!

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Regulation 406
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a Record of Site Condition (RSC)? ☒ Yes ☐ No

Report Guideline on Certificate of Analysis ☒ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 25725269 7
Cooler Quantity: N/A - no ice/packs
Arrival Temperatures: 10.6 | 10.3 | 10.9
Depot Temperatures: LT 3.6 | |
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: ICE

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EXA-FS-2535 JM.	26/2/25	9 AM/PM	1	S							X								
2.		AM/PM																	
3.		AM/PM																	
4.		AM/PM																	
5.		AM/PM																	
6.		AM/PM																	
7.		AM/PM																	
8.		AM/PM																	
9.		AM/PM																	
10.		AM/PM																	
11.		AM/PM																	

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J. McCann JMcCann	26/2/25	445p.	C. Cunliffe	02/26/25	16h43
CC to Anna	02/27/25	1530	M. GRASIC	Feb 28	8:45

Page 1 of 1

N°: T - 157356

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

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AGAT Laboratories

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CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Alicia McDonald
PROJECT: 267991.012
AGAT WORK ORDER: 25Z252701
SOIL ANALYSIS REVIEWED BY: Chuandi Zhang, Inorganic Supervisor
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Feb 28, 2025
PAGES (INCLUDING COVER): 11
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.*
- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - All Metals (Soil)

DATE RECEIVED: 2025-02-27

DATE REPORTED: 2025-02-28

		SAMPLE DESCRIPTION:		EX2-NW4534-R1
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-02-27
Parameter	Unit	G / S	RDL	6551909
Antimony	µg/g		0.8	<0.8
Arsenic	µg/g		1	<1
Barium	µg/g		2.0	33.4
Beryllium	µg/g		0.5	<0.5
Boron	µg/g		5	5
Boron (Hot Water Soluble)	µg/g		0.10	0.12
Cadmium	µg/g		0.5	<0.5
Chromium	µg/g		5	9
Cobalt	µg/g		0.8	4.2
Copper	µg/g		1.0	10.0
Lead	µg/g		1	3
Molybdenum	µg/g		0.5	0.5
Nickel	µg/g		1	7
Selenium	µg/g		0.8	<0.8
Silver	µg/g		0.5	<0.5
Thallium	µg/g		0.5	<0.5
Uranium	µg/g		0.50	0.88
Vanadium	µg/g		2.0	17.6
Zinc	µg/g		5	15
Chromium, Hexavalent	µg/g		0.2	<0.2
Mercury	µg/g		0.10	<0.10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2025-02-27

DATE REPORTED: 2025-02-28

		SAMPLE DESCRIPTION:		EX2-FS36	EX2-FS37
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2025-02-27	2025-02-27
Parameter	**Unit**	**G / S**	**RDL**	**6551906**	**6551908**
Benzene	µg/g		0.02	<0.02	<0.02
Toluene	µg/g		0.05	<0.05	<0.05
Ethylbenzene	µg/g		0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05
Xylenes (Total)	µg/g		0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g		5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	<50
F4 (C34 to C50)	µg/g		50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA
Moisture Content	%		0.1	16.7	17.6
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8	% Recovery	60-140		110	100
Terphenyl	%	60-140		87	86

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2025-02-27

DATE REPORTED: 2025-02-28

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6551906-6551908 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Feb 28, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - All Metals (Soil)															
Antimony	6548171		<0.8	<0.8	NA	< 0.8	103%	70%	130%	101%	80%	120%	102%	70%	130%
Arsenic	6548171		2	3	NA	< 1	108%	70%	130%	85%	80%	120%	85%	70%	130%
Barium	6548171		15.6	17.2	9.8%	< 2.0	97%	70%	130%	92%	80%	120%	91%	70%	130%
Beryllium	6548171		<0.5	<0.5	NA	< 0.5	99%	70%	130%	94%	80%	120%	82%	70%	130%
Boron	6548171		9	6	NA	< 5	81%	70%	130%	87%	80%	120%	74%	70%	130%
Boron (Hot Water Soluble)	6548470		0.16	0.16	NA	< 0.10	90%	60%	140%	93%	70%	130%	94%	60%	140%
Cadmium	6548171		<0.5	<0.5	NA	< 0.5	86%	70%	130%	104%	80%	120%	99%	70%	130%
Chromium	6548171		7	8	NA	< 5	107%	70%	130%	94%	80%	120%	74%	70%	130%
Cobalt	6548171		2.3	2.3	NA	< 0.8	94%	70%	130%	87%	80%	120%	84%	70%	130%
Copper	6548171		6.0	5.7	5.1%	< 1.0	95%	70%	130%	89%	80%	120%	78%	70%	130%
Lead	6548171		19	19	0.0%	< 1	102%	70%	130%	86%	80%	120%	92%	70%	130%
Molybdenum	6548171		<0.5	<0.5	NA	< 0.5	104%	70%	130%	100%	80%	120%	101%	70%	130%
Nickel	6548171		4	4	NA	< 1	94%	70%	130%	90%	80%	120%	84%	70%	130%
Selenium	6548171		<0.8	<0.8	NA	< 0.8	107%	70%	130%	100%	80%	120%	91%	70%	130%
Silver	6548171		<0.5	<0.5	NA	< 0.5	108%	70%	130%	106%	80%	120%	98%	70%	130%
Thallium	6548171		<0.5	<0.5	NA	< 0.5	111%	70%	130%	101%	80%	120%	94%	70%	130%
Uranium	6548171		<0.50	<0.50	NA	< 0.50	96%	70%	130%	85%	80%	120%	76%	70%	130%
Vanadium	6548171		10.7	10.5	1.9%	< 2.0	106%	70%	130%	85%	80%	120%	81%	70%	130%
Zinc	6548171		113	103	9.3%	< 5	98%	70%	130%	102%	80%	120%	100%	70%	130%
Chromium, Hexavalent	6543868		<0.2	<0.2	NA	< 0.2	98%	70%	130%	96%	80%	120%	71%	70%	130%
Mercury	6548171		<0.10	<0.10	NA	< 0.10	106%	70%	130%	101%	80%	120%	94%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:



AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

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AGAT Laboratories

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Feb 28, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6539624		<0.02	<0.02	NA	< 0.02	100%	60%	140%	110%	60%	140%	110%	60%	140%
Toluene	6539624		<0.05	<0.05	NA	< 0.05	104%	60%	140%	111%	60%	140%	119%	60%	140%
Ethylbenzene	6539624		<0.05	<0.05	NA	< 0.05	97%	60%	140%	113%	60%	140%	114%	60%	140%
m & p-Xylene	6539624		<0.05	<0.05	NA	< 0.05	92%	60%	140%	102%	60%	140%	101%	60%	140%
o-Xylene	6539624		<0.05	<0.05	NA	< 0.05	85%	60%	140%	93%	60%	140%	107%	60%	140%
F1 (C6 to C10)	6539624		<5	<5	NA	< 5	118%	60%	140%	83%	60%	140%	92%	60%	140%
F2 (C10 to C16)	6544640		< 10	< 10	NA	< 10	120%	60%	140%	103%	60%	140%	102%	60%	140%
F3 (C16 to C34)	6544640		< 50	< 50	NA	< 50	114%	60%	140%	108%	60%	140%	108%	60%	140%
F4 (C34 to C50)	6544640		< 50	< 50	NA	< 50	69%	60%	140%	81%	60%	140%	96%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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Results relate only to the items tested. Results apply to samples as received.

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Time Markers

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6551906	EX2-FS36	Soil	27-FEB-2025	27-FEB-2025

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	28-FEB-2025	28-FEB-2025	CB
Toluene	28-FEB-2025	28-FEB-2025	CB
Ethylbenzene	28-FEB-2025	28-FEB-2025	CB
m & p-Xylene	28-FEB-2025	28-FEB-2025	CB
o-Xylene	28-FEB-2025	28-FEB-2025	CB
Xylenes (Total)	28-FEB-2025	28-FEB-2025	SYS
F1 (C6 to C10)	28-FEB-2025	28-FEB-2025	CB
F1 (C6 to C10) minus BTEX	28-FEB-2025	28-FEB-2025	SYS
Toluene-d8	28-FEB-2025	28-FEB-2025	CB
F2 (C10 to C16)	28-FEB-2025	28-FEB-2025	CA
F3 (C16 to C34)	28-FEB-2025	28-FEB-2025	CA
F4 (C34 to C50)	28-FEB-2025	28-FEB-2025	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	28-FEB-2025	28-FEB-2025	MM
Terphenyl	28-FEB-2025	28-FEB-2025	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6551908	EX2-FS37	Soil	27-FEB-2025	27-FEB-2025

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	28-FEB-2025	28-FEB-2025	CB
Toluene	28-FEB-2025	28-FEB-2025	CB
Ethylbenzene	28-FEB-2025	28-FEB-2025	CB
m & p-Xylene	28-FEB-2025	28-FEB-2025	CB
o-Xylene	28-FEB-2025	28-FEB-2025	CB
Xylenes (Total)	28-FEB-2025	28-FEB-2025	SYS
F1 (C6 to C10)	28-FEB-2025	28-FEB-2025	CB
F1 (C6 to C10) minus BTEX	28-FEB-2025	28-FEB-2025	SYS
Toluene-d8	28-FEB-2025	28-FEB-2025	CB
F2 (C10 to C16)	28-FEB-2025	28-FEB-2025	CA
F3 (C16 to C34)	28-FEB-2025	28-FEB-2025	CA
F4 (C34 to C50)	28-FEB-2025	28-FEB-2025	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	28-FEB-2025	28-FEB-2025	MM
Terphenyl	28-FEB-2025	28-FEB-2025	CA

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6551909	EX2-NW4534-R1	Soil	27-FEB-2025	27-FEB-2025

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http://www.agatlabs.com

Time Markers

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Alicia McDonald

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
6551909	EX2-NW4534-R1	Soil	27-FEB-2025	27-FEB-2025

O. Reg. 153(511) - All Metals (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	28-FEB-2025	28-FEB-2025	SE
Arsenic	28-FEB-2025	28-FEB-2025	SE
Barium	28-FEB-2025	28-FEB-2025	SE
Beryllium	28-FEB-2025	28-FEB-2025	SE
Boron	28-FEB-2025	28-FEB-2025	SE
Boron (Hot Water Soluble)	28-FEB-2025	28-FEB-2025	ZK
Cadmium	28-FEB-2025	28-FEB-2025	SE
Chromium	28-FEB-2025	28-FEB-2025	SE
Cobalt	28-FEB-2025	28-FEB-2025	SE
Copper	28-FEB-2025	28-FEB-2025	SE
Lead	28-FEB-2025	28-FEB-2025	SE
Molybdenum	28-FEB-2025	28-FEB-2025	SE
Nickel	28-FEB-2025	28-FEB-2025	SE
Selenium	28-FEB-2025	28-FEB-2025	SE
Silver	28-FEB-2025	28-FEB-2025	SE
Thallium	28-FEB-2025	28-FEB-2025	SE
Uranium	28-FEB-2025	28-FEB-2025	SE
Vanadium	28-FEB-2025	28-FEB-2025	SE
Zinc	28-FEB-2025	28-FEB-2025	SE
Chromium, Hexavalent	28-FEB-2025	28-FEB-2025	RC
Mercury	28-FEB-2025	28-FEB-2025	SE

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 25Z252701

PROJECT: 267991.012

ATTENTION TO: Alicia McDonald

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Have feedback? Scan here for a quick survey!

Chain of Custody Record

RUSH!

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin
Contact: Alicia McDonald
Address:
Phone: Fax:
Reports to be sent to:
1. Email: amcdonald@pinchin.com
2. Email: jmccann@pinchin.com

Project Information:

Project: 267991.012
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table ___ (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Regulation 406
Table ___ (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture
☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☒ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	SD	Sediment
O	Oil	SW	Surface Water
P	Paint	R	Rock/Shale
S	Soil		

Laboratory Use Only

Work Order #: 25725701
Cooler Quantity: One - no ice packs
Arrival Temperatures: 9.6 | 9.8 | 9.9
Depot Temperatures: T 3.6 | 2.8 | 2.4
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: ICE

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☒ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: ~~BTEX~~ F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. EX2-FS36	27/2/25	P AM PM	2	S					6										
2. EX2-FS37	"	P AM PM	2	S					6										
3. EX2-NW4534-R1	↓	P AM PM	1	S				4											
4.		AM PM																	
5.		AM PM																	
6.		AM PM																	
7.		AM PM																	
8.		AM PM																	
9.		AM PM																	
10.		AM PM																	
11.		AM PM																	

	Date	Time		Date	Time
Samples Relinquished By (Print Name and Sign): J McCann	27/2/25	1:45	Samples Received By (Print Name and Sign): C. Cuff	02/27/25	13h45
Samples Relinquished By (Print Name and Sign): C. Cuff	02/27/25	15h10	Samples Received By (Print Name and Sign): M. GRASL	Feb 28	8:45
Samples Relinquished By (Print Name and Sign):			Samples Received By (Print Name and Sign):		

Page 1 of 1

N°: T - 160527

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Document ID: DIV-78-151-023

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Date Issued: Jan 18, 2024