

AtkinsRéalis



**106 Eagleson Road, Kanata,
Ontario**

Shell Canada Products

September 2, 2025

AtkinsRéalis Reference: 705225

Phase Two Environmental Site Assessment

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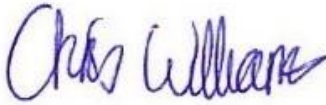
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¹ Formerly SNC-Lavalin Inc.



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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

AtkinsRéalis Canada Inc. (AtkinsRéalis) was retained by Shell Canada Products (Shell) to conduct a Phase Two Environmental Site Assessment (ESA) for the property located at 106 Eagleson Road, Kanata, Ontario (herein referred to as the Phase Two Property). The Phase Two Property is owned by Shell and currently operates as an active retail fuel outlet.

Shell have proposed a knock-down rebuild (KDR) program for the Phase Two Property, possibly to occur in 2026. Shell's objective is to redevelop the Phase Two Property, conceptually, with new facilities, including a new convenience store (C-store), a quick service restaurant (QSR), four (4) electric vehicle (EV) charging bays, new underground storage tanks (USTs), and a new canopy area. The existing car wash will remain following redevelopment.

Based on the proposed KDR program, the City of Ottawa (the City) provided AECOM with feedback (April 24, 2025) based on a pre-consultation meeting held on April 11, 2025. Within the feedback document, the City provided a list of next steps which are required to be addressed to meet the City's key land use policies and guidelines. Of note, Section 29 of the feedback document related to the completion of a Phase One ESA, which was completed by AtkinsRéalis on July 27, 2025, in accordance with the provisions of O. Reg. 153/04 (as amended). It is stated by the City that a record of site condition (RSC) is not required.

Shell has requested that AtkinsRéalis conduct a Phase Two ESA in support of the proposed redevelopment and to meet the requirements of City's key land use policies and guidelines.

1.2 SUMMARY OF RESULTS

The Phase Two ESA activities were undertaken at the Phase Two Property between July 22 and July 29, 2025. The Phase Two ESA field activities included the advancement of six (6) boreholes, all of which were completed with ground water monitoring wells. Findings of Phase Two ESA are summarized below

- The soil strata at the Phase Two Property comprised a surficial cover of asphalt or grass overlying clay fill material. The fill material was underlain by native sandy clay and limestone bedrock,.
- Headspace vapour concentrations in soil samples ranged from non-detectable to 25 parts per million by volume (ppmv),
- The average horizontal hydraulic gradient at the Phase Two Property, calculated using three sets of ground water elevation data from monitoring well pairs MW25-01/MW25-03, MW25-02/MW25-03, and MW25-03/MW25-06, was determined to be approximately 0.035 metres per metre (m/m).
- The depth to ground water in the overburden monitoring wells ranged from approximately 2.70 m bgs (MW25-02) to 4.21 m bgs (MW25-03), with corresponding water elevations ranging from 97.14 metres above local datum (m ald) (MW25-02) to 96.47 m ald (MW25-05). The inferred shallow ground water flow is interpreted to be towards the north west.
- The depth to ground water in the In the bedrock monitoring wells ranged from approximately 3.02 m bgs (MW25-06) to 3.36 m bgs (MW25-01), with corresponding water elevations ranging from 96.93 m ald (MW25-04) to 96.97 m ald (MW25-06). The inferred shallow ground water flow is interpreted to be towards the north west.
- Concentrations of barium exceeded the Table 9 SCS in five (5) soil samples collected from BH25-01, BH25-02, BH25-03 and BH25-04. A maximum value of 290 micrograms per gram (µg/g) was identified, which exceeded the Table 9 SCS of 220 µg/g.



- Concentrations of electrical conductivity (EC) exceeded Table 9 SCS in five (5) soil samples collected from BH25-02, BH25-04, BH25-05 and BH25-06. A maximum value of 1.8 milliSiemens per centimeter (mS/cm) was identified, which exceeded the Table 9 SCS of 0.7 mS/cm.
- Sodium Adsorption Ratio (SAR) exceeded Table 9 SCS in nine (9) soil samples collected from BH25-01, BH25-02, BH25-04 and BH25-06. A maximum value of 16 was identified, which exceeded the Table 9 SCS of 5.
- A single concentration of chloride exceeded Table 9 SCS in ground water sample MW25-02.

1.3 CONCLUSIONS

Based on the findings of the Phase Two ESA, it is the opinion of the QP who supervised the Phase Two ESA that the soil and ground water analytical data obtained during the Phase Two ESA is considered reliable, reproducible, and representative of the Phase Two Property conditions.

Based on the laboratory analysis, concentrations of barium, electrical conductivity (EC), and sodium adsorption ratio (SAR) in soil samples, as well as chloride in a single ground water sample, exceeded the applicable Table 9 SCS at the Phase Two Property. However, the exceedances of EC, SAR and chloride are believed to be associated with the application of de-icing salts to surfaces on and/or adjacent to the Phase Two Property for winter safety during snow and ice conditions.

The presence of barium, a stable natural element and one that is not commonly associated with petroleum hydrocarbons, suggest impacts are present in the northern portion of the Phase Two Property. The vertical extent of these impacts is interpreted to range through the fill and native overburden.

Given the presence of a tributary of Watts Creek, located approximately 20 meters (m) to the north of Phase Two Property, the Table 9 Site Condition Standards (SCS) have been applied (for use within 30 m of a water body). However, of the six (6) boreholes advanced during the Phase Two ESA, only two (2) are located within 30 m from the water body and as such, there could be the potential to use two (2) SCS for the Phase Two Property, where Table 9 SCS could be used for boreholes within 30 m and Table 3 SCS could be used for boreholes outside of 30 m. However, for conservative purposes and based on the absence of hydrocarbon impacts present in soil and ground water at the Phase Two Property, the entire Phase Two Property was compared to the Table 9 SCS.

As such, it is the opinion of the QP who supervised the Phase Two ESA that no additional consideration (i.e., remediation and/or risk assessment) will be necessary to support the proposed continued future use of the Phase Two Property for commercial purposes. However, when soil is excavated during the KDR, it must be managed in accordance with Ontario's Excess Soil Regulation (O. Reg. 406/19), which outlines requirements for characterization, tracking, and appropriate reuse or disposal of excavated materials.



2. INTRODUCTION

AtkinsRéalis Canada Inc. (AtkinsRéalis) was retained by Shell Canada Products (Shell) to conduct a Phase Two Environmental Site Assessment (ESA) for the property located at 106 Eagleson Road, Kanata, Ontario (herein referred to as the Phase Two Property). The Phase Two Property is owned by Shell and currently operates as an active retail fuel outlet. The geographical location of the Phase Two Property is presented on Figure 1.

Shell have proposed a knock-down rebuild (KDR) program for the Phase Two Property, possibly to occur in 2026. Shell's objective is to redevelop the Phase Two Property, conceptually, with new facilities, including a new convenience store (C-store), a quick service restaurant (QSR), four (4) electric vehicle (EV) charging bays, new underground storage tanks (USTs), and a new canopy area. The existing car wash will remain following redevelopment.

Based on the proposed KDR program, the City of Ottawa (the City) provided AECOM with feedback (April 24, 2025) based on a pre-consultation meeting held on April 11, 2025. Within the feedback document, the City provided a list of next steps which are required to be addressed to meet the City's key land use policies and guidelines. Of note, Section 29 of the feedback document related to the completion of a Phase One ESA, which was completed by AtkinsRéalis on July 27, 2025, in accordance with the provisions of O. Reg. 153/04 (as amended). It is stated by the City that a record of site condition (RSC) is not required.

Shell has requested that AtkinsRéalis conduct a Phase Two ESA in support of the proposed redevelopment and to meet the requirements of City's key land use policies and guidelines.

2.1 SITE DESCRIPTION

The Phase Two Property is located approximately 130 metres (m) to the south of the intersection of Katimavik Road and Eagleson Road, in the community of Kanata within Ottawa, Ontario. The Phase Two Property is bound by Katimavik Woods (followed by Katimavik Road) to the north, Eagleson Road (followed by agricultural land) to the east, a vacant plot of land (followed by the Roger-Saint-Denis Catholic Elementary School) to the south and residential properties to the west.

The Phase Two Property includes a car wash, car vacuum island, a convenience store, four (4) pump islands, and five (5) underground storage tanks. The remainder of the Phase Two Property includes asphalt covered areas and a grass covered area to the north followed by Katimavik Woods. The total area of the Phase Two Property is 0.76 hectares (1.88 acres). The layout of the Phase One Property is shown on The layout of the Phase Two Property is presented on Figure 2.

2.2 PROPERTY OWNERSHIP

Details	Description
Municipal Address(es)	106 Eagleson Road, Kanata, Ontario
Property Owner	Shell Canada Limited
Property Identification Number(s) (PIN)	04503-0082 (LT)
Legal Description(s)	BLK A, PL 898 ; S/T CT204829,CT206152,N692957,NS90918 KANATA

The Phase Two ESA was authorised by Lee Howell of Shell, whose contact details are listed below.



Person Requesting the Phase Two ESA	Mr. Lee D. Howell, P. Geo. Program Manager, Soil and Groundwater Solutions Shell Canada Products Suite 4000 - 500 Centre Street SE Calgary, Alberta T2G 1A6 Telephone: (416) 995-1674 Email: lee.howell@shell.com
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2.3 CURRENT AND PROPOSED FUTURE USES

The current property use of the Phase Two Property is a commercial fuel outlet (currently occupied by Shell). The proposed future use of the Phase Two Property is expected to be continued as a commercial fuel outlet. As such, the future property use of the Phase Two Property will be commercial as defined by O. Reg. 153/04 (as amended).

2.4 APPLICABLE SITE CONDITION STANDARDS

The site condition standards (SCSs) for use at the Phase Two Property were selected from the MECP (formerly Ministry of the Environment (MOE)) Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act using the approach described by O. Reg. 153/04, as amended. The SCS applicable to the Phase Two Property have been selected based on the following information:

- The Phase Two Property is not considered an environmentally sensitive area as defined by Section 41 of O. Reg. 153/04 since:
 - The Phase Two Property is not located within an area of natural significance;
 - The Phase Two Property does not include land that is within 30 metres (m) of an area of natural significance or part of such an area; and
 - The pH of soils measured during the Phase Two ESA were within the required range for comparison to the SCSs (i.e., 5 to 9 for surface soils and 5 to 11 for sub-surface soils).
- The Phase Two Property does not include all, or part of a water body; however, the nearest surface water body is a tributary of Watts Creek, located approximately 20 meters (m) to the north of Phase Two Property which connects to other tributaries of the Watts Mile Creek and eventually towards the Ottawa River.
- The Phase Two Property is serviced with municipal water.
- The Phase Two Property is not located within an area designated as a well-head protection area (or equivalent).
- The current property use is a commercial fuel outlet (currently occupied by Shell), and the future property use is expected to be continued as a commercial fuel outlet. As such, the industrial/commercial/community property use standards apply to the Phase Two Property.
- Grain size analyses conducted during the Phase Two ESA indicated that the predominant soil type at the Phase Two Property comprises fine to coarse-textured soil.



- The Phase Two Property is not considered a shallow soil property as defined by O. Reg. 153/04 (as amended) since more than 2/3 of the Phase Two Property has more than 2 m of overburden above bedrock.

Based upon the information above, the Table 9 generic site condition standards (Table 9 SCS) for use within 30 m of a water body in a non-potable ground water condition for Residential/Parkland/Institutional/Industrial/Commercial/Community property use in fine to coarse-textured soils, were selected for comparison with measured soil and ground water concentrations.



3. BACKGROUND INFORMATION

3.1 PHYSICAL SETTING

3.1.1 WATER BODIES

The nearest surface water body is a tributary of Watts Creek, located approximately 20 meters (m) to the north of Phase Two Property which connects to other tributaries of the Watts Mile Creek and eventually towards the Ottawa River. Furthermore, a seasonal tributary of the Watts Mile Creek is located immediately to the south of the Phase Two Property. Based on a review of the topography, regional ground water flow appears to be to the north towards the Ottawa River, located 5 kilometres to the north of Phase Two Property.

3.1.2 AREAS OF NATURAL SIGNIFICANCE

The National Heritage Information Centre (NHIC) database search, review of the Ministry of Natural Resources and Forestry maps of Natural Heritage System and Areas of Natural and Scientific Interest (ANSI), and review of the ANSI map provided by ERIS did not identify any ANSI, provincially significant wetlands (PSW) or provincial parks within 300 m of the Phase Two Property. As such, the Phase Two Property is not located within an area of natural significance as defined by O. Reg. 153/04 (as amended).

3.1.3 TOPOGRAPHY AND SURFACE WATER DRAINAGE

The Phase Two Property is relatively flat with an approximate elevation of 102 m above mean sea level (AMSL). With respect to the Phase Two Study Area, the topography generally slopes from the southeast (112 m AMSL) to the west-northwest (102 m AMSL).

3.1.4 WELL-HEAD PROTECTION AREAS

The Phase Two Property is not located within a well-head protection area as per the Source Protection Information Atlas interactive map managed by MECP.

3.1.5 DRINKING WATER SYSTEMS

The Phase Two Property and the Phase Two Study Area are serviced with municipal water, natural gas, communications and power, while there is a network of storm sewers and sanitary sewers.

3.2 PAST INVESTIGATIONS

No existing environmental reports were made available for review. However, prior to the completion of the Phase Two ESA, AtkinsRéalis completed a Phase One ESA (AtkinsRéalis, 2025). A brief summary of the Phase Two ESA is presented below:

- Based on the records review, observations made during the site reconnaissance and information gathered through interviews, one (1) on-site Potentially Contaminating Activities (PCAs) and five (5) off-site PCAs were identified at the Phase One Property and within the Phase One Study Area respectively.
- Based on the presence of the PCAs, two (2) Areas of Potential Environmental Concern (APECs) were identified during the Phase One ESA at the Phase One Property, as below.
 - APEC 1 – gasoline and associated products storage in fixed tanks. A pump island is located in the northern area of Phase One Property.
 - APEC 2 – gasoline and associated products storage in fixed tanks. Current and historical underground storage tank (UST) were located in the central area of the Phase Two Property.



4. SCOPE OF THE INVESTIGATION

4.1 OVERVIEW OF SITE INVESTIGATION

The objective of this work program was to conduct a Phase Two ESA in support of the proposed redevelopment of the Phase Two Property, by investigating potential impacts to soil and ground water related to APECs and associated PCOCs identified during the completion of a Phase One ESA of the Phase Two Property (AtkinsRéalis, 2025).

To meet the objectives described above, AtkinsRéalis developed a work plan to implement Shell's scope of work. The work plan was reviewed and approved by Shell and included the following:

- Public and private utility locates to confirm the location of subsurface utilities;
- Daylighting each borehole to avoid underground utilities;
- Borehole drilling, soil sampling, and monitoring well installation;
- Elevation surveying of borehole and monitoring well locations;
- Monitoring well development and purging;
- Ground water monitoring and sampling;
- Laboratory analyses of soil and ground water samples collected;
- Disposal of investigation wastes; and
- Reporting.

4.2 MEDIA INVESTIGATED

4.2.1 RATIONALE FOR MEDIA SAMPLED

The Phase One ESA identified several on-site and off-site PCAs, as presented on Figure 3. The PCAs resulted in the classification of two (2) APECs, as presented on Figure 4 and summarized further in Section 4.3.

Potentially affected media in each APEC were soil and ground water. No water bodies are present on the Phase Two Property; therefore, neither surface water quality nor sediment were investigated.

4.2.2 OVERVIEW OF THE FIELD INVESTIGATION

4.2.2.1 Soil

The soil investigation conducted by AtkinsRéalis included the following activities:

- Advancing three (3) overburden boreholes to approximate depths from 3.7 – 4.6 metres below ground surface (m bgs) and three (3) bedrock boreholes to approximate depths from 8.2 – 9.1 m bgs;
- Collecting soil samples at various depths of potential concern and submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), petroleum hydrocarbons (PHC) fractions F1 to F4, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and metals & inorganics;
- Collecting and submitting two representative soil samples for grain size analysis; and
- Collecting and submitting a representative soil sample for waste classification analysis.



4.2.2.2 Ground Water

The ground water investigation conducted by AtkinsRéalis included the following activities:

- Instrumenting six (6) boreholes as monitoring wells, with a 3.0 m screen for bedrock monitoring wells and a 1.5 m screen for overburden monitoring wells;
- Monitoring combustible headspace vapour readings, measuring water levels and presence or absence of light non aqueous phase liquids (LNAPL); and,
- Well development and collection of ground water samples from six (6) monitoring wells for laboratory analyses of BTEX, PHC F1 to F4, VOCs, PAHs and metals & inorganics.

4.3 PHASE ONE CONCEPTUAL SITE MODEL

The Phase One Conceptual Site Model (CSM) based on the information gathered and reviewed as part of the Phase One ESA. The Phase One CSM is presented on Figure 3 and Figure 4 which outline and describe the following features:

- Phase Two Property features and structures;
- Water bodies located within the Phase Two Study Area;
- Roads (including names);
- Uses of the properties adjacent to the Phase Two Property;
- Areas where potentially contaminating activities (PCAs) and APECs have been identified; and
- Any other pertinent on-site or off-site features which serve as potential environmental receptors or contaminant transport mechanisms (e.g., utilities, drains, etc.).

Based on the findings of the Phase One ESA, a total of one (1) on-site PCA and five (5) off-site PCAs were identified, as presented on Figure 3. Based on the identification of the on-site and off-site PCAs, a total of two (2) APECs were identified at the Phase One Property, which are presented on Figure 4 and summarized in the table below. Associated PCOCs are also included in the table below.



Area of Potential Environmental Concern ¹	Location of Area of Potential Environmental Concern on Phase One Property	Potential 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)
1	Current and historical USTs within tank nest	PCA Item 28 – Gasoline and Associated Products Storage in Fixed Tanks	On-site	PHC Fractions F1 – F4, VOCs, PAHs and metals & inorganics	Soil and ground water
2	Pump island	PCA Item 28 – Gasoline and Associated Products Storage in Fixed Tanks		PHC Fractions F1 – F4, BTEX	

¹ Area 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:

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

4.4 DEVIATIONS FROM SAMPLING AND ANALYSIS PLAN

No sampling and analysis plan was developed for the current Phase Two ESA.

4.5 IMPEDIMENTS

No physical impediments were encountered during the completion of the Phase Two ESA field investigation.



5. INVESTIGATION METHOD

5.1 GENERAL

The Phase Two ESA program was completed by AtkinsRéalis field staff using field and laboratory analysis protocols based on O. Reg. 153/04 (MOE, 2011a), “Guide for Completing Phase Two Environmental Site Assessment Under O. Reg. 153/04” (MOE, 2011c), preferred operating procedures (POPs) described in the AtkinsRéalis Field Work Guidance Manual (SNC-Lavalin, 2021) and a QA/QC program described herein. All field activities were conducted under full time AtkinsRéalis supervision.

5.1.1 HEALTH AND SAFETY

Prior to commencing intrusive investigations, a Health and Safety Plan (HASP) was developed in compliance with regulatory requirements, as well as Shell and AtkinsRéalis programs and policies and implemented by AtkinsRéalis during the Phase Two ESA.

A health and safety kick-off meeting and job safety analysis were conducted prior to commencing intrusive investigations to advise project personnel of the potential risks and appropriate mitigative actions, as well as to address any health and safety concerns identified by the on-site project staff. The HASP has been retained on file by AtkinsRéalis.

5.1.2 UTILITY CLEARANCES

Prior to conducting intrusive work, AtkinsRéalis retained Geo-Daylighting Inc. (Geo-Daylighting) of Halton Hills, Ontario to coordinate and complete public and private utility locates. Geo-Daylighting arranged the public locates through Ontario One Call to identify services within the planned work area. Subsequently, private locates were completed on July 21, 2025 by Geo-Daylighting, under AtkinsRéalis supervision, to mark and clear all private utilities and confirm the locations of public utilities.

Drilling locations were finalized based on the location of infrastructure and utilities. Copies of the public and private utility clearance documents are retained on file by AtkinsRéalis.

5.2 DRILLING AND EXCAVATING

As part of the field investigations, AtkinsRéalis retained the services of Badger Daylighting (Badger) to conduct daylighting of six (6) proposed borehole locations (BH25-01 to BH25-06) on July 22, 2025. Daylighting was completed by water compressor to verify that the boreholes were clear of potential underground infrastructure in advance of drilling that occurred while the facility and associated utilities remained active. Each location was cleared to an approximate depth of 1.5 m bgs.

AtkinsRéalis retained the services of Strata Drilling (Strata) to advance a total of six (6) boreholes at the Phase Two Property (BH25-01 to BH25-06) between July 23 – 25, 2025 using a CME55LC tracked drill rig using direct push technology. The boreholes were advanced to refusal upon bedrock at depths of 3.7 – 4.6 m bgs at which three (3) boreholes (BH25-01, BH25-04, and BH25-06) were advanced using rotary percussive techniques, with air as the flushing medium, to depths of between 7.9 – 9.1 m bgs. Each borehole was instrumented with a monitoring well (identified as MW25-01 to MW25-06). The locations of the six (6) boreholes are presented on Figure 5.

Strata are a MECP licensed well contractor, as per the provisions of O. Reg. 903 (as amended), under the Ontario Water Resources Act.

5.3 SOIL: SAMPLING

Soil samples from the daylighted portion of the boreholes were collected every 0.6 m using a long-handled sampling tool, where possible. Soil samples were collected from the drilled portion of each borehole using



the split spoon samplers. Split spoon samplers and sampling tool were cleaned with Liquinox soap and water between successive samples.

Recovered soil samples were divided into two (2) portions, the first for possible laboratory analysis and the second for field logging/screening. The portion retained for possible laboratory analysis was bottled in laboratory-supplied sampling containers as described in Section 5.12.1 and submitted for analysis. The second portion was placed in a sealable sample bag for field logging/screening. A new pair of nitrile gloves were donned between contact with each sample. Details of field screening methodology are described in Section 5.4

Soil samples placed in laboratory supplied glass containers were placed immediately in coolers equipped with ice to initiate cooling. Samples were maintained in a cold state until submitted to Bureau Veritas Laboratories (BV Labs) located in Mississauga, Ontario. Soil samples which were collected for PHC F1 and BTEX analysis were collected in pre-weighed laboratory supplied vials containing methanol preservative. The soil characteristics logged at each borehole location are provided within the borehole logs presented in Appendix A.

5.4 SOIL: FIELD SCREENING MEASUREMENTS

Soil samples collected for field logging/screening were placed in re-sealable plastic bags and inspected and logged for soil type, moisture, colour, structure, texture and visual evidence of impact. Maximum headspace combustible vapour readings in the sample bags were measured using a RKI Eagle II (RKI) organic vapour meter (OVM) operated in methane elimination mode and calibrated in the field to a known hexane standard.

The RKI was calibrated prior to use in the field to the hexane standard. Calibration was acceptable if readings were within 10% of the standard. If results were outside the calibration acceptance criteria of 10%, adjustments were made in the field until the instrument reading was within 10% of the standard value.

Potential worst-case sample selection for non-volatile parameters (e.g., metals & inorganics) was based on visual observation of the sample (e.g., staining), geology/hydrogeology and knowledge of contaminant behaviour.

5.5 GROUND WATER: MONITORING WELL INSTALLATION

5.5.1 INSTALLATION DETAILS

The monitoring wells were constructed using 5.1 cm diameter flush threaded PVC piping and installed with a 1.5 m long screen for overburden monitoring wells and a 3.0 m long screen for bedrock monitoring wells. The wells were completed with solid risers above the screens to ground surface. A clean silica sand pack was placed around each screen and isolated with hydrated bentonite to slightly below grade. The wells were completed with cast iron flush mount casings set in concrete and capped with clean j-plugs.

To minimize the potential for cross-contamination during well installation, well supplies (including, screen, riser and dedicated LDPE tubing) were removed from protective packaging only immediately prior to use. Handling was done by workers wearing a new pair of disposable nitrile gloves per well and by avoiding contact with potentially contaminating materials. Monitoring well construction details are shown on the borehole logs provided in Appendix A.

As per Regulation 903, monitoring wells completed as part of this investigation were registered with MECP. Copies of the MECP Water Well Records have been kept on file by AtkinsRéalis and are provided in Appendix B.



5.5.2 DEVELOPMENT DETAILS

Following installation, on July 28, 2025, the monitoring wells were developed by purging approximately three (3) borehole volumes of water (calculated as the volume of standing water plus the volume of water in the sand pack surrounding the well screen), or by purging the well dry three (3) times. The monitoring wells were equipped with dedicated low-density polyethylene (LDPE) tubing and inertial foot valves. The monitoring wells were developed by manually moving the inertial foot valve from the top of the screened area to the bottom to ensure development of the whole screen, occasionally agitating the bottom of the well to stir up and remove any sediment built up.

5.6 GROUND WATER: FIELD MEASUREMENT OF WATER QUALITY PARAMETERS

Prior to ground water sampling, on July 29, 2025, combustible headspace vapour readings in each monitoring well were measured upon removal of the well cap with an OVM operated in methane elimination mode. The OVM was calibrated in the field to hexane standards by AtkinsRéalís personnel as described in Section 5.4. Water levels in the monitoring wells were measured relative to the top of riser pipe using a Heron Instruments H.OIL Interface probe. Ground water monitoring was conducted after well development was completed, and after water levels had at least 24 hours to stabilize. Wells were also examined for the presence of LNAPL using the interface probe. Prior to use in each well, the interface probe was washed using Liquinox and rinsed with distilled water to minimize the potential for cross-contamination.

Upon completion of well development, monitoring wells were purged prior to sampling. To assess the progress of well purging, pH, conductivity, oxidation reduction potential (ORP), dissolved oxygen (DO), turbidity and temperature readings were measured using a Horiba U-22/U-52 Water Quality meter (Horiba) calibrated by Maxim Environmental and Safety Inc. or in the field by AtkinsRéalís personnel. Readings were taken between well volumes purged. Purging was stopped, and ground water samples collected when readings stabilized (generally within 10%) and the water was visually free from silt, where possible. This is to ensure standing water is removed from the well, and ground water that is representative of the aquifer is sampled.

5.7 GROUND WATER: SAMPLING

Ground water sampling was completed on July 29, 2025 using low-flow purging and sampling techniques using a peristaltic pump. The pump was equipped with disposable low-density polyethylene (LDPE) tubing and flexible silicon tubing. The pump was installed with the inlet placed at the approximate mid-point of the wetted screen interval of the monitoring well (ASTM, 2009) to facilitate ground water sampling near the zone of saturated soil impact and was connected to the peristaltic pump. Dedicated, disposable LDPE tubing was also connected from the pump to a flow-through cell equipped with a Horiba U-22/U-52 water quality monitoring system. Prior to sampling, all wells were purged until a minimum of three (3) consistent readings were obtained for pH, ORP, DO, conductivity, turbidity temperature and (where possible) while maintaining a consistent drawdown that was less than 25% of the distance from the top of the screened interval to the pump intake. The parameters were measured as described in Section 5.6. Each sample location was equipped with new dedicated LDPE and silicon tubing.

Handling for ground water sampling was done by AtkinsRéalís personnel wearing a new pair of disposable nitrile gloves per well and by avoiding contact with potentially contaminating materials. Samples for metals analysis were field filtered using dedicated inline 0.45 µm filters.

Samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers as described in Section 5.12.1.



5.8 SEDIMENT: SAMPLING

No surface water bodies, or sediment are present on the Phase Two Property and as such, no sediment sampling was undertaken.

5.9 ANALYTICAL TESTING

Laboratory analyses of soil and ground water were completed by BV Labs of Mississauga, Ontario. BV Labs' Mississauga facility is accredited by the Standards Council of Canada (SCC) and follow analytical protocols outlined in O. Reg. 153/04.

5.10 RESIDUE MANAGEMENT PROCEDURES

Waste materials generated during this Phase Two ESA included:

- Soil cuttings from drilling; and
- Purge water from ground water sampling.

Soil auger cuttings generated during the drilling program were temporarily stored on-site in 205 L metal drums for future disposal at a MECP licensed facility.

Purged ground water generated during well development and sampling was temporarily stored on-site in 205 L plastic drums and is temporarily stored on-site for future disposal at a MECP licensed facility.

5.11 ELEVATION SURVEYING

The ground surface elevations and top of riser pipe were surveyed by AtkinsRéalis personnel on July 29, 2025. The elevation survey was completed relative to a local benchmark of a monolith located at the northeast corner of a concrete pad on the Phase Two Property, which was assigned an elevation of 100 m above local datum (ald).

5.12 QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

A QA/QC program was implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis. As part of the QA/QC program, sampling protocols included minimizing sample handling; submitting field QA/QC samples; using dedicated sampling equipment; using sample specific identification and labelling procedures; and using chain of custody records.

5.12.1 SAMPLE CONTAINERS, PRESERVATION, LABELLING AND HANDLING

Soil and ground water samples submitted for laboratory analysis were collected in the field following protocols designed to minimize potential for cross-contamination. A new pair of nitrile gloves were donned by AtkinsRéalis field staff between each soil and ground water sample location and when handling dedicated supplies.

During the field work, a permanent waterproof marker was used to label the sample containers. Upon sample retrieval, samples for analysis were collected directly into laboratory containers (with or without preservatives depending on analytical suites) and placed into coolers with ice. Soil and ground water samples for laboratory analysis were collected following protocols designed to minimize the loss of volatile constituents, where applicable. The requested chemical analyses for the samples were documented on a chain of custody that was placed in the cooler with the samples. Prior to shipment, signed and dated custody seals were affixed to the coolers. The coolers were then delivered to the laboratory.

A consistent approach to identifying samples was applied to ensure proper identification of each sample, validity of analytical results and continuity between multiple series of site investigations. The approach for soil sample labelling was to use a three-component sample name:



- Sample prefix (i.e., BH);
- Location number (i.e., BH25-01); and
- Sequential sample number (i.e., BH25-01-01).

For ground water sample labelling, a two (2) component sample number was used (i.e., MW25-01). All water samples collected from the same location, over a period of time, typically have the same sample prefix and location number, and the sampling date is used to differentiate between sample programs.

5.12.2 SAMPLE EQUIPMENT CLEANING PROCEDURE

The non-dedicated soil sampling equipment (e.g., hand tools, split spoon) was brushed to remove loose soil and subsequently cleaned with detergent (Liquinox®) and distilled water between sample collection to minimize the potential for cross-contamination between samples. Dedicated disposable nitrile gloves were worn during the handling of each sample.

Prior to use of non-dedicated field equipment for ground water monitoring and sampling, the interface probe was washed using Liquinox and rinsed with distilled water to minimize the potential for cross-contamination between each well.

5.12.3 FIELD AND LABORATORY QA/QC SAMPLES

Field QA/QC samples for soil and ground water sampling included the following:

- One (1) field duplicate soil sample (BH25-02-02 and BH25-02-022) were collected and submitted for laboratory analysis of BTEX, PHC F1 – F4, PAHs and VOCs. The results are presented in Table 12.
- One (1) field duplicate ground water sample MW25-011 (parent sample MW25-01) was collected and submitted for laboratory analysis of metals and inorganics, BTEX, PHC F1 – F4, PAHs and VOCs. The results are presented in Table 13.
- One (1) trip blank water sample (TRIP BLANK) was placed in a cooler for the sampling events conducted on July 29, 2025, was submitted for laboratory analysis of VOCs. The results are presented in Table 14.
- One (1) field blank water sample (FIELD BLANK), which was prepared on July 29, 2025, was submitted for laboratory analysis of VOCs. The results are presented in Table 14.

5.12.4 DEVIATIONS FROM QA/QC PROGRAM

The QA/QC program was followed without deviation.

5.12.5 DATA REVIEW AND VALIDATION

Sampling data generated for this project was reviewed and verified by AtkinsRéalis personnel to ensure that data conforms to and satisfies project objectives. Data verification included ensuring that calibration of field instruments was satisfactory and field blank and field duplicates meet acceptable criteria. The data verification and reporting process for the laboratory data involved ensuring that the holding times, precision, accuracy, laboratory blanks, and detection limits are within acceptance criteria. If significant variances were identified, the final report was reviewed to determine if the overall project objectives are met and/or if additional investigations or corrective actions are required.



6. REVIEW AND EVALUATION

6.1 GEOLOGY

Details of soil stratigraphy observed in the boreholes advanced at the Phase Two Property are presented on the borehole logs provided in Appendix A. In general, the soil strata at the Phase Two Property comprised fill material overlying a native clay, silty clay, and/or gravelly clay stratum, as discussed in detail below:

- The surficial coverings at the Phase Two Property include concrete/asphalt and associated granular fill at boreholes BH25-02, BH25-04, BH25-05 and BH25-06, and grass overlying topsoil at boreholes BH25-01 and BH25-03.
- Beneath the surface covering, a clayey fill layer was encountered to a maximum depth of 2.1 m bgs.
- Underlying the fill material, native clay strata was identified to depths of between 3.7 to 4.6 m bgs.
- Limestone bedrock was encountered to a maximum depth of 9.1m bgs.

No visual or olfactory evidence of contamination was noted within any of the boreholes at the Phase Two Property. Given that the average thickness of overburden is greater than 2.0 m, the Phase Two Property is not considered to be a shallow soil property as defined by O. Reg. 153/04 (as amended).

Based on the encountered geology and the measured depth to ground water (discussed in Section 6.2) only one (1) aquifer was investigated, with the underlying aquitard not identified. Based on the results of soil and ground water sampling (Sections 6.6 and 6.7), it was deemed unnecessary to locate an aquitard below this unit or to investigate other aquifers that may be present at deeper depths.

6.2 GROUND WATER: ELEVATIONS AND FLOW DIRECTION

Ground water wells were used to determine ground water flow direction. The monitoring wells were intended to be screened to straddle the water table; however, shallower than anticipated ground water conditions were encountered at the Phase Two Property and ground water levels within select wells were measured above the well screens during ground water monitoring. Nevertheless, this is not expected to affect the interpretation of ground water flow direction. As only one aquifer was investigated, only one ground water contour pattern was determined.

Ground water levels were measured on July 29, 2025 and the results are summarized in Table 1. The ground water elevations were measured with respect to local site datum and were used to establish the inferred shallow horizontal ground water flow direction at the Phase Two Property.

The depth to ground water in the overburden monitoring wells ranged from approximately 2.70 m bgs (MW25-02) to 4.21 m bgs (MW25-03), with corresponding water elevations ranging from 97.14 metres above local datum (m ald) (MW25-02) to 96.47 m ald (MW25-05). The inferred shallow ground water flow is interpreted to be towards the north west, as presented in Figure 6.

The depth to ground water in the In the bedrock monitoring wells ranged from approximately 3.02 m bgs (MW25-06) to 3.36 m bgs (MW25-01), with corresponding water elevations ranging from 96.93 m ald (MW25-04) to 96.97 m ald (MW25-06). The inferred shallow ground water flow is interpreted to be towards the north west, as presented in Figure 7.

Ground water levels at the Phase Two Property are anticipated to the highest during spring and lower during winter; however, seasonal trends for ground water elevations at the Phase Two Property were not confirmed as part of the investigation. LNAPL was not observed in any purged ground water during the work program. Surface water infiltrates the Phase Two Property through the ground surface in areas that



are not sealed with surface paving. Subsurface utilities may provide preferential pathways at the Phase Two Property; however, they are not anticipated to influence the overall direction of ground water flow.

6.3 GROUND WATER: HYDRAULIC GRADIENTS

The average horizontal hydraulic gradient at the Phase Two Property, calculated using three sets of ground water elevation data from monitoring well pairs MW25-01/MW25-03, MW25-02/MW25-03, and MW25-03/MW25-06, was determined to be approximately 0.035 metres per metre (m/m). Based on the results of soil and ground water sampling (Sections 6.6 and 6.7), it was not deemed necessary to install additional deeper monitoring wells. As such, vertical hydraulic gradient was not assessed as part of this investigation.

6.4 SOIL TEXTURE

Grain size analysis completed at the Phase Two Property indicated that the fill material would be considered medium and fine textured while the overburden would be considered coarse textured, as defined by O. Reg. 153/04 (as amended). As such, the SCS for medium and fine soil (native clay, silty clay, or gravelly clay strata) were selected. Results of the grain size analysis is provided in Appendix C and presented in Table 2.

6.5 SOIL: FIELD SCREENING

Soil field screening techniques employed during the field assessment included recording visual observations of soil characteristics and measurement of combustible headspace vapour concentrations.

There was no visual or olfactory evidence of contamination observed in the recovered soil samples. In addition, soil headspace vapour concentrations, obtained using the OVM, ranged from non-detectable to 25 parts per million by volume (ppmv), as presented in Table 2. Field observations and field screening results for soil samples are shown on the borehole logs provided in Appendix A.

6.6 SOIL QUALITY

The soil analytical results are presented in Table 3 to Table 7. Copies of the laboratory Certificates of Analysis are provided in Appendix C. The following sections discuss the soil sample analytical results.

6.6.1 pH

A total of twelve (12) soil samples and one (1) duplicate were submitted for pH analysis, as shown in Table 3. Of these samples, eight (8) were surface soil samples (< 1.5 m bgs) and five (5) were sub-surface soil samples (> 1.5 m bgs).

The surface sample pH value were measured between 7.52 – 7.85, which are within the acceptable range for surface soils (i.e., 5 – 9). The sub-surface sample pH values were measured between 7.46 – 7.83, which are within the acceptable range for sub-surface soils (i.e., 5 – 11). As such, the Phase Two Property is not considered sensitive, as per Section 41 of O. Reg. 153/04 (as amended).

6.6.2 GENERAL CHEMISTRY AND TOTAL METALS

A total of twelve (12) soil samples and one (1) duplicate were analysed for metals and select inorganic parameters, as shown in Table 3. The following exceedances of the applicable Table 9 SCS were identified:

- Concentrations of barium exceeded the Table 9 SCS in five (5) soil samples collected from BH25-01, BH25-02, BH25-03 and BH25-04, as presented in Figure 8. A maximum value of 290 micrograms per gram (µg/g) was identified, which exceeded the Table 9 SCS of 220 µg/g.



- Concentrations of electrical conductivity (EC) exceeded Table 9 SCS in five (5) soil samples collected from BH25-02, BH25-04, BH25-05 and BH25-06, as presented in Figure 9. A maximum value of 1.8 milliSiemens per centimeter (mS/cm) was identified, which exceeded the Table 9 SCS of 0.7 mS/cm.
- Sodium Adsorption Ratio (SAR) exceeded Table 9 SCS in nine (9) soil samples collected from BH25-01, BH25-02, BH25-04 and BH25-06, as presented in Figure 9. A maximum value of 16 was identified, which exceeded the Table 9 SCS of 5.

The EC and SAR exceedances are believed to be a result of current and historical application of road salt (e.g., application of salt to adjacent roadways, walkways, driveways and/or parking lots). In accordance with O. Reg. 153/04 (as amended), if the QP determines that an applicable SCS is exceeded solely because a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both, the applicable SCS is deemed not to be exceeded for the purposes of an RSC. Although an RSC is not being pursued for the Phase Two Property, following the approach defined by O. Reg. 153/04 (as amended), the EC and SAR concentrations are not considered an exceedance of the SCSs, and SAR is not considered a COC for the Phase Two Property.

6.6.3 BTEX AND PETROLEUM HYDROCARBONS

A total of twelve (12) soil samples and one (1) duplicate were analysed for BTEX and PHC F1 – F4, as shown in Table 4 and presented in Figure 10. The analytical results indicated that all PHC BTEX and PHC F1 – F4 parameters were recorded at concentrations below the applicable Table 9 SCS.

6.6.4 VOLATILE ORGANIC COMPOUNDS

A total of twelve (12) soil samples and one (1) were analysed for VOCs, as shown in Table 5 and presented in Figure 11. The analytical results indicated that all VOC parameters were recorded at concentrations below the applicable Table 9 SCS.

6.6.5 POLYCYCLIC AROMATIC HYDROCARBONS

A total of twelve (12) soil samples and one (1) were analysed for PAHs, as shown in Table 6 and presented in Figure 12. The analytical results indicated that PAH parameters were recorded at concentrations below the applicable Table 9 SCS.

6.6.6 WASTE CHARACTERIZATION

One (1) soil sample (identified as TCLP) was submitted for waste characterization, including TCLP and ignitability analysis, as shown in Table 7.

The results of the TCLP analyses were compared to the O. Reg. 347 (as amended) Schedule 4 Leachate Quality Criteria. The analytical results indicated that the soil was non-flammable and that the leachate concentrations were below the Schedule 4 Leachate Criteria for all parameters analysed. Therefore, the soil was characterized as non-hazardous for the purposes of off-site disposal in the Province of Ontario.

6.6.7 CHEMICAL AND BIOLOGICAL TRANSFORMATION OF CONTAMINANTS

All the analysed parameters in soil samples were below the selected Table 9 SCS, with the exception of barium, EC and SAR. Barium is a stable natural element and does not undergo chemical or biological transformation into more harmful compounds. SAR is soil quality parameter and not considered a contaminant. As such, there were no contaminants identified in soil during the Phase Two ESA that breakdown through chemical and biological transformation into compounds considered more likely to pose a concern than the parent compounds.



6.6.8 DOES SOIL SERVE AS A CONTAMINANT SOURCE FOR OTHER MEDIA

All the analysed parameters in soil samples were below the selected Table 9 SCS, with the exception of barium, EC and SAR. Given the presence these parameters in soil, it is considered that soil will not serve as a contaminant source for ground water.

6.6.9 EVALUATION OF LIGHT OR DENSE NON-AQUEOUS LIQUIDS (SOIL)

The MECP generic standards were established considering the potential presence of free phase (non-aqueous) product by calculating 'free phase thresholds', or concentrations above which suggest the potential presence of NAPL. All analysed PHC, BTEX, VOC, and PAH parameters were below the free phase thresholds. No contaminants associated with light or dense NAPL (i.e., LNAPL or DNAPL) were identified in analysed soil samples collected at the Phase Two Property.

6.7 GROUND WATER QUALITY

The ground water analytical results are presented in Table 8 to Table 11. Copies of the laboratory Certificates of Analysis are provided in Appendix D. The following sections discuss the ground water sample analytical results.

6.7.1 DISSOLVED INORGANICS AND METALS

A total of six (6) ground water samples and one (1) duplicate were analysed for dissolved metals and inorganics as shown in Table 8 and presented in Figure 13 and Figure 14. The analytical results indicated that with the exception of chloride within MW25-02, all dissolved inorganics and metals parameters were recorded at concentrations below the applicable Table 9 SCS. For the chloride exceedance a concentration of 2,000 micrograms per liter (mg/l) was identified, which exceeded the Table 9 SCS of 1,800 mg/g.

6.7.2 PHC & BTEX

A total of six (6) ground water samples and one (1) duplicate, were analysed for BTEX and PHC F1 – F4, as shown in Table 9 and presented in Figure 15. The analytical results indicated all PHC F1 – F4 and BTEX parameters were recorded at concentrations below the applicable Table 9 SCS for all samples analysed.

6.7.3 VOCs

A total of six (6) ground water samples and one (1) duplicate, were analysed for VOCs, as shown in Table 10 and presented in Figure 16. The analytical results indicated all VOC parameters were recorded at concentrations below the applicable Table 9 SCS for all samples analysed.

6.7.4 PAHs

A total of six (6) ground water samples and one (1) duplicate, were analysed for PAHs, as shown in Table 11 and presented in Figure 17. The analytical results indicated all PAH parameters were recorded at concentrations below the applicable Table 9 SCS for all samples analysed.

6.7.5 CHEMICAL AND BIOLOGICAL TRANSFORMATION OF CONTAMINANTS

All the analysed parameters in ground water samples were below the selected Table 9 SCS, with the exception of chloride. It is noted that chloride is a ground water quality parameter commonly associated with road salt application to soil and is not typically considered a COC. Chloride does not undergo chemical or biological transformation into more harmful compounds. As such, no contaminants were identified in ground water during the Phase Two ESA that breakdown through chemical and biological transformation into compounds considered more likely to pose a concern than the parent compounds.



6.7.6 EVALUATION OF LIGHT OR DENSE NON-AQUEOUS LIQUIDS (GROUND WATER)

All the analysed PHC F1 – F4 parameters in ground water samples were below the selected Table 9 SCS. As such, no contaminants associated with light or dense NAPL (i.e., LNAPL or DNAPL) were identified at the Phase Two Property.

6.8 SEDIMENT QUALITY

As no water bodies are present at the Phase Two Property, sediment sampling was not conducted as part of the Phase Two ESA.

6.9 QUALITY ASSURANCE AND QUALITY CONTROL RESULTS

The QA/QC program was implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis.

6.9.1 LABORATORY QUALITY CONTROL

Laboratory analysis was completed in accordance with O. Reg. 153/04 (as amended) and generally accepted industry practices. Laboratory QA/QC measures included analysis of method blank, spiked blank, duplicate and matrix spike samples. A certificate of analysis has been received for each sample submitted for soil and ground water analysis and all certificates of analysis have been included in full in Appendix C and Appendix D, respectively. All certificates of analysis received from the contract analytical laboratory comply with sub-section 47(3) of the regulation.

The QP conducted a review of the laboratory QC reports within each certificate of analysis. In summary, there were no laboratory QC qualifiers (i.e., QC sample results reported outside of the applicable acceptance criteria) which could have a material affect on the interpretation of the soil and/or ground water data.

6.9.2 FIELD QUALITY CONTROL SAMPLES

As part of the QA/QC program, one (1) soil and one (1) ground water duplicate samples were collected as part of the QA/QC program for the Phase Two ESA. For blind field duplicate samples, the relative percent difference (RPD) was calculated to assess correlation between duplicate samples and their analytical pairs. The RPD is calculated by the following formula:

$$RPD = \frac{|X_1 - X_2|}{X_{avg}} \times 100$$

where X_1 and X_2 are the duplicate sample concentrations and X_{avg} is the mean of X_1 and X_2 . Analytical error increases near the RDL; therefore, the RPD is not typically calculated unless the concentrations of the duplicate samples are greater than five (5) times the RDL. Generally accepted RPDs for laboratory duplicates are approximately 40 to 50% for soil and 20 to 40% for ground water. For field duplicates, acceptable limits for RPDs are 40 to 80% for soil inorganic parameters, 80 to 100% for soil organic parameters, 100% for soil vapour parameters, 40% for ground water inorganic parameters and 60% for ground water organic parameters. If the RPD for a field duplicate sample and its analytical pair did not meet acceptable RPD limits, an explanation is provided below.

Analytical results for field duplicate soil samples generally showed acceptable correlation to their corresponding analytical pairs for analysed parameters. Results for the field blank and trip blanks samples were all non calculable for all analysed parameters. The results of the RPD calculations for soil and ground



water duplicate samples are presented in Table 12 and Table 13, while Table 14 shows the results of the field and trip blank samples.

6.9.3 QA/QC SUMMARY

All hold times were met, and the appropriate preservation methods were used. Samples were collected in the appropriate clean sample containers provided by BV Labs and were stored on sufficient ice to keep the temperature between 0 and 10°C. A chain-of-custody accompanied all analyzed samples, and they are included with the laboratory certificates of analyses provided in Appendix C and Appendix D.

In summary, no issues with laboratory analysis, sample shipping, sample preservation, or field sampling techniques that could have a material effect on the interpretation of the reported results were identified as part of the QA/QC program. Therefore, the soil and ground water analytical laboratory data is considered reliable.

6.9.4 QA/QC STATEMENT

With respect to Subsection 47 (3) of O. Reg. 153/04 (as amended), the following statements apply to this Phase Two ESA:

- All Certificates of Analyses, pursuant to Clause 47 (2) (b) of the regulation, comply with Subsection 47 (3);
- A Certificate of Analysis report has been received for each sample submitted for analysis; and
- All Certificates of Analysis have been included, in full, within Appendix C and Appendix D.

6.10 PHASE TWO CONCEPTUAL SITE MODEL

The following Phase Two CSM has been prepared in accordance with Schedule E, Part V, Table 1, Section 6(x) of (O. Reg.) 153/04 (as amended). The Phase Two CSM has been developed through analysis and interpretation of the field and analytical data gathered during the Phase Two ESA.

A summary of the PCAs and APECs associated with the Phase Two Property are provided in the following sections along with a narrative description of the Phase Two CSM. The Phase Two CSM narrative description is supported with the figures provided within this report which illustrate the physical setting of the Phase Two Property and contaminants which are present on the Phase Two Property at a concentration greater than the applicable Table 9 SCS.

6.10.1 POTENTIALLY CONTAMINATING ACTIVITIES, AREAS OF POTENTIAL ENVIRONMENTAL CONCERN AND UTILITIES

6.10.1.1 Potentially Contaminating Activities and Areas of Potential Environmental Concern

The area investigated included the entire Phase Two Property, which includes APECs due to both on-site and off-site PCAs as discussed in 4.3 and presented in Figure 3 and Figure 4. Boreholes and monitoring wells utilized during the Phase Two ESA are presented in Figure 5.

6.10.1.2 Approximate Locations of Utilities and Other Subsurface Structures

The underground utilities and other subsurface structures are presented in Figure 2. Utility trenches may intercept the shallow ground water table at the Phase Two Property, and as such, may serve as preferential pathways for contaminant distribution.



6.10.2 PHYSICAL SETTING OF PHASE TWO PROPERTY

6.10.2.1 Stratigraphy

The soil strata at the Phase Two Property comprised fill material overlying a native clay, silty clay and/or gravelly clay stratum, as discussed in detail below:

- The surficial coverings at the Phase Two Property include concrete/asphalt and associated granular fill at boreholes BH25-02, BH25-04, BH25-05 and BH25-06, and grass overlying topsoil at boreholes BH25-01 and BH25-03.
- Beneath the surface covering, a clayey fill layer was encountered to a maximum depth of 2.1 m bgs.
- Underlying the fill material, native clay strata was identified to depths of between 3.7 to 4.6 m bgs.
- Limestone bedrock was encountered to a maximum depth of 9.1m bgs.

No visual or olfactory evidence of contamination was noted within any of the boreholes at the Phase Two Property. Given that the average thickness of overburden is greater than 2.0 m, the Phase Two Property is not considered to be a shallow soil property as defined by O. Reg. 153/04 (as amended).

6.10.2.2 Hydrogeological Settings

The nearest surface water body is a tributary of Watts Creek, located approximately 20 meters (m) to the north of Phase Two Property which connects to other tributaries of the Watts Mile Creek and eventually towards the Ottawa River. Based on a review of the topography, regional ground water flow appears to be to the north towards the Ottawa River, located 5 kilometres to the north of Phase Two Property

The Phase Two Property is relatively flat with an approximate elevation of 102 m AMSL. With respect to the Phase Two Study Area, the topography generally slopes from the southeast (112 m AMSL) to the west-west-northwest (102 m AMSL).

The average horizontal hydraulic gradient at the Phase Two Property, calculated using three sets of ground water elevation data from monitoring well pairs MW25-01/MW25-03, MW25-02/MW25-03, and MW25-03/MW25-06, was determined to be approximately 0.035 metres per metre (m/m). Based on the results of soil and ground water sampling (Sections 6.6 and 6.7), it was not deemed necessary to install additional deeper monitoring wells. As such, vertical hydraulic gradient was not assessed as part of this investigation.

6.10.2.3 Approximate Depth to Bedrock

Bedrock was encountered at depths ranging from 3.7 – 4.6 m bgs . Three (3) bedrock boreholes (BH25-01, BH25-04, and BH25-06) were advanced to depths ranging from 8.2 – 9.1 m bgs within a limestone/dolostone horizon.

6.10.2.4 Approximate Depth to Water Table

The depth to ground water in the overburden monitoring wells ranged from approximately 2.70 m bgs (MW25-02) to 4.21 m bgs (MW25-03), with corresponding water elevations ranging from 97.14 metres above local datum (m ald) (MW25-02) to 96.47 m ald (MW25-05). The inferred shallow ground water flow is interpreted to be towards the north west, as presented in Figure 6.

The depth to ground water in the In the bedrock monitoring wells ranged from approximately 3.02 m bgs (MW25-06) to 3.36 m bgs (MW25-01), with corresponding water elevations ranging from 96.93 m ald (MW25-04) to 96.97 m ald (MW25-06). The inferred shallow ground water flow is interpreted to be towards the north west, as presented in Figure 7.



Ground water levels measured during the Phase Two ESA were collected during the summer season. Ground water levels may fluctuate seasonally; however, seasonal trends for ground water elevations at the Phase Two Property were not confirmed as part of the investigation. It is anticipated that water levels at the Phase Two Property would be higher in spring and early summer and lower in fall and winter.

6.10.2.5 Applicability of Section 35, 41 or 43.1

Section 35 of O. Reg. 153/04 (as amended) is applicable to the Phase Two Property as the non-potable ground water SCSs have been applied (i.e., Table 9 SCS).

Section 41 of O. Reg. 153/04 (as amended) is not applicable to the Phase Two Property as the Phase Two Property is not within an area of natural significance, is not adjacent to an area of natural significance or includes land that is within 30 meters of an area of natural significance. In addition, soil pH at the Phase Two Property falls within the prescribed ranges of 5 to 9 for surface soil and 5 to 11 for subsurface soil.

Section 43.1 of O. Reg. 153/04 (as amended) is not applicable to the Phase Two Property as the Phase Two Property is not a shallow soil property and does not include all or part of a water body. However; the nearest surface water body is a tributary of Watts Creek, located approximately 20 meters (m) to the north of Phase Two Property which connects to other tributaries of the Watts Mile Creek and eventually towards the Ottawa River.

6.10.2.6 Areas On, In or Under the Phase Two Property Where Excess Soil Is Finally Placed

A layer of fill was identified throughout the Phase Two Property to a maximum depth of 2.1 m bgs.

6.10.2.7 Approximate Locations of Proposed Buildings and Other Structures

Shell's objective is to redevelop the Phase Two Property, conceptually, with new facilities, including a new convenience store (C-store) and a quick service restaurant (QSR) in the western area, four (4) electric vehicle (EV) charging bays, new underground storage tanks (USTs), and a new canopy area. The existing car wash will remain following redevelopment.

6.10.3 AREAS OF SITE WHERE A CONTAMINANT IS PRESENT ON, IN, OR UNDER THE PHASE TWO PROPERTY AT A CONCENTRATION GREATER THAN THE APPLICABLE SITE CONDITION STANDARD

Areas where contaminants are present above the Table 9 SCSs in soil and ground water are presented in Figure 8 to Figure 17.

6.10.3.1 Contaminants of Exceeding Applicable Standards

Based on laboratory analysis completed as part of the Phase Two ESA, contaminants of concern which exceeded the applicable Table 9 SCS were identified in soil (barium, EC and SAR) and ground water (chloride)

No water bodies are present on the Phase Two Property; therefore, neither surface water quality nor sediment were investigated.

6.10.3.2 Distribution of Contaminants

Exceedances of the applicable Table 9 SCS for soil (barium, EC and SAR) and ground water (chloride) were identified soil samples recovered in one or more boreholes advanced at the Phase Two Property. The distribution of these exceedances are further discussed below.



- Lateral limits: The lateral extent of barium impacts is interpreted to extend to the northern portion of the Phase Two Property (Figure 8). The extents of the EC and/or SAR impacts are interpreted to extend to the paved area and adjacent grassed area of the Phase Two Property (Figure 9).
- Vertical limits: The vertical extent of barium impacts (Figure 18) and EC/SAR impacts (Figure 19) are expected to extend to the bedrock interface.

With regards to the EC and SAR exceedances, it is understood that de-icing salt is applied on the asphalt surfaces throughout the Phase Two Property for snow and ice control during the winter months, and on the sidewalks and roads adjacent to the property. The application of road salt presents a potential source of contamination, (i.e., EC and SAR in soil and/or sodium and chloride in ground water). However, as per Section 49.1 of O. Reg. 153/04 (as amended under O. Reg. 407/19) exceedances of SCS arising solely due to the application of a substance for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both are not considered exceedances for the purposes of filing an RSC. Although an RSC is not being pursued for the Phase Two Property, following the approach defined by O. Reg. 153/04 (as amended), EC and SAR in soil are not considered contaminants at the Phase Two Property.

The extent of elevated chloride impacts in ground water at the Phase Two Property are discussed below.

- Lateral limits: The lateral extent of chloride impacts in ground water at the Phase Two Property is interpreted to be limited to monitoring well MW25-02 (Figure 14), located at the northern end corner of the Phase Two Property. Chloride concentrations in MW25-02 were notably elevated, while surrounding wells (MW25-01, MW25-03 to MW25-06) exhibited significantly lower levels. This suggests the chloride impact is localized and does not extend laterally beyond MW25-02.
- Vertical limits (Figure 20): The vertical extent of the chloride impacts was delineated within the saturated zone, based on sample results collected at multiple depth well screens. The affected interval spans approximately from 3.1 to 4.6 m bgs, suggesting that the single chloride exceedance is confined and do not extend significantly beyond the delineated zone.

6.10.3.3 Migration of Contaminants

Elevated EC and SAR values in soil are considered to be a result of historic and current road salt application activities at the Phase Two Property and within surrounding road allowances.

Utility trenches may serve as preferential pathways for contaminant distribution and may intercept the shallow ground water table at the Phase Two Property; however, all COCs identified at the Phase Two Property at concentrations exceeding the Table 2 SCS are considered likely to be widespread in the surrounding areas.

6.10.3.4 Meteorological and Climatic Considerations

It is noted that climatic or meteorological conditions may influence the distribution and migration of COCs at the Phase Two Property. Seasonal fluctuations in ground water due to cyclical increases and decreases in precipitation can affect ground water recharge. However, given the presence of coarse/fine-grained soils at the Phase Two Property, which allows for limited infiltration of rain/snow melt; infiltration is not expected to result in leaching of contaminants deeper into the subsurface.

6.10.3.5 Soil Vapour Intrusion

There were no elevated levels of volatile parameters identified at the Phase Two Property. As such, soil vapour intrusion into buildings at the Phase Two Property is not considered a concern.



6.10.3.6 Cross Sections

The lateral and vertical distribution of contaminants in each area where contaminants are present at concentrations greater than the Table 9 SCS in soil, the approximate depth to the water table, and stratigraphy are shown in figures Figure 18 and Figure 19 for soil and Figure 20 for ground water, as discussed in the previous sections.

6.10.3.7 Diagrams Showing Release Mechanisms, Exposure Pathways and Receptors

The human health and ecological receptor CSMs, including transport pathway, receptors and routes of exposure are shown on Figure 21.



7. SUMMARY OF RESULTS

The Phase Two ESA activities were undertaken at the Phase Two Property between July 22 and July 29, 2025. The Phase Two ESA field activities included the advancement of six (6) boreholes, all of which were completed with ground water monitoring wells. Findings of Phase Two ESA are summarized below

- The soil strata at the Phase Two Property comprised a surficial cover of asphalt or grass overlying clay fill material. The fill material was underlain by native sandy clay and limestone bedrock,.
- Headspace vapour concentrations in soil samples ranged from non-detectable to 25 ppmv,
- The average horizontal hydraulic gradient at the Phase Two Property, calculated using three sets of ground water elevation data from monitoring well pairs MW25-01/MW25-03, MW25-02/MW25-03, and MW25-03/MW25-06, was determined to be approximately 0.035 m/m.
- The depth to ground water in the overburden monitoring wells ranged from approximately 2.70 m bgs (MW25-02) to 4.21 m bgs (MW25-03), with corresponding water elevations ranging from 97.14 m ald (MW25-02) to 96.47 m ald (MW25-05). The inferred shallow ground water flow is interpreted to be towards the north west.
- The depth to ground water in the In the bedrock monitoring wells ranged from approximately 3.02 m bgs (MW25-06) to 3.36 m bgs (MW25-01), with corresponding water elevations ranging from 96.93 m ald (MW25-04) to 96.97 m ald (MW25-06). The inferred shallow ground water flow is interpreted to be towards the north west.
- Concentrations of barium exceeded the Table 9 SCS in five (5) soil samples collected from BH25-01, BH25-02, BH25-03 and BH25-04. A maximum value of 290 µg/g was identified, which exceeded the Table 9 SCS of 220 µg/g.
- Concentrations of EC exceeded Table 9 SCS in five (5) soil samples collected from BH25-02, BH25-04, BH25-05 and BH25-06. A maximum value of 1.8 mS/cm was identified, which exceeded the Table 9 SCS of 0.7 mS/cm.
- SAR exceeded Table 9 SCS in nine (9) soil samples collected from BH25-01, BH25-02, BH25-04 and BH25-06. A maximum value of 16 was identified, which exceeded the Table 9 SCS of 5.
- A single concentration of chloride exceeded Table 9 SCS in ground water sample MW25-02.

7.1 DISCUSSIONS AND CONCLUSIONS

Based on the findings of the Phase Two ESA, it is the opinion of the QP who supervised the Phase Two ESA that the soil and ground water analytical data obtained during the Phase Two ESA is considered reliable, reproducible, and representative of the Phase Two Property conditions.

Based on the laboratory analysis, concentrations of barium, EC and SAR in soil samples, as well as chloride in a single ground water sample, exceeded the applicable Table 9 SCS at the Phase Two Property. However, the exceedances of EC, SAR and chloride are believed to be associated with the application of de-icing salts to surfaces on and/or adjacent to the Phase Two Property for winter safety during snow and ice conditions.

The presence of barium, a stable natural element and one that is not commonly associated with petroleum hydrocarbons, suggest impacts are present in the northern portion of the Phase Two Property. The vertical extent of these impacts is interpreted to range through the fill and native overburden.

Given the presence of a tributary of Watts Creek, located approximately 20 meters (m) to the north of Phase Two Property, the Table 9 Site Condition Standards have been applied (for use within 30 m of a water



body). However, of the six (6) boreholes advanced during the Phase Two ESA, only two (2) are located within 30 m from the water body and as such, there could be the potential to use two (2) SCS for the Phase Two Property, where Table 9 SCS could be used for boreholes within 30 m and Table 3 SCS could be used for boreholes outside of 30 m. However, for conservative purposes and based on the absence of hydrocarbon impacts present in soil and ground water at the Phase Two Property, the entire Phase Two Property was compared to the Table 9 SCS.

As such, it is the opinion of the QP who supervised the Phase Two ESA that no additional consideration (i.e., remediation and/or risk assessment) will be necessary to support the proposed continued future use of the Phase Two Property for commercial purposes. However, when soil is excavated during the KDR, it must be managed in accordance with Ontario's Excess Soil Regulation (O. Reg. 406/19), which outlines requirements for characterization, tracking, and appropriate reuse or disposal of excavated materials.

7.2 QUALIFICATIONS OF THE ASSESSORS

This Phase Two ESA was completed in accordance with the provisions of O. Reg. 153/04 (as amended). The assigned Qualified Person, Mr. Christopher Williams, B.Sc., P. Geo. (Ltd.), confirms that he supervised the carrying out of the subject Phase Two ESA and concurs with the reported findings and conclusions presented within this Phase Two ESA report.

Author – Mrs. Sara Akib., P.Geo., is an Environmental Geoscientist in the Province of Ontario with years of experience in site assessment and remediation. Their experience includes conducting field investigations and reporting for Phase One and Two ESAs, excess soils management, including Assessments of Past Uses, and hydrogeological characterization of various sites.

Reviewer – Mr. Christopher Williams, P. Geo. (Limited) QP_{ESA}, is a licensed geoscientist and Project Manager with over 20 years of experience in contaminated sites investigation including Phase One and Two ESAs. Mr. Williams was the author of the Phase One ESA. Mr. Williams is a graduate from the University of the West of England, Bristol, UK with a Bachelor of Science degree in Environmental Biology. Mr. Williams is a licensed Professional Geoscientist in the Province of Ontario and a Qualified Professional for environmental site assessments.



8. REFERENCES

- AtkinsRéalis, 2025, "*Phase One Environmental Site Assessment, 106 Eagle Road, Kanata, Ontario*", dated July 25, 2025.
- Barnett, P.J., Cowan W.R., and Henry, A.P., 1991. Quaternary Geology of Ontario, Southern Sheet; Ontario Geological Survey, Map 2556, Scale 1:1,000,000.
- Chapman, L.J., and Putnam, D.F. 1984: Physiography of Southern Ontario. Ontario Geological Survey, Map P.2715 (coloured). Scale 1:600 000.
- Ministry of the Environment (MOE), 2011. Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. April 15, 2011.
- Ontario Ministry of Environment and Energy (MOE), 2011. Ontario Regulation 153/04, Record of Site Condition, Part XV.1 of the Environmental Protection Act, October 31, 2011.
- Ontario Geological Survey, 1991. Bedrock Geology of Ontario, Southern sheet; Ontario Geological Survey, Map 2544, Scale 1:1,000,000.
- SNC-Lavalin Inc., 2022. Field Work Guidance Manual (Version 6.1), Revised July 2022.



Figures



NOTES	
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE	
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS	
3. 'm' : METRES	
SOURCES	
1. GOOGLE EARTH PRO IMAGE, APRIL 23, 2025	

SCALE 1:4,000	
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AtkinsRéalis	
Client: SHELL CANADA PRODUCTS	Location: 106 EAGLESON ROAD (C10231), KANATA, ON
Title: PHASE TWO PROPERTY LOCATION PLAN	
Drawn: AG	Date: AUGUST 2025
Verified: SA	Project Manager: CW
Project No: 705228	Dwg No: 705228

FIGURE 1
PAGE FORMAT: 8.5x11

PATH: P:\SHELL\106 EAGLESON RD. KANATA\705228\40_EXECUTION\45_GIS_DWG\005 (2025 PH2)\005F01_705228.DWG



N

○LS

LIGHT STANDARD

○

MANHOLE

□

CATCH BASIN

PHASE TWO PROPERTY LINE

PROPERTY LINE

EXISTING BUILDING

INFRASTRUCTURE

PUMP CANOPY

-X-X-

FENCE LINE

UNDERGROUND TANK

G

GAS SERVICE

H

HYDRO SERVICE

W

WATER SERVICE

S

STORM SERVICE

SS

SANITARY SERVICE

SCALE 1:600

0

12

24m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE

2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

3. 'm' : METRES

SOURCES

1. MICROSOFT BING IMAGE, 2025

2. AECOM, INITIAL SITE LAYOUT, SHEET No. C103.0, PROJECT No. CAN01743, FEBRUARY 7, 2025

AtkinsRéalis

Client: SHELL CANADA PRODUCTS

Location: 106 EAGLESON ROAD (C10231), KANATA, ON

Title:

PHASE TWO PROPERTY LAYOUT

Drawn: AG

Date: AUGUST 2025

Project No: 705228

Verified: SA

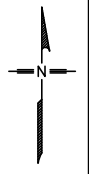
Project Manager: CW

Dwg No: 705228

FIGURE 2

PAGE FORMAT: 11x17

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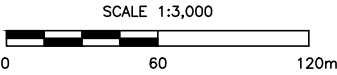


ON PROJECT AREA ARE THERE?		
ROADS	NO	
WATER WELLS	NO	
IN APU STUDY AREA ARE THERE?		
ROADS	YES	SEE FIGURE
WATER BODIES	YES	SEE FIGURE
AREA OF NATURAL SIGNIFICANCE	NO	

ON-SITE REF No.	PCA DESCRIPTION
A	PCA # 28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS - CURRENT AND HISTORICAL UNDERGROUND STORAGE TANKS WITHIN TANK NEST
B	PCA # 28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS - PUMP ISLAND
C	NO APPLICABLE O. REG 153/04 PCA # - ROAD SALT APPLICATION - POTENTIAL IMPACTS FROM THE USE OF ROAD SALT; HOWEVER, PER SECTION 49.1 OF O. REG. 153/04 (AS AMENDED UNDER O. REG. 407/19) EXCEEDANCES OF SITE CONDITION STANDARDS ARISING SOLELY DUE TO THE APPLICATION OF A SUBSTANCE FOR THE SAFETY OF VEHICULAR OR PEDESTRIAN TRAFFIC UNDER CONDITIONS OF SNOW OR ICE OR BOTH ARE NOT CONSIDERED EXCEEDANCES FOR THE PURPOSES OF FILING AN RSC; CONSEQUENTLY, THIS IS NOT CONSIDERED TO GIVE RISE TO AN APEC AT THE PHASE ONE PROPERTY
OFF-SITE REF No.	PCA DESCRIPTION
1	PCA #1 - ACID AND ALKALI MANUFACTURING, PROCESSING AND BULK STORAGE - PCAs RESULTED IN ACTIVITIES WITHIN A PUBLIC SCHOOL AND RELATE TO SMALL SCALE STORAGE OF CHEMICALS
2	PCA #8 - Chemical Manufacturing, Processing and Bulk Storage - PCAs RESULTED IN ACTIVITIES WITHIN A PUBLIC SCHOOL AND RELATE TO SMALL SCALE STORAGE OF CHEMICALS
3	PCA #39 - Paints Manufacturing, Processing and Bulk Storage - PCAs RESULTED IN ACTIVITIES WITHIN A PUBLIC SCHOOL AND RELATE TO SMALL SCALE STORAGE OF CHEMICALS
4	PCA #40 - PESTICIDES (INCLUDING HERBICIDES, FUNGICIDES AND ANTI-FOULING AGENTS) MANUFACTURING, PROCESSING, BULK STORAGE AND LARGE-SCALE APPLICATIONS - RESIDENTIAL PROPERTY WITH SMALL SCALE PESTICIDE STORAGE
5	PCA #19 - ELECTRONIC AND COMPUTER EQUIPMENT MANUFACTURING - RESIDENTIAL PROPERTY WITH SMALL SCALE MANUFACTURING PROCESSES

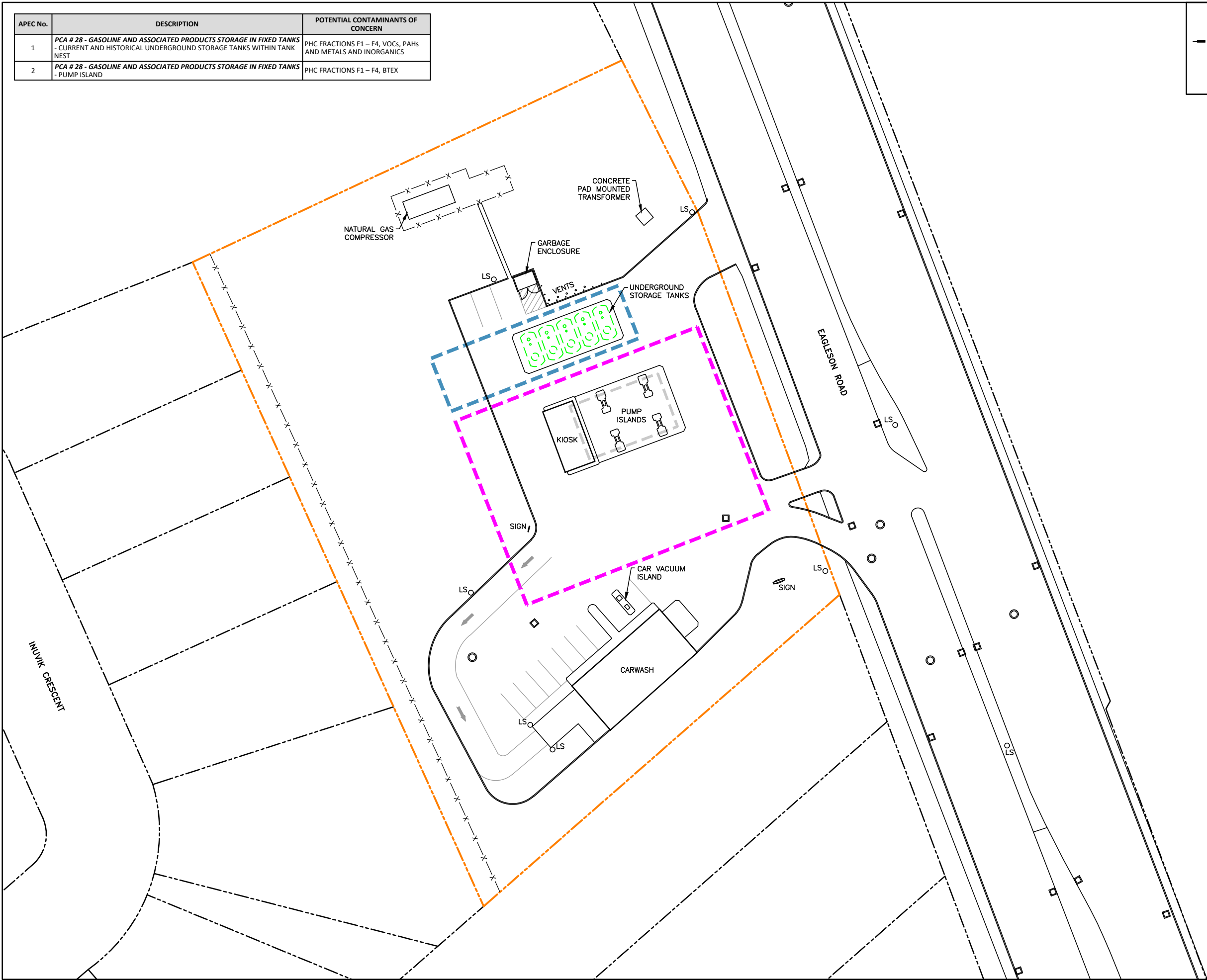
- LEGEND**
- (A) (1) LOCATION IDENTIFIER FOR POTENTIALLY CONTAMINATING ACTIVITY
- PHASE TWO PROPERTY LINE
- PROPERTY LINE
- 250m FROM PHASE ONE PROPERTY LINE

- NOTES**
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES



Client: SHELL CANADA PRODUCTS		Location: 106 EAGLESON ROAD (C10231), KANATA, ON	
Title: PHASE ONE CONCEPTUAL SITE MODEL SHOWING POTENTIALLY CONTAMINATING ACTIVITIES			
Drawn:	AG	Date: AUGUST 2025	Project No: 705228
Verified:	SA	Project Manager: CW	Dwg No: FIGURE 3

APEC No.	DESCRIPTION	POTENTIAL CONTAMINANTS OF CONCERN
1	PCA # 28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS - CURRENT AND HISTORICAL UNDERGROUND STORAGE TANKS WITHIN TANK NEST	PHC FRACTIONS F1 – F4, VOCs, PAHs AND METALS AND INORGANICS
2	PCA # 28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS - PUMP ISLAND	PHC FRACTIONS F1 – F4, BTEX



LEGEND

○ LS LIGHT STANDARD
○ MANHOLE
□ CATCH BASIN
- - - PHASE TWO PROPERTY LINE
- - - PROPERTY LINE
- - - EXISTING BUILDING
- - - INFRASTRUCTURE
- - - PUMP CANOPY
- X - X - FENCE LINE
- - - UNDERGROUND TANK

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

- - - APEC #1
- - - APEC #2

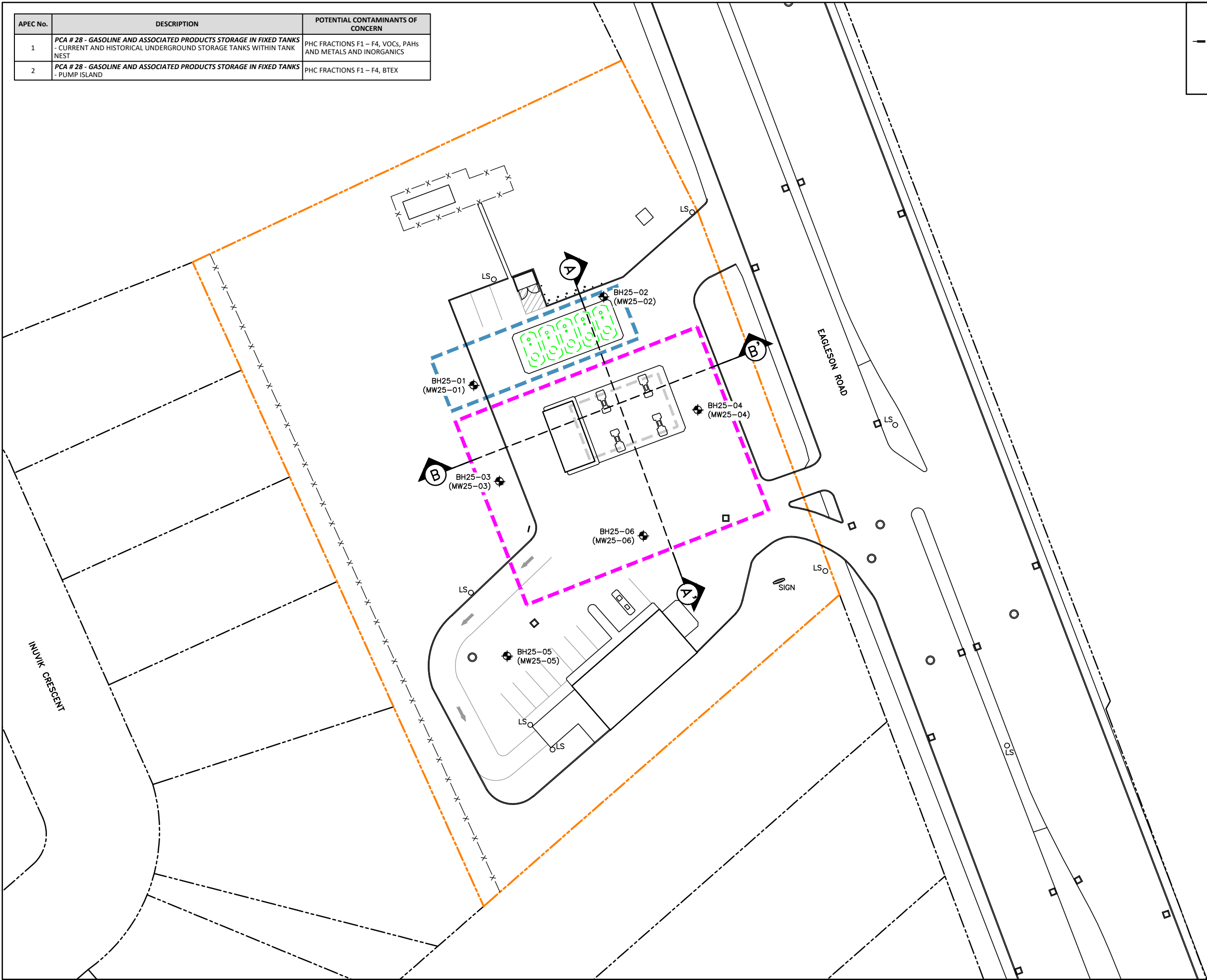


- NOTES**
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' : METRES



Client: SHELL CANADA PRODUCTS		Location: 106 EAGLESON ROAD (C10231), KANATA, ON	
Title: PHASE ONE CONCEPTUAL SITE MODEL SHOWING AREAS OF POTENTIAL ENVIRONMENTAL CONCERN			
Drawn:	AG	Date: AUGUST 2025	Project No: 705228
Verified:	SA	Project Manager: CW	Dwg No: FIGURE 4

APEC No.	DESCRIPTION	POTENTIAL CONTAMINANTS OF CONCERN
1	PCA # 28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS - CURRENT AND HISTORICAL UNDERGROUND STORAGE TANKS WITHIN TANK NEST	PHC FRACTIONS F1 – F4, VOCs, PAHs AND METALS AND INORGANICS
2	PCA # 28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS - PUMP ISLAND	PHC FRACTIONS F1 – F4, BTEX



- LEGEND**
- LS LIGHT STANDARD
 - MANHOLE
 - CATCH BASIN
 - ⊕ BOREHOLE/MONITORING WELL
 - ⌒ CROSS SECTIONAL LINE
 - PHASE TWO PROPERTY LINE
 - PROPERTY LINE
 - EXISTING BUILDING
 - INFRASTRUCTURE
 - PUMP CANOPY
 - X—X— FENCE LINE
 - UNDERGROUND TANK
- AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)**
- APEC #1
 - APEC #2



- NOTES**
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' : METRES



Client: SHELL CANADA PRODUCTS		Location: 106 EAGLESON ROAD (C10231), KANATA, ON	
Title: SAMPLING LOCATIONS AND CROSS SECTIONAL LINES			
Drawn:	AG	Date: AUGUST 2025	Project No: 705228
Verified:	SA	Project Manager: CW	Dwg No: FIGURE 5



N

○LS

LIGHT STANDARD

⊙

MANHOLE

□

CATCH BASIN

⊕

BOREHOLE/MONITORING WELL

➔

INTERPRETED OVERBURDEN HORIZONTAL
GROUNDWATER FLOW DIRECTION

97.00

INTERPRETED WATER LEVEL ELEVATION
CONTOUR (m)

PHASE TWO PROPERTY LINE

PROPERTY LINE

EXISTING BUILDING

INFRASTRUCTURE

PUMP CANOPY

—X—X—

FENCE LINE

UNDERGROUND TANK

MW25-03

IDENTIFICATION

95.97

WATER LEVEL ELEVATION (m)
(JULY 29, 2025)

SCALE 1:600

0

12

24m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED,
PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND
COLOURS
3. 'm' : METRES

AtkinsRéalis

Client:
SHELL CANADA PRODUCTS

Location:
106 EAGLESON ROAD (C10231),
KANATA, ON

Title:

INTERPRETED OVERBURDEN HORIZONTAL
GROUNDWATER FLOW DIRECTION (JULY 2025)

Drawn:

AG

Date:

AUGUST 2025

Project No:

705228

Verified:

SA

Project Manager:

CW

Dwg No:

FIGURE 6

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2)\005f06_705228.DWG



oLS

○

□

⊕

97.00

LIGHT STANDARD

MANHOLE

CATCH BASIN

BOREHOLE/MONITORING WELL

INTERPRETED BEDROCK HORIZONTAL GROUNDWATER FLOW DIRECTION

INTERPRETED WATER LEVEL ELEVATION CONTOUR (m)

PHASE TWO PROPERTY LINE

PROPERTY LINE

EXISTING BUILDING

INFRASTRUCTURE

PUMP CANOPY

FENCE LINE

UNDERGROUND TANK

MW25-04	IDENTIFICATION
96.99	WATER LEVEL ELEVATION (m) (JULY 29, 2025)

SCALE 1:600

01224m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. 'm' : METRES

Client:
SHELL CANADA PRODUCTS

Location:
106 EAGLESON ROAD (C10231),
KANATA, ON

Title:
**INTERPRETED BEDROCK HORIZONTAL
GROUNDWATER FLOW DIRECTION (JULY 2025)**

Drawn:
AG

Date:
AUGUST 2025

Project No:
705228

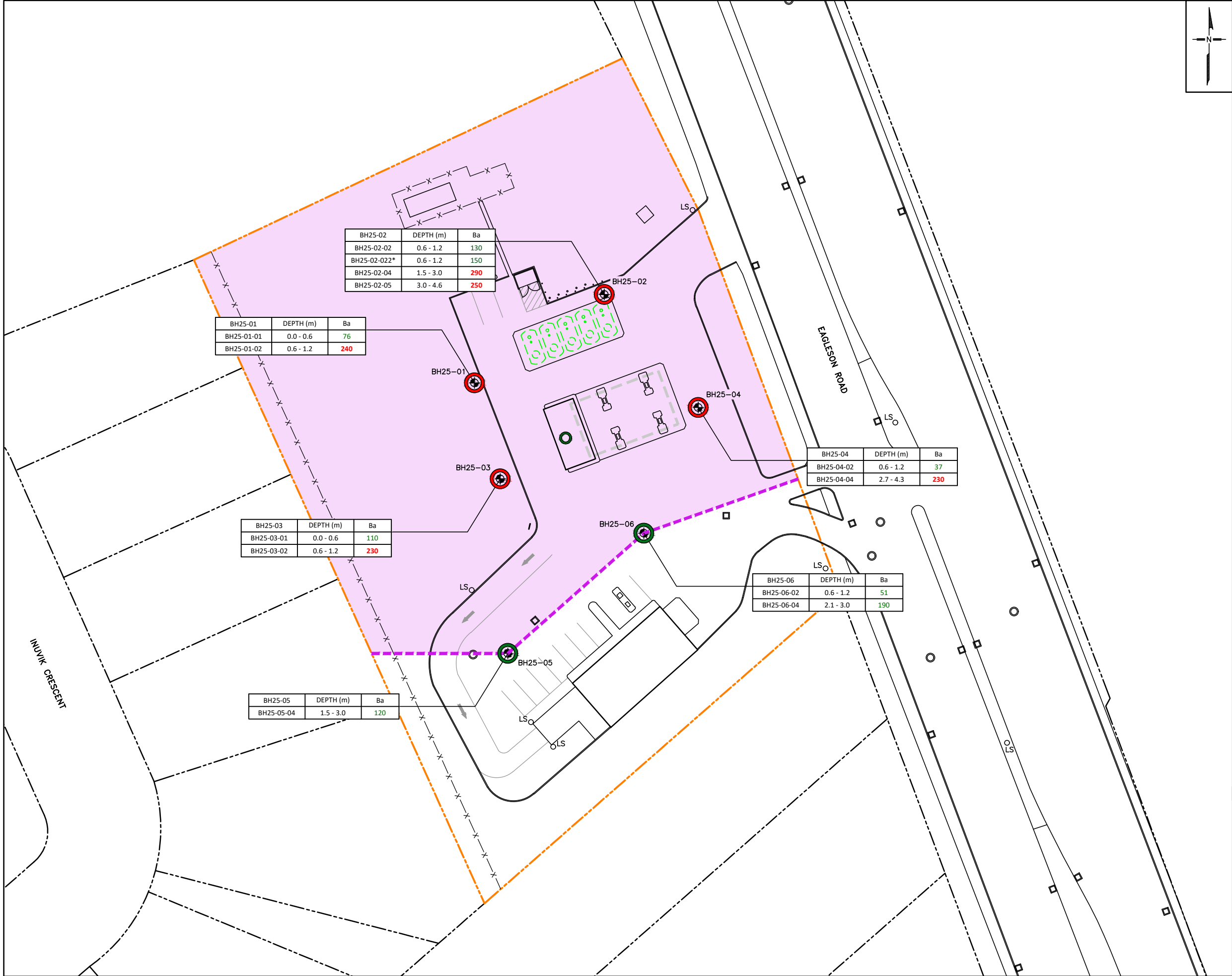
Verified:
SA

Project Manager:
CW

Dwg No:
FIGURE 7

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2)\005P07_705228.DWG



○LS

LIGHT STANDARD

○

MANHOLE

□

CATCH BASIN

⊕

BOREHOLE/MONITORING WELL

○

LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED

○

LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED

□

INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)

PHASE TWO PROPERTY LINE

PROPERTY LINE

EXISTING BUILDING

INFRASTRUCTURE

PUMP CANOPY

-X-X-

FENCE LINE

UNDERGROUND TANK

PARAMETERS	ABBREVIATION	STANDARDS
BARIUM	Ba	220

STANDARDS:

1. TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30 M OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/PARKLAND/INSTITUTIONAL/INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE (MOE, 2011)

GENERAL NOTES:

1. ALL CONCENTRATIONS IN MICROGRAMS/GRAM (µg/g) BY DRY WEIGHT BASIS

2. '*' : FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE

SCALE 1:600

01224m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE

2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

3. 'm' : METRES

AtkinsRéalis

Client: SHELL CANADA PRODUCTS

Location: 106 EAGLESON ROAD (C10231), KANATA, ON

Title: SOIL ANALYTICAL RESULTS (METALS)

Drawn: AG

Date: AUGUST 2025

Project No: 705228

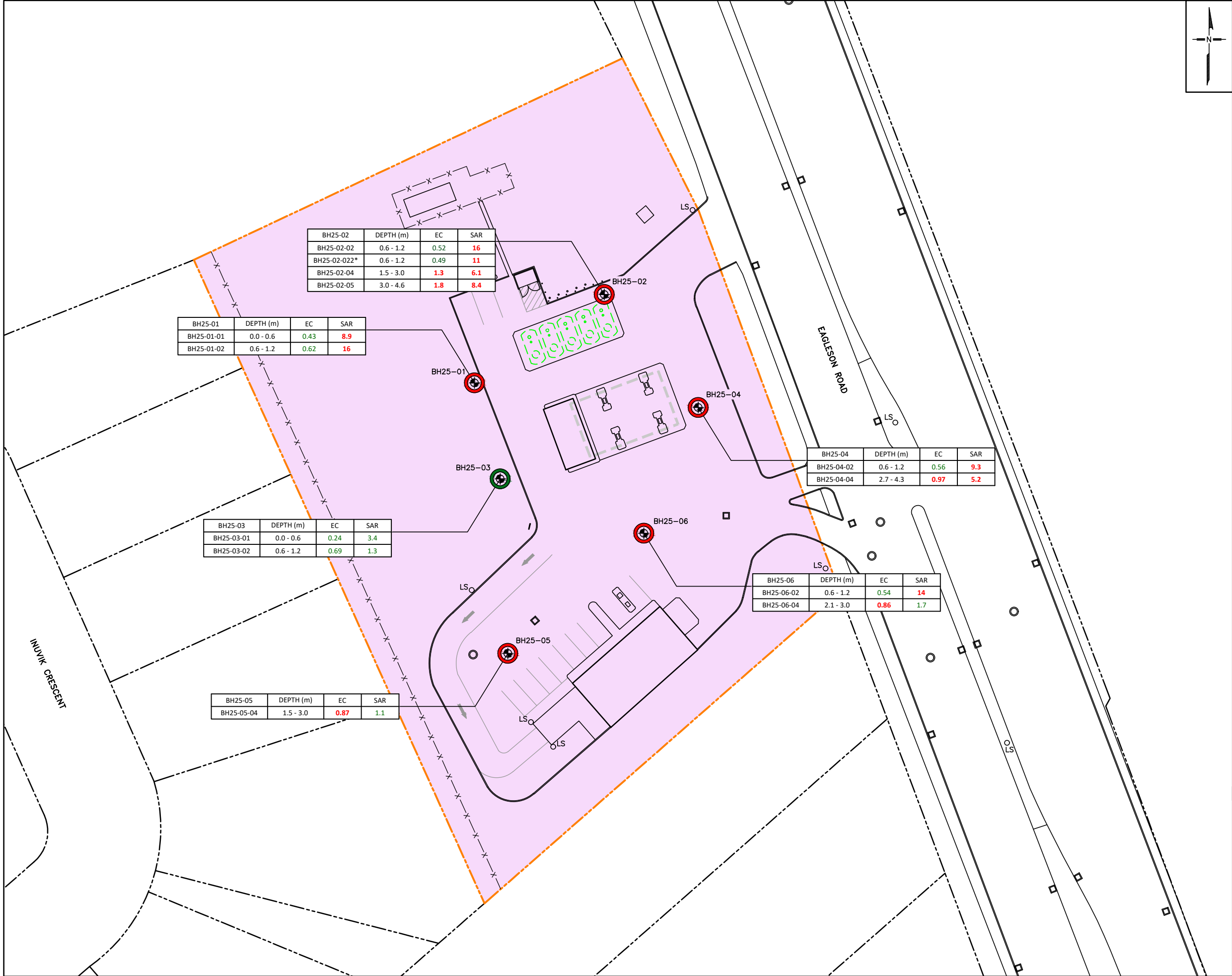
Verified: SA

Project Manager: CW

Dwg No:

FIGURE 8

PAGE FORMAT: 11x17



○LS

○

□

⊕

○

○

□

LIGHT STANDARD

MANHOLE

CATCH BASIN

BOREHOLE/MONITORING WELL

LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED

LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED

INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)

PHASE TWO PROPERTY LINE

PROPERTY LINE

EXISTING BUILDING

INFRASTRUCTURE

PUMP CANOPY

FENCE LINE

UNDERGROUND TANK

PARAMETERS

UNITS

ABBREVIATION

STANDARDS

ELECTRICAL CONDUCTIVITY

mS/cm

EC

0.7

SODIUM ADSORPTION RATIO

-

SAR

5

STANDARDS:

1. TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30 M OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/PARKLAND/INSTITUTIONAL/ INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE (MOE, 2011)

GENERAL NOTES:

1. 'mS/cm': MILLISIEMENS/CENTIMETRE

2. '*': FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE

SCALE 1:600

0

12

24m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE

2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

3. 'm' : METRES

AtkinsRéalis

Client:

SHELL CANADA PRODUCTS

Location:

106 EAGLESON ROAD (C10231), KANATA, ON

Title:

SOIL ANALYTICAL RESULTS (EC AND SAR)

Drawn:

AG

Date:

AUGUST 2025

Project No:

705228

Verified:

SA

Project Manager:

CW

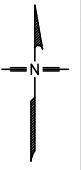
Dwg No:

FIGURE 9

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2) \005F09_705228.DWG





LEGEND

○LS	LIGHT STANDARD
○	MANHOLE
□	CATCH BASIN
⊕	BOREHOLE/MONITORING WELL
○	LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
○	LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
---	PHASE TWO PROPERTY LINE
---	PROPERTY LINE
---	EXISTING BUILDING
---	INFRASTRUCTURE
---	PUMP CANOPY
-X-X-	FENCE LINE
---	UNDERGROUND TANK

SCALE 1:600



NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. STANDARD : TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30m OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/PARKLAND/ INSTITUTIONAL/INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE (MOE, 2011)
4. 'm' : METRES



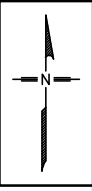
Client: SHELL CANADA PRODUCTS	Location: 106 EAGLESON ROAD (C10231), KANATA, ON	
Title: SOIL ANALYTICAL RESULTS (BTEX AND PHCs)		
Drawn: AG	Date: AUGUST 2025	Project No: 705228
Verified: SA	Project Manager: CW	Dwg No: FIGURE 10

FIGURE 10

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2)\005F10_705228.DWG





LEGEND

○ LS	LIGHT STANDARD
○	MANHOLE
□	CATCH BASIN
⊕	BOREHOLE/MONITORING WELL
○ (green border)	LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
○ (red border)	LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
---	PHASE TWO PROPERTY LINE
---	PROPERTY LINE
---	EXISTING BUILDING
---	INFRASTRUCTURE
---	PUMP CANOPY
-X-X-	FENCE LINE
---	UNDERGROUND TANK

SCALE 1:600



NOTES

- SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
- INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
- STANDARD : TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30m OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/PARKLAND/ INSTITUTIONAL/INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE (MOE, 2011)
- 'm' : METRES



Client: SHELL CANADA PRODUCTS	Location: 106 EAGLESON ROAD (C10231), KANATA, ON
----------------------------------	--

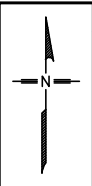
Title: SOIL ANALYTICAL RESULTS (VOCs)		
Drawn: AG	Date: AUGUST 2025	Project No: 705228
Verified: SA	Project Manager: CW	Dwg No: FIGURE 11

FIGURE 11

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD, KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2)\005F11_705228.DWG





LEGEND

○LS	LIGHT STANDARD
○	MANHOLE
□	CATCH BASIN
⊕	BOREHOLE/MONITORING WELL
○ (green border)	LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
○ (red border)	LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
---	PHASE TWO PROPERTY LINE
---	PROPERTY LINE
---	EXISTING BUILDING
---	INFRASTRUCTURE
---	PUMP CANOPY
-X-X-	FENCE LINE
---	UNDERGROUND TANK

SCALE 1:600



NOTES

- SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
- INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
- STANDARD : TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30m OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR RESIDENTIAL/PARKLAND/ INSTITUTIONAL/INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE (MOE, 2011)
- 'm' : METRES



Client: SHELL CANADA PRODUCTS	Location: 106 EAGLESON ROAD (C10231), KANATA, ON	
Title: SOIL ANALYTICAL RESULTS (PAHs)		
Drawn: AG	Date: AUGUST 2025	Project No: 705228
Verified: SA	Project Manager: CW	Dwg No: FIGURE 12

FIGURE 12

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD, KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2)\005F12_705228.DWG



LEGEND

○LS	LIGHT STANDARD
○	MANHOLE
□	CATCH BASIN
⊕	MONITORING WELL
○	LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE MET STANDARDS FOR ALL PARAMETERS THAT WERE ANALYSED
○	LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE EXCEEDED STANDARDS FOR AT LEAST ONE PARAMETER THAT WAS ANALYSED
---	PHASE TWO PROPERTY LINE
---	PROPERTY LINE
---	EXISTING BUILDING
---	INFRASTRUCTURE
---	PUMP CANOPY
-X-X-	FENCE LINE
---	UNDERGROUND TANK

SCALE 1:600

0 12 24m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. STANDARD : TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30 M OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR ALL TYPES OF PROPERTY USE (MOE, 2011)
4. 'm' : METRES

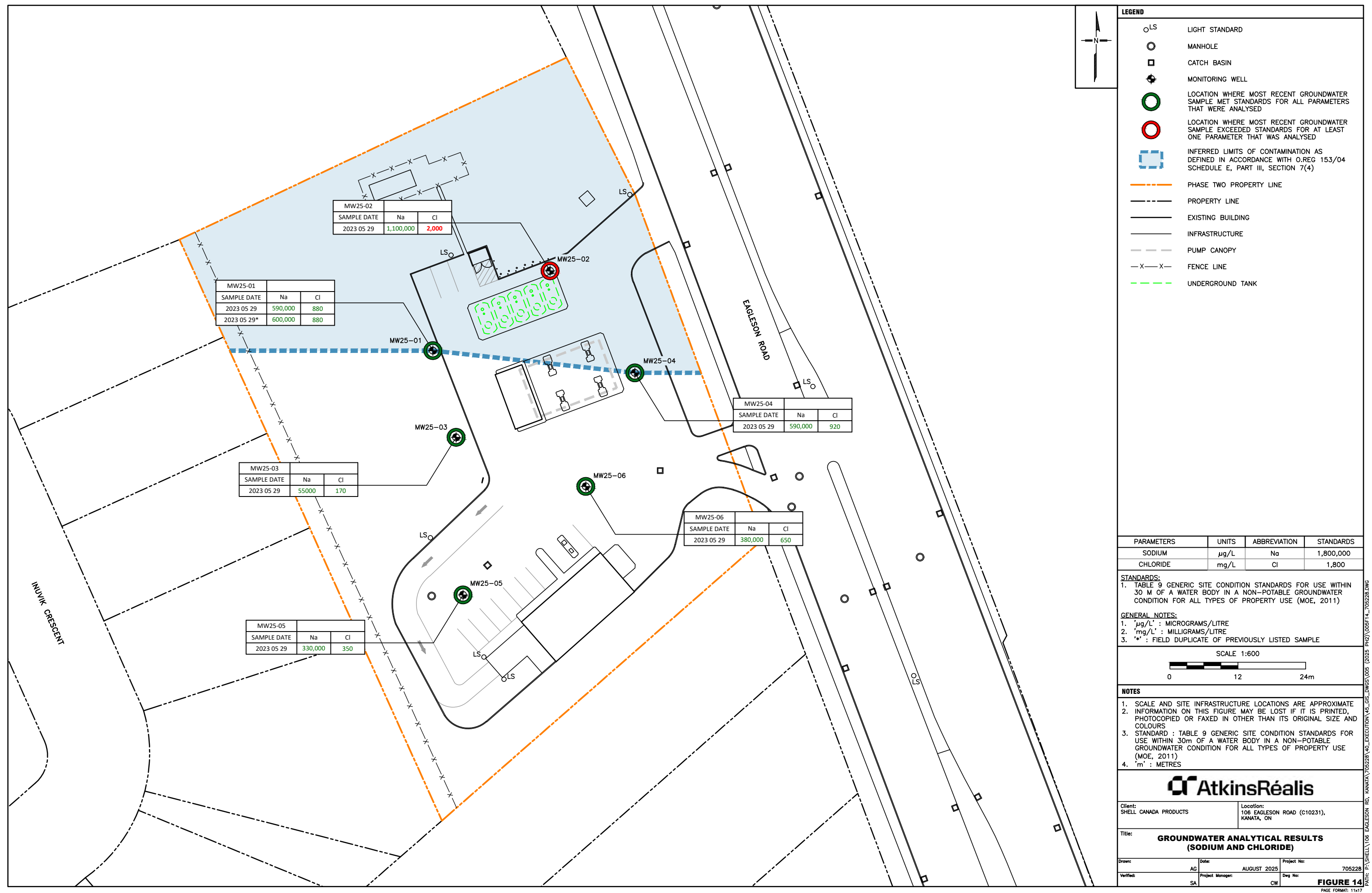
AtkinsRéalis

Client: SHELL CANADA PRODUCTS	Location: 106 EAGLESON ROAD (C10231), KANATA, ON
----------------------------------	--

Title: GROUNDWATER ANALYTICAL RESULTS (METALS)		
Drawn: AG	Date: AUGUST 2025	Project No: 705228
Verified: SA	Project Manager: CW	Dwg No: FIGURE 13

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2)\05F13_705228.DWG





N

○LS

LIGHT STANDARD

○

MANHOLE

□

CATCH BASIN

⊕

MONITORING WELL

○

LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE MET STANDARDS FOR ALL PARAMETERS THAT WERE ANALYSED

○

LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE EXCEEDED STANDARDS FOR AT LEAST ONE PARAMETER THAT WAS ANALYSED

PHASE TWO PROPERTY LINE

PROPERTY LINE

EXISTING BUILDING

INFRASTRUCTURE

PUMP CANOPY

-X-X-

FENCE LINE

UNDERGROUND TANK

SCALE 1:600

0

12

24m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE

2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

3. STANDARD : TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30m OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR ALL TYPES OF PROPERTY USE (MOE, 2011)

4. 'm' : METRES

AtkinsRéalis

Client:

SHELL CANADA PRODUCTS

Location:

106 EAGLESON ROAD (C10231),
KANATA, ON

Title:

**GROUNDWATER ANALYTICAL RESULTS
(BTEX AND PHCs)**

Drawn:

AG

Date:

AUGUST 2025

Project No:

705228

Verified:

SA

Project Manager:

CW

Dwg No:

FIGURE 15

PAGE FORMAT: 11x17



LS

MANHOLE

CATCH BASIN

MONITORING WELL

LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE MET STANDARDS FOR ALL PARAMETERS THAT WERE ANALYSED

LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE EXCEEDED STANDARDS FOR AT LEAST ONE PARAMETER THAT WAS ANALYSED

PHASE TWO PROPERTY LINE

PROPERTY LINE

EXISTING BUILDING

INFRASTRUCTURE

PUMP CANOPY

FENCE LINE

UNDERGROUND TANK

SCALE 1:600

0

12

24m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE

2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

3. STANDARD : TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30m OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR ALL TYPES OF PROPERTY USE (MOE, 2011)

4. 'm' : METRES

AtkinsRéalis

Client:

SHELL CANADA PRODUCTS

Location:

106 EAGLESON ROAD (C10231), KANATA, ON

Title:

GROUNDWATER ANALYTICAL RESULTS (VOCs)

Drawn:

AG

Date:

AUGUST 2025

Project No:

705228

Verified:

SA

Project Manager:

CW

Dwg No:

FIGURE 16

PAGE FORMAT: 11x17



LEGEND

- LS LIGHT STANDARD
- MANHOLE
- CATCH BASIN
- ⊕ MONITORING WELL
- LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE MET STANDARDS FOR ALL PARAMETERS THAT WERE ANALYSED
- LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE EXCEEDED STANDARDS FOR AT LEAST ONE PARAMETER THAT WAS ANALYSED
- PHASE TWO PROPERTY LINE
- PROPERTY LINE
- EXISTING BUILDING
- INFRASTRUCTURE
- PUMP CANOPY
- X-X- FENCE LINE
- - - UNDERGROUND TANK

SCALE 1:600

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. STANDARD : TABLE 9 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30m OF A WATER BODY IN A NON-POTABLE GROUNDWATER CONDITION FOR ALL TYPES OF PROPERTY USE (MOE, 2011)
4. 'm' : METRES

Client: SHELL CANADA PRODUCTS	Location: 106 EAGLESON ROAD (C10231), KANATA, ON
----------------------------------	--

Title: GROUNDWATER ANALYTICAL RESULTS (PAHs)		
Drawn: AG	Date: AUGUST 2025	Project No: 705228
Verified: SA	Project Manager: CW	Dwg No: FIGURE 17

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2)\05F17_705228.DWG

LEGEND



GROUNDWATER ELEVATIONS
(JULY 29, 2025)



MONITORING WELL



LOCATION WHERE ALL SOIL SAMPLES ANALYSED
MET THE SELECTED STANDARD FOR ALL
PARAMETERS ANALYSED



LOCATION WHERE AT LEAST ONE SOIL SAMPLE
ANALYSED EXCEEDED THE SELECTED STANDARD
FOR AT LEAST ONE PARAMETER ANALYSED



FILL



NATIVE SOIL



BEDROCK



INFERRED LIMITS OF CONTAMINATION AS
DEFINED IN ACCORDANCE WITH O.REG 153/04
SCHEDULE E, PART III, SECTION 7(4)

SCALE 1:600

0

12

24m

NOTES

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE

2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

3. 'm' : METRES



Client:
SHELL CANADA PRODUCTS

Location:
106 EAGLESON ROAD (C10231),
KANATA, ON

Title:
**GENERALISED GEOLOGICAL CROSS-SECTION
(A-A' AND B-B') WITH SOIL ANALYTICAL RESULTS
FOR BARIUM**

Drawn:
AG

Date:
AUGUST 2025

Project No:
705228

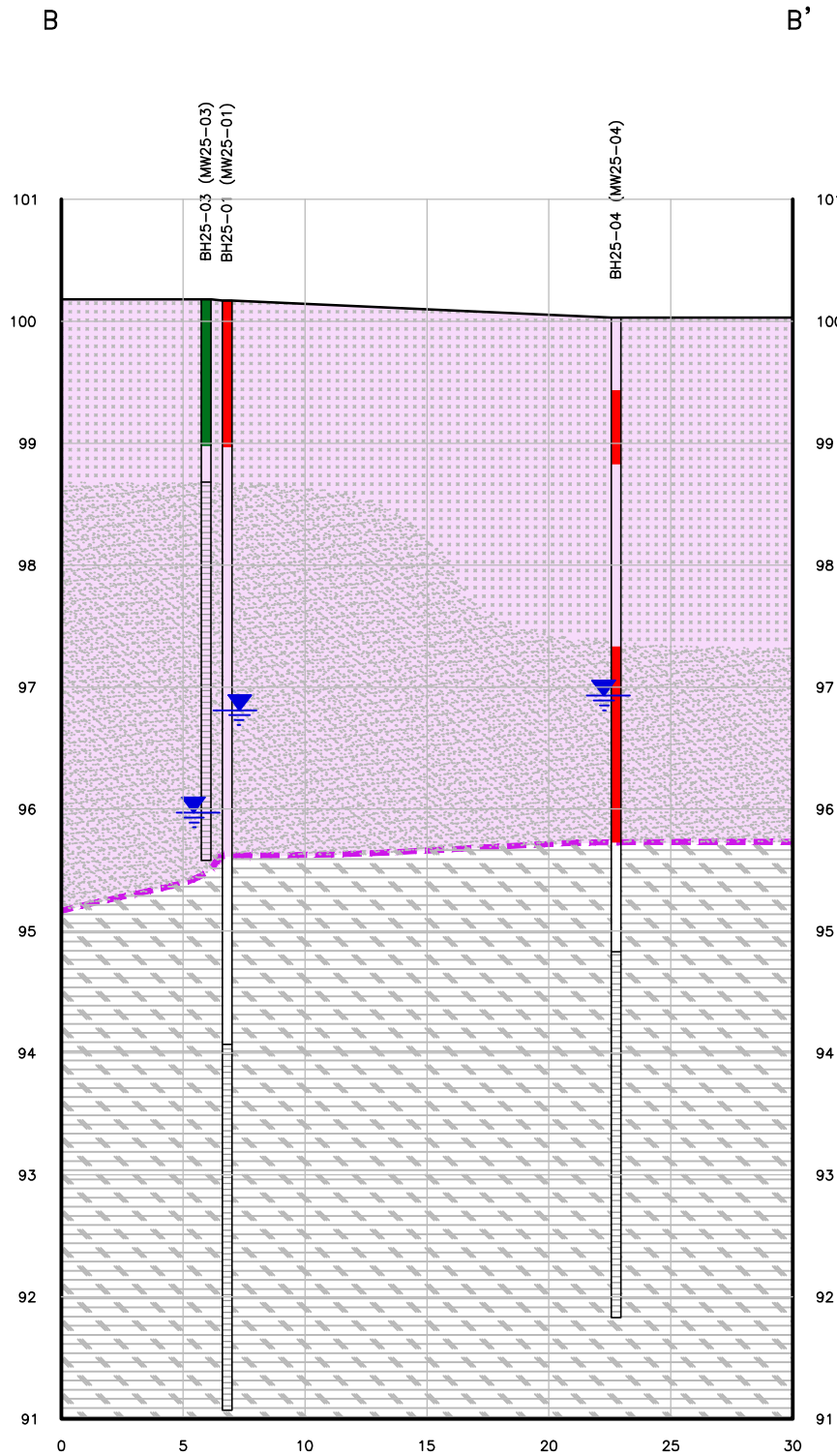
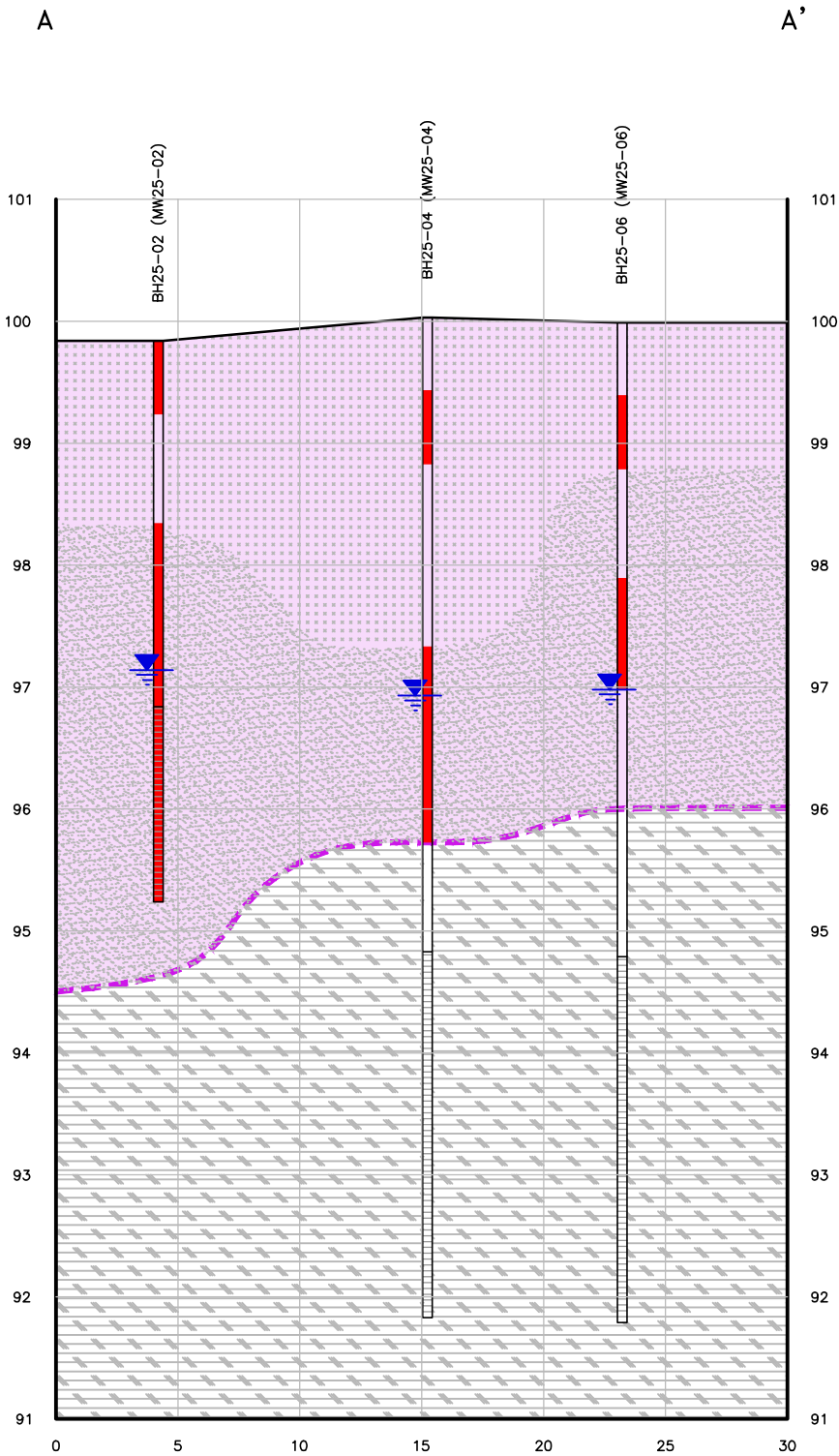
Verified:
SA

Project Manager:
CW

Dwg No:
FIGURE 18

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228_40_EXECUTION\40_OIS_DWG\005 (2025 PH2)\005f18_705228.DWG

PAGE FORMAT: 11x17



LEGEND

- GROUNDWATER ELEVATIONS (JULY 29, 2025)
- MONITORING WELL
- LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED
- LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED
- FILL
- NATIVE SOIL
- BEDROCK
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)

SCALE 1:600

0 12 24m

NOTES

- SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
- INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
- 'm' : METRES

AtkinsRéalis

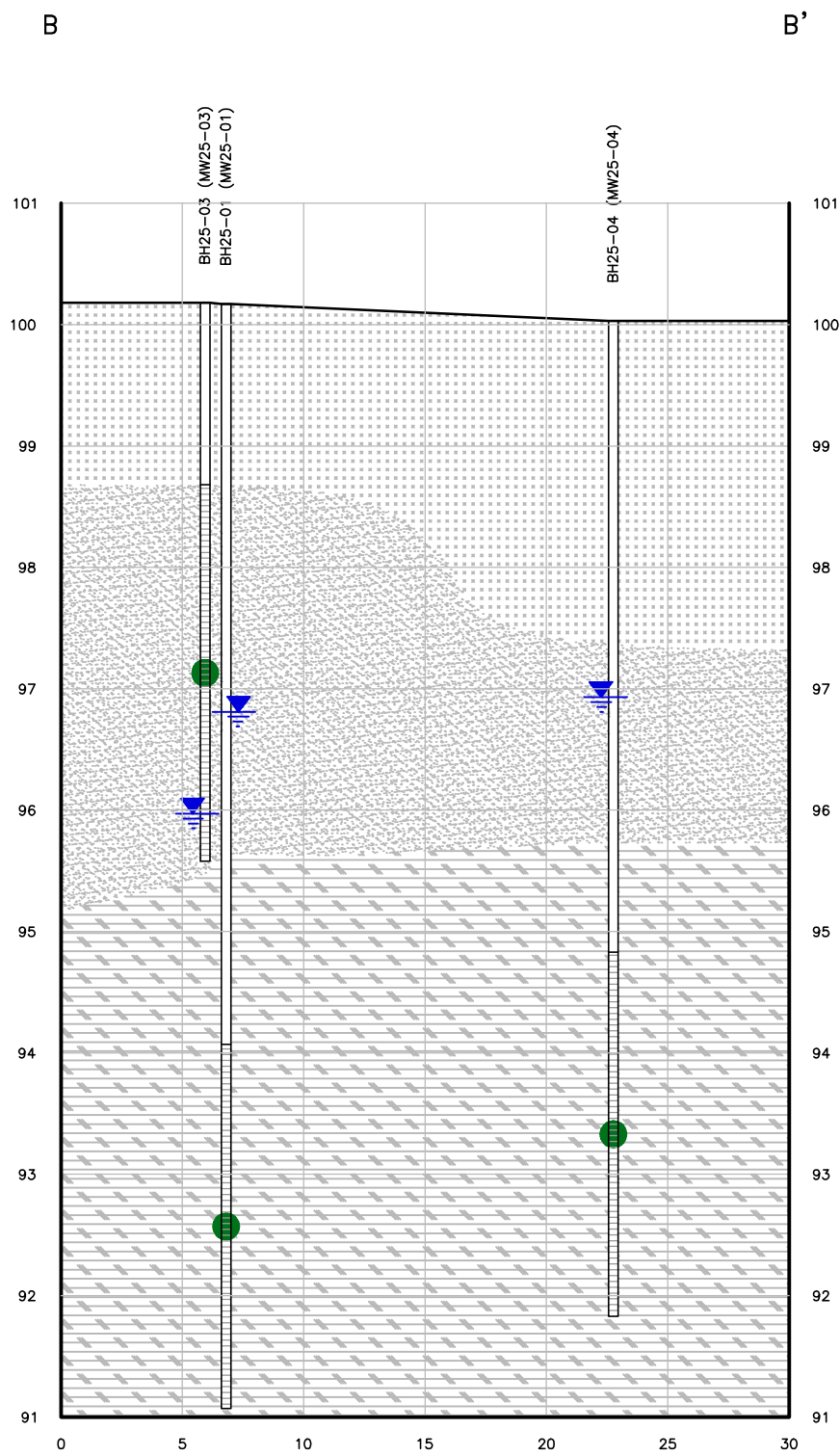
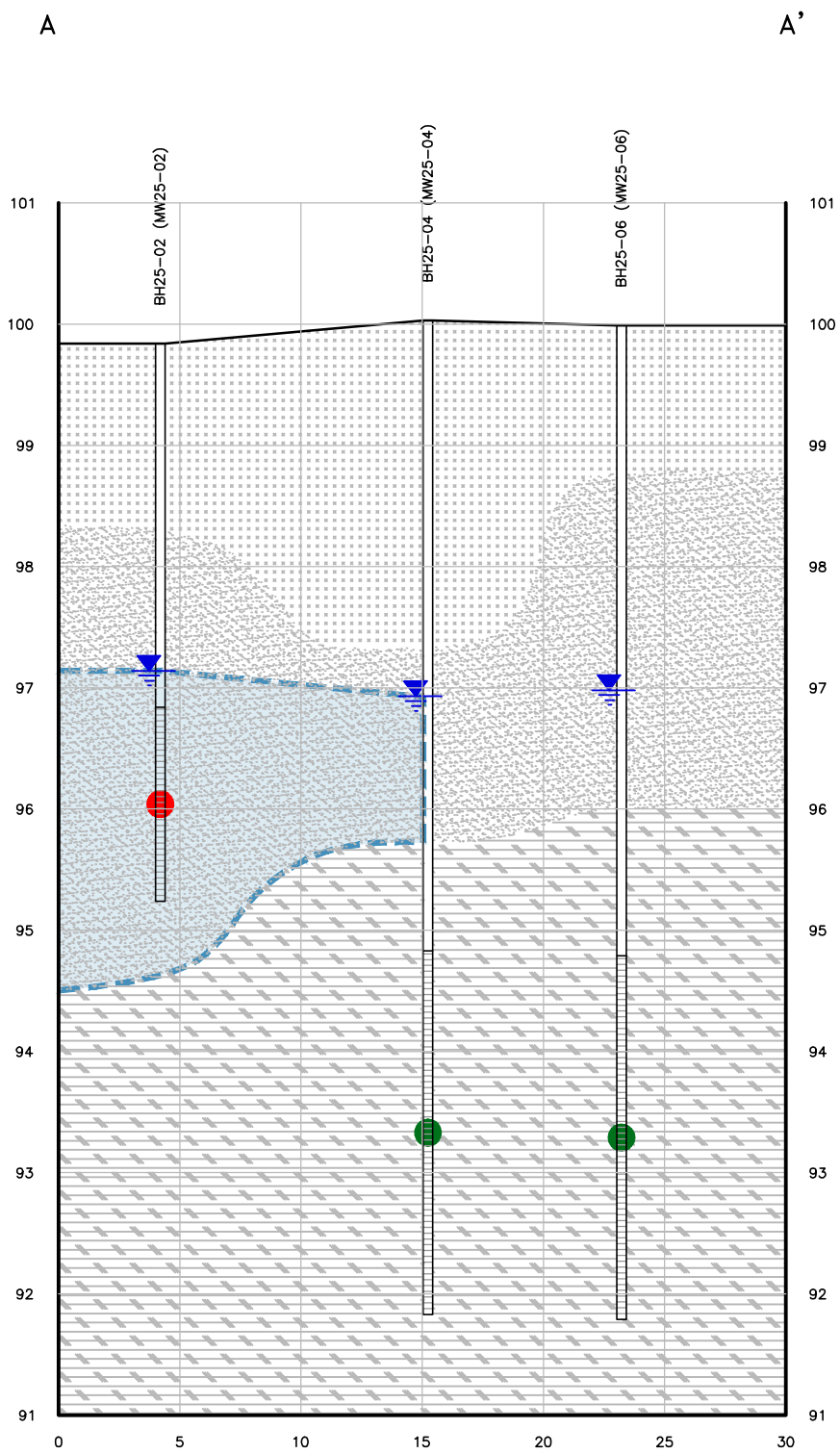
Client: SHELL CANADA PRODUCTS Location: 106 EAGLESON ROAD (C10231), KANATA, ON

Title: **GENERALISED GEOLOGICAL CROSS-SECTION (A-A' AND B-B') WITH SOIL ANALYTICAL RESULTS FOR EC/SAR**

Drawn: AG	Date: AUGUST 2025	Project No: 705228
Verified: SA	Project Manager: CW	Dwg No: FIGURE 19

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\40_OIS_DWG\005 (2025 PH2)\005F19_705228.DWG



LEGEND

- GROUNDWATER ELEVATIONS (JULY 29, 2025)
- MONITORING WELL
- LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE MET STANDARDS FOR ALL PARAMETERS THAT WERE ANALYSED
- LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE EXCEEDED STANDARDS FOR AT LEAST ONE PARAMETER THAT WAS ANALYSED
- FILL
- NATIVE SOIL
- BEDROCK
- INFERRED LIMITS OF CONTAMINATION AS DEFINED IN ACCORDANCE WITH O.REG 153/04 SCHEDULE E, PART III, SECTION 7(4)

SCALE 1:600

0 12 24m

NOTES

- SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
- INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
- 'm' : METRES

AtkinsRéalis

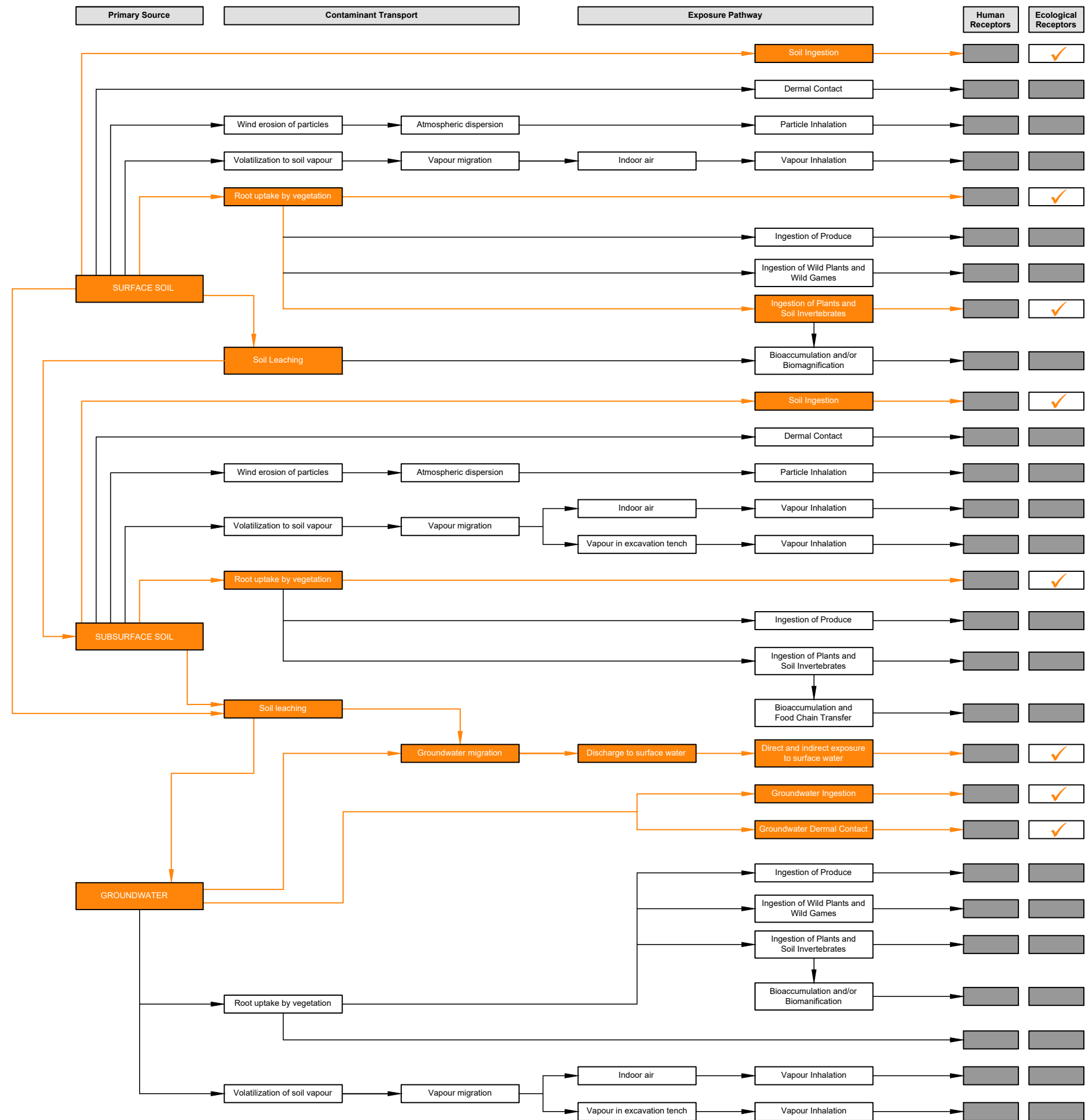
Client: SHELL CANADA PRODUCTS Location: 106 EAGLESON ROAD (C10231), KANATA, ON

Title: **GENERALISED GEOLOGICAL CROSS-SECTION (A-A' AND B-B') WITH SOIL ANALYTICAL RESULTS FOR CHLORIDE**

Drawn: AG	Date: AUGUST 2025	Project No: 705228
Verified: SA	Project Manager: CW	Dwg No: FIGURE 20

PAGE FORMAT: 11x17

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\40_OIS_DWG\005\005 (2025 PH2)\005F20_705228.DWG



LEGEND

POTENTIALLY OPERABLE PATHWAY

INOPERABLE PATHWAY

Client:
SHELL CANADA PRODUCTS

Location:
106 EAGLESON ROAD (C10231),
KANATA, ON

Title:
CONCEPTUAL SITE MODEL

Drawn:
AG

Date:
AUGUST 2025

Project No:
705228

Verified:
SA

Project Manager:
CW

Dwg No:
FIGURE 21

PATH: P:\SHELL\106 EAGLESON RD., KANATA\705228\40_EXECUTION\45_OIS_DWG\005 (2025 PH2)\005F21_705228.DWG

PAGE FORMAT: 11x17

Tables

TABLE 1: Ground Water Monitoring Results
106 Eagleson Road, Kanata, Ontario

Monitoring Location	Top of Riser Elevation ¹ (masl)	Ground Surface Elevation (masl)	Screen Interval (mbgs)	Depth to Bottom (mbgs)	Date (yyyy/mm/dd)	Well Riser Headspace Vapour Reading ²	Apparent Product Thickness ³ (mm)	Groundwater Depth (mbtr)	Groundwater Depth (mbgs)	Groundwater Elevation (masl)
MW25-01	100.05	100.17	6.1 - 9.1	NM	2025/07/29	NM	ND	3.24	3.36	96.81
MW25-02	99.55	99.84	3.1 - 4.6	NM	2025/07/29	NM	ND	2.41	2.70	97.14
MW25-03	99.97	100.18	2.9 - 4.5	NM	2025/07/29	NM	ND	4.00	4.21	95.97
MW25-04	99.97	100.03	5.2 - 8.2	NM	2025/07/29	NM	ND	2.98	3.04	96.93
MW25-05	99.57	99.68	2.0 - 3.5	NM	2025/07/29	NM	ND	3.10	3.21	96.47
MW25-06	99.86	99.99	5.2 - 8.2	NM	2025/07/29	NM	ND	2.89	3.02	96.97

NOTES:

mm - millimetres

masl - metres above sea level

mbgs - metres below ground surface

mbtr - metres below top of riser

ppmv - parts per million by volume (relative to hexane)

NM - Not Measured/Monitored

ND - Not Detected

CNL - Could Not Locate

¹ Elevations measured relative to a site datum assigned a temporary elevation of 100.00 m (front of concrete base for air pump).

² Organic Vapour Meter (OVM) readings

³ Free Product specific gravity assumed to be 0.80 g/mL. (if applicable)

TABLE 2: Soil Analytical Results – Grain Size
106 Eagleson Road, Kanata, Ontario

Sample Location			BH25-01	BH25-04
Laboratory Sample ID			ATGQ62	ATJK94
Sample ID			BH25-01-01	BH25-04-04
Sampling Date (yyyy/mm/dd)			2025/07/22	2025/07/25
Depth Interval (mbgs)			0.0 - 0.6	2.7 - 4.3
Field Screen (ppmv)			<5	<5
Parameter	RDL	Units		
Grain Size				
Grain Size	0	%	COARSE	FINE
Coarse (>0.075mm)	1	%	52	18
Fines (<0.075mm)	1	%	48	82

Footnotes

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
 Additional terms may be defined within the body of the report.
 RDL - Reportable Detection Limit, unless otherwise noted
 < - Denotes concentration less than indicated detection limit
 ppmv - parts per million by volume (relative to hexane)

TABLE 3: Soil Analytical Results for General Chemistry and Total Metals
106 Eagleson Road, Kanata, Ontario

SNC-Lavalin Sample ID Laboratory Sample ID Sample Location Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) Field Screen (ppmv)			Table 9 ¹ Standard R/P/I/C/C	BH25-01 ATGQ62 BH25-01-01 2025/07/22 0.0 - 0.6 <5	BH25-01 ATGQ63 BH25-01-02 2025/07/22 0.6 - 1.2 <5	BH25-02 ATGQ70 BH25-02-02 2025/07/22 0.6 - 1.2 <5	BH25-02 ATGQ71 BH25-02-022 2025/07/22 - Duplicate of BH25-02	BH25-02 ATJK95 BH25-02-04 2025/07/22 1.5 - 3.0 <5	BH25-02 ATJK96 BH25-02-05 2025/07/22 3.0 - 4.6 <5	BH25-03 ATGQ65 BH25-03-01 2025/07/22 0.0 - 0.6 <5	BH25-03 ATGQ66 BH25-03-02 2025/07/22 0.6 - 1.2 <5	BH25-04 ATGQ67 BH25-04-02 2025/07/25 0.6 - 1.2 <5	BH25-04 ATJK94 BH25-04-04 2025/07/25 2.7 - 4.3 <5	BH25-05 ATJF97 BH25-05-04 2025/07/22 1.5 - 3.0 <5	BH25-06 ATGQ69 BH25-06-02 2025/07/22 0.6 - 1.2 <5	BH25-06 ATJF98 BH25-06-04 2025/07/22 2.1 - 3.0 -	
Parameter	RDL	Units															
General Chemistry																	
Cyanide (CN-)	0.01	µg/g	0.051	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Electrical Conductivity	0.002	mS/cm	0.7	0.43	0.62	0.52	0.49	1.3	1.8	0.24	0.69	0.56	0.97	0.87	0.54	0.86	
pH ²	-	pH	9 (5-9)	7.62	7.73	7.77	7.85	7.6	7.83	7.52	7.6	7.79	7.76	7.77	7.78	7.46	
Sodium Adsorption Ratio	-	None	5	8.9	16	16	11	6.1	8.4	3.4	1.3	9.3	5.2	1.1	14	1.7	
Moisture	1	%	na	11	25	12	13	28	32	15	19	11	19	18	11	22	
Total Metals																	
Antimony	0.2	µg/g	1.3	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Arsenic	1	µg/g	18	< 1.0	1.1	1.3	1.5	< 1.0	1.1	1.1	1.1	< 1.0	1.6	1.9	1.4	< 1.0	
Barium	0.5	µg/g	220	76	240	130	150	290	250	110	230	37	230	120	51	190	
Beryllium	0.2	µg/g	2.5	0.3	0.64	0.49	0.49	0.83	0.57	0.36	0.66	0.24	0.58	0.4	0.37	0.57	
Boron	5	µg/g	36	< 5.0	5.2	5.8	6.6	< 5.0	6.2	< 5.0	< 5.0	< 5.0	5.4	< 5.0	< 5.0	< 5.0	
Boron (Hot Water Soluble)	0.05	µg/g	1.5	0.31	0.068	0.18	0.18	0.1	0.097	0.2	0.12	0.17	0.4	0.12	0.2	0.26	
Cadmium	0.1	µg/g	1.2	0.19	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chromium (total)	1	µg/g	70	19	55	33	35	68	36	25	50	10	46	27	17	41	
Chromium (VI)	0.18	µg/g	0.66	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	
Cobalt	0.1	µg/g	22	5.4	14	9.3	9.7	17	10	6.8	12	4.1	13	7	5.8	11	
Copper	0.5	µg/g	92	11	27	18	20	34	23	14	23	7	24	16	8.8	23	
Lead	1	µg/g	120	13	7.4	6.7	6.8	6.4	5.1	9.9	7.8	4.1	5.9	4.3	6.9	5.3	
Mercury	0.05	µg/g	0.27	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
Molybdenum	0.5	µg/g	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.63	< 0.50	< 0.50	< 0.50	1.5	< 0.50	< 0.50	0.56	
Nickel	0.5	µg/g	82	10	32	19	21	39	22	14	28	7	26	15	9.5	23	
Selenium	0.5	µg/g	1.5	< 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	
Silver	0.2	µg/g	0.5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
Thallium	0.05	µg/g	1	0.083	0.28	0.22	0.22	0.33	0.2	0.12	0.25	0.12	0.25	0.15	0.12	0.21	
Uranium	0.05	µg/g	2.5	0.46	0.59	0.63	0.6	0.59	1.2	0.53	0.63	0.41	0.67	0.54	0.48	0.79	
Vanadium	5	µg/g	86	32	63	47	48	79	52	38	59	25	58	35	39	55	
Zinc	5	µg/g	290	52	77	49	52	100	58	53	69	18	70	36	30	64	

Footnotes

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 9 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for residential/parkland/institutional/industrial/commercial/community property use (MOE, 2011)

TABLE 4: Soil Analytical Results for BTEX and Petroleum Hydrocarbons
106 Eagleson Road, Kanata, Ontario

Sample Location			Table 9 ¹ Standard R/P/W/C/C	BH25-01	BH25-01	BH25-02	BH25-02	BH25-02	BH25-02	BH25-03	BH25-03	BH25-04	BH25-04	BH25-05	BH25-06	BH25-06
Laboratory Sample ID	Sample ID	ATGQ62		ATGQ63	ATGQ70	ATGQ71	ATJK95	ATJK96	ATGQ65	ATGQ66	ATGQ67	ATJK94	ATJF97	ATGQ69	ATJF98	
Sampling Date (yyyy/mm/dd)		BH25-01-01		BH25-01-02	BH25-02-02	BH25-02-022	BH25-02-04	BH25-02-05	BH25-03-01	BH25-03-02	BH25-04-02	BH25-04-04	BH25-05-04	BH25-06-02	BH25-06-04	
Depth Interval (mbgs)		2025/07/22		2025/07/22	2025/07/22	2025/07/22	2025/07/24	2025/07/24	2025/07/24	2025/07/22	2025/07/22	2025/07/22	2025/07/23	2025/07/23	2025/07/23	
Field Screen (ppmv)		0.0 - 0.6		0.6 - 1.2	0.6 - 1.2	-	1.5 - 3.0	3.0 - 4.6	0.0 - 0.6	0.6 - 1.2	0.6 - 1.2	2.7 - 4.3	1.5 - 3.0	0.6 - 1.2	2.1 - 3.0	
		<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Parameter	RDL	Units					Duplicate of BH25-02									
Volatiles																
Benzene	0.006	mg/kg	0.02	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	< 0.0060	
Toluene	0.02	mg/kg	0.2	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Ethylbenzene	0.01	mg/kg	0.05	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Xylenes	0.02	mg/kg	0.05	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
m,p-Xylenes	0.02	mg/kg	na	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
o-Xylenes	0.02	mg/kg	na	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Petroleum Hydrocarbons (PHC)																
PHC F1	10	mg/kg	25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
PHC F1 - BTEX	10	mg/kg	25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
PHC F2	7	mg/kg	10	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	
PHC F3	50	mg/kg	240	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
PHC F4	50	mg/kg	120	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	

Footnotes
Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
mg/kg - milligrams per kilogram, dry weight basis

BOLD Concentration greater than Table 9 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for residential/parkland/institutional/industrial/commercial/community property use (MOE, 2011)

TABLE 5: Soil Analytical Results for Volatile Organic Compounds
106 Eagleson Road, Kanata, Ontario

Sample Location Laboratory Sample ID Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) Field Screen (ppmv)			Table 9 ¹ Standard R/P/I/I/C/C	BH25-01 ATGQ62 BH25-01-01 2025/07/22 0.0 - 0.6 <5	BH25-01 ATGQ63 BH25-01-02 2025/07/22 0.6 - 1.2 <5	BH25-02 ATGQ70 BH25-02-02 2025/07/22 0.6 - 1.2 <5	BH25-02 ATGQ71 BH25-02-022 2025/07/22 -Duplicate of BH25-02	BH25-02 ATJK95 BH25-02-04 2025/07/24 1.5 - 3.0 <5	BH25-02 ATJK96 BH25-02-05 2025/07/24 3.0 - 4.6 <5	BH25-03 ATGQ65 BH25-03-01 2025/07/22 0.0 - 0.6 <5	BH25-03 ATGQ66 BH25-03-02 2025/07/22 0.6 - 1.2 <5	BH25-04 ATGQ67 BH25-04-02 2025/07/22 0.6 - 1.2 <5	BH25-04 ATJK94 BH25-04-04 2025/07/24 2.7 - 4.3 <5	BH25-05 ATJF97 BH25-05-04 2025/07/23 1.5 - 3.0 <5	BH25-06 ATGQ69 BH25-06-02 2025/07/22 0.6 - 1.2 <5	BH25-06 ATJF98 BH25-06-04 2025/07/23 2.1 - 3.0 -
Parameter	RDL	Units														
Volatile Organic Compounds																
Acetone	0.49	µg/g	0.5	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Bromodichloromethane	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Bromoform	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Bromomethane	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Carbon Tetrachloride	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Chlorobenzene	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Chloroform	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichloropropene, trans-1,3-	0.040	µg/g	na	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dibromochloromethane (Chlorodibromomethane)	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichloropropene, cis-1,3-	0.030	µg/g	na	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
Dichlorobenzene, 1,2- (o-DCB)	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichlorobenzene, 1,3- (m-DCB)	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichlorobenzene, 1,4- (p-DCB)	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichlorodifluoromethane	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichloroethane, 1,1-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichloroethane, 1,2-	0.049	µg/g	0.05	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Dichloroethylene, 1,1-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichloroethylene, cis-1,2-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichloroethylene, trans-1,2-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichloropropane, 1,2-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dichloropropene, 1,3-	0.050	µg/g	0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Ethylene Dibromide (Dibromoethane, 1,2-)	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Hexane(n)	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Methyl Ethyl Ketone	0.40	µg/g	0.5	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Methyl Isobutyl Ketone	0.40	µg/g	0.5	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Methyl tert butyl ether (MTBE)	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Methylene Chloride (Dichloromethane)	0.049	µg/g	0.05	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Styrene	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Tetrachloroethane, 1,1,1,2-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Tetrachloroethane, 1,1,2,2-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Trichloroethane, 1,1,1-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Trichloroethane, 1,1,2-	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Trichloroethylene	0.010	µg/g	0.05	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Tetrachloroethylene	0.040	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Trichlorofluoromethane	0.040	µg/g	0.25	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Vinyl Chloride	0.019	µg/g	0.02	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019

Footnotes

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Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 9 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for residential/parkland/institutional/industrial/commercial/community property use (MOE, 2011)

TABLE 6: Soil Analytical Results for Polycyclic Aromatic Hydrocarbons
106 Eagleson Road, Kanata, Ontario

Sample Location Laboratory Sample ID Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) Field Screen (ppmv)			Table g ¹ Standard R/P/I/I/C/C	BH25-01 ATGQ62 BH25-01-01 2025/07/22 0.0 - 0.6 <5	BH25-01 ATGQ63 BH25-01-02 2025/07/22 0.6 - 1.2 <5	BH25-02 ATGQ70 BH25-02-02 2025/07/22 0.6 - 1.2 <5	BH25-02 ATGQ71 BH25-02-022 2025/07/22 -	BH25-02 ATJK95 BH25-02-04 2025/07/24 1.5 - 3.0 <5	BH25-02 ATJK96 BH25-02-05 2025/07/24 3.0 - 4.6 <5	BH25-03 ATGQ65 BH25-03-01 2025/07/22 0.0 - 0.6 <5	BH25-03 ATGQ66 BH25-03-02 2025/07/22 0.6 - 1.2 <5	BH25-04 ATGQ67 BH25-04-02 2025/07/22 0.6 - 1.2 <5	BH25-04 ATJK94 BH25-04-04 2025/07/24 2.7 - 4.3 <5	BH25-05 ATJF97 BH25-05-04 2025/07/23 1.5 - 3.0 <5	BH25-06 ATGQ69 BH25-06-02 2025/07/22 0.6 - 1.2 <5	BH25-06 ATJF98 BH25-06-04 2025/07/23 2.1 - 3.0 -	
Parameter	RDL	Units					Duplicate of BH25-02										
Polycyclic Aromatic Hydrocarbons																	
Acenaphthene	0.0050	µg/g	0.072	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Acenaphthylene	0.0050	µg/g	0.093	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Anthracene	0.0050	µg/g	0.22	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Benz(a)anthracene	0.0050	µg/g	0.36	0.0054	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Benzo(a)pyrene	0.0050	µg/g	0.3	0.0078	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0057	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Benzo(b,j)fluoranthene	0.0050	µg/g	0.47	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0083	0.0064	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Benzo(g,h,i)perylene	0.0050	µg/g	0.68	0.0092	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Benzo(k)fluoranthene	0.0050	µg/g	0.48	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chrysene	0.0050	µg/g	2.8	0.0064	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Dibenzo(a,h)anthracene	0.0050	µg/g	0.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoranthene	0.0050	µg/g	0.69	0.015	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0085	0.0073	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluorene	0.0050	µg/g	0.19	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Indeno(1,2,3-cd)pyrene	0.0050	µg/g	0.23	0.0071	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 1-	0.0050	µg/g	0.59	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-	0.0050	µg/g	0.59	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 1- & 2-	0.0071	µg/g	0.59 ²	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.014	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071
Naphthalene	0.0050	µg/g	0.09	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Phenanthrene	0.0050	µg/g	0.69	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Pyrene	0.0050	µg/g	1	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	0.0069	0.0069	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Footnotes

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 9 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for residential/parkland/institutional/industrial/commercial/community property use (MOE, 2011)

² Standard applies to both 1- and 2- methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.

TABLE 7: Soil Analytical Results for Waste Characterization
106 Eagleson Road, Kanata, Ontario

Sample Location		Leachate Quality Criteria ¹		TLCP
Laboratory Sample ID				ATJK56
Sample ID				TLCP
Sampling Date (yyyy/mm/dd)				2025/07/23
Parameter	RDL	Units		
Leachable General Chemistry				
Cyanide	0.010	mg/L	20	< 0.010
Fluoride	0.10	mg/L	150	0.16
Nitrite	0.10	mg/L	na	< 0.10
Nitrate+Nitrite as N	1.0	mg/L	1,000	< 1.0
Final pH	-	pH	na	4.98
Initial pH	-	pH	na	9.69
Nitrate	1.0	mg/L	na	< 1.0
Ignitability	0	None	na	NF/NI
Leachable Metals				
Arsenic	200	µg/L	2,500	< 200
Barium	200	µg/L	100,000	300
Boron	100	µg/L	500,000	100
Cadmium	50	µg/L	500	< 50
Chromium (total)	100	µg/L	5,000	< 100
Lead	100	µg/L	5,000	< 100
Mercury	1	µg/L	100	< 1
Selenium	100	µg/L	1,000	< 100
Silver	10	µg/L	5,000	< 10
Uranium	10	µg/L	10,000	< 10
Leachable Volatiles				
Benzene	0.020	mg/L	0.5	< 0.020
Carbon Tetrachloride	0.020	mg/L	0.5	< 0.020
Chlorobenzene	0.020	mg/L	8	< 0.020
Chloroform	0.020	mg/L	10	< 0.020
Dichlorobenzene, 1,2- (o-DCB)	0.050	mg/L	20	< 0.050
Dichlorobenzene, 1,4- (p-DCB)	0.050	mg/L	0.5	< 0.050
Dichloroethane, 1,2-	0.050	mg/L	0.5	< 0.050
Dichloroethylene, 1,1-	0.020	mg/L	1.4	< 0.020
Methyl Ethyl Ketone	1.0	mg/L	200	< 1.0
Methylene Chloride (Dichloromethane)	0.20	mg/L	5	< 0.20
Tetrachloroethylene	0.020	mg/L	3	< 0.020
Trichloroethylene	0.020	mg/L	5	< 0.020
Vinyl Chloride	0.020	mg/L	0.2	< 0.020
Leachable Semi-Volatiles				
Pyridine	0.01	mg/L	5	< 0.01
2,4-Dinitrotoluene	0.01	mg/L	0.13	< 0.01
Nitrobenzene	0.01	mg/L	2	< 0.01
Hexachlorobenzene	0.01	mg/L	0.13	< 0.01
Hexachlorobutadiene	0.01	mg/L	0.5	< 0.01
Hexachloroethane	0.01	mg/L	3	< 0.01
Leachable PAHs				
Benzo(a)pyrene	0.10	µg/L	1	< 0.10
Leachable Phenols				
Cresol	0.0025	mg/L	200	< 0.0025
2,4-Dichlorophenol	0.0025	mg/L	90	< 0.0025
2,4,5-Trichlorophenol	0.00050	mg/L	400	< 0.00050
2,4,6-Trichlorophenol	0.0025	mg/L	0.5	< 0.0025
2,3,4,6-Tetrachlorophenol	0.0025	mg/L	10	< 0.0025
Pentachlorophenol	0.0025	mg/L	6	< 0.0025
2-Methylphenol (o-Cresol)	0.0025	mg/L	200	< 0.0025
m&p-Cresol	0.0025	mg/L	200	< 0.0025

Footnotes:

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of AtkinsRéalis' report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"-": Not analyzed
na - Not applicable
NF/NI - Not flammable/not ignitable
µg/L - micrograms per litre
mg/L - milligrams per litre

BOLD Concentration greater than Leachate Quality Criteria

¹ Ontario Regulation 347 as amended. "Waste Management". Schedule 4 Leachate Quality Criteria.

TABLE 8: Ground Water Analytical Results for Dissolved Inorganics and Metals
106 Eagleson Road, Kanata, Ontario

Sample Location Laboratory Sample ID Sample ID Sampling Date (yyyy/mm/dd)			Table 9 ¹	MW25-01 ATNB24 MW25-01 2025/07/29	MW25-01 ATNB25 MW25-011 2025/07/29 Duplicate of MW25-01	MW25-02 ATNB26 MW25-02 2025/07/29	MW25-03 ATNB27 MW25-03 2025/07/29	MW25-04 ATNB28 MW25-04 2025/07/29	MW25-05 ATNB29 MW25-05 2025/07/29	MW25-06 ATNB30 MW25-06 2025/07/29
Parameter	RDL	Units								
Total Metals										
Mercury	0.1	µg/L	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium (VI)	0.5	µg/L	110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
General Chemistry										
Chloride	1	mg/L	1,800	880	880	2,000	170	920	350	650
Cyanide (CN-)	0.001	mg/L	0.052	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Metals										
Antimony	0.5	µg/L	16,000	5.7	5.3	< 0.50	< 0.50	3	< 0.50	2.6
Arsenic	1	µg/L	1,500	12	12	< 1.0	< 1.0	3.4	< 1.0	1.5
Barium	2	µg/L	23,000	160	160	160	390	120	67	190
Beryllium	0.4	µg/L	53	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Boron	10	µg/L	36,000	25	25	40	86	24	190	40
Cadmium	0.09	µg/L	2.1	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090
Chromium (Total)	5	µg/L	640	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (VI)	0.5	µg/L	110	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cobalt	0.5	µg/L	52	12	12	0.73	1.2	13	1.8	17
Copper	0.9	µg/L	69	< 0.90	< 0.90	< 0.90	1.7	0.93	2.9	1.5
Lead	0.5	µg/L	20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Mercury	0.1	µg/L	na	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	0.5	µg/L	7,300	9	8.9	3.1	9.6	10	52	8
Nickel	1	µg/L	390	17	17	1.6	3.2	23	12	33
Selenium	2	µg/L	50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Silver	0.09	µg/L	1.2	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090
Sodium	100	µg/L	1,800,000	590,000	600,000	1,100,000	55,000	560,000	330,000	380,000
Thallium	0.05	µg/L	400	0.18	0.18	< 0.050	< 0.050	0.18	0.081	0.38
Uranium	0.1	µg/L	330	17	17	0.84	3.9	17	7.7	20
Vanadium	0.5	µg/L	200	0.6	0.53	< 0.50	1.2	< 0.50	< 0.50	< 0.50
Zinc	5	µg/L	890	< 5.0	< 5.0	< 5.0	9.6	< 5.0	8.6	< 5.0

Footnotes:

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
µg/L - micrograms per litre

BOLD Concentration greater than Table 9 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for all types of property use (MOE, 2011)

TABLE 9: Ground Water Analytical Results for Petroleum Hydrocarbons and BTEX
106 Eagleson Road, Kanata, Ontario

Sample Location Laboratory Sample ID Sample ID Sampling Date (yyyy/mm/dd)			Table 9 ¹ Standard All	MW25-01 ATNB24 MW25-01 2025/07/29	MW25-01 ATNB25 MW25-011 2025/07/29 Duplicate of MW25-01	MW25-02 ATNB26 MW25-02 2025/07/29	MW25-03 ATNB27 MW25-03 2025/07/29	MW25-04 ATNB28 MW25-04 2025/07/29	MW25-05 ATNB29 MW25-05 2025/07/29	MW25-06 ATNB30 MW25-06 2025/07/29
Parameter	RDL	Units								
Volatiles										
Benzene	0.17	µg/L	44	< 0.17	< 0.17	3.6	< 0.17	< 0.17	< 0.17	< 0.17
Toluene	0.20	µg/L	14,000	< 0.20	< 0.20	2.1	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene	0.20	µg/L	1,800	< 0.20	< 0.20	1.5	< 0.20	< 0.20	< 0.20	< 0.20
Xylenes	0.20	µg/L	3,300	< 0.20	< 0.20	14	< 0.20	< 0.20	< 0.20	< 0.20
m+p-Xylenes	0.20	µg/L	na	< 0.20	< 0.20	7.1	< 0.20	< 0.20	< 0.20	< 0.20
o-Xylenes	0.20	µg/L	na	< 0.20	< 0.20	7.2	< 0.20	< 0.20	< 0.20	< 0.20
Hexane (n)	1.0	µg/L	51	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons (PHC)										
PHC F1	25	µg/L	na	< 25	< 25	57	< 25	< 25	< 25	< 25
PHC F1 - BTEX	25	µg/L	420	< 25	< 25	36	< 25	< 25	< 25	< 25
PHC F2	90	µg/L	150	< 90	< 90	< 90	< 90	< 90	< 90	< 90
PHC F3	200	µg/L	500	< 200	< 200	< 200	< 200	< 200	< 200	< 200
PHC F4	200	µg/L	500	< 200	< 200	< 200	< 200	< 200	< 200	< 200

Footnotes:

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
µg/L - micrograms per litre

BOLD Concentration greater than Table 9 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for all types of property use (MOE, 2011)

TABLE 10: Ground Water Analytical Results for Volatile Organic Compounds
106 Eagleson Road, Kanata, Ontario

Sample Location Laboratory Sample ID Sample ID Sampling Date (yyyy/mm/dd)			Table 9 ¹ Standard	MW25-01 ATNB24/ATNB25 MW25-01 2025/07/29	MW25-01 ATNB24/ATNB25 MW25-011 2025/07/29 Duplicate of MW25-01	MW25-02 ATNB26 MW25-02 2025/07/29	MW25-03 ATNB27 MW25-03 2025/07/29	MW25-04 ATNB28 MW25-04 2025/07/29	MW25-05 ATNB29 MW25-05 2025/07/29	MW25-06 ATNB30 MW25-06 2025/07/29
Parameter	RDL	Units								
Volatile Organic Compounds										
Dichlorobenzene, 1,2- (o-DCB)	0.50	µg/L	4,600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobenzene, 1,3- (m-DCB)	0.50	µg/L	7,600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobenzene, 1,4- (p-DCB)	0.50	µg/L	8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	1.0	µg/L	3,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethane, 1,1-	0.20	µg/L	320	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Dichloroethane, 1,2-	0.50	µg/L	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichloroethylene, 1,1-	0.20	µg/L	1.6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Dichloroethylene, cis-1,2-	0.50	µg/L	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichloroethylene, trans-1,2-	0.50	µg/L	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichloropropane, 1,2-	0.20	µg/L	16	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Dichloropropene, cis-1,3-	0.30	µg/L	na	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Ethylene Dibromide (Dibromoethane, 1,2-)	0.20	µg/L	0.25	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Hexane(n)	1.0	µg/L	51	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	10	µg/L	100,000	< 10	< 10	< 10	31	< 10	< 10	< 10
Bromodichloromethane	0.50	µg/L	67,000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	1.0	µg/L	380	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	0.50	µg/L	5.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon Tetrachloride	0.20	µg/L	0.79	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Chlorobenzene	0.20	µg/L	500	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Methyl Ethyl Ketone	10	µg/L	470,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl Isobutyl Ketone	5.0	µg/L	140,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert butyl ether (MTBE)	0.50	µg/L	190	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride (Dichloromethane)	2.0	µg/L	610	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Styrene	0.50	µg/L	1,300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethane, 1,1,1,2-	0.50	µg/L	3.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethane, 1,1,2,2-	0.50	µg/L	3.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethylene	0.20	µg/L	1.6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Trichloroethane, 1,1,1-	0.20	µg/L	640	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Trichloroethane, 1,1,2-	0.50	µg/L	4.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethylene	0.20	µg/L	1.6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	0.50	µg/L	2,000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	0.20	µg/L	2.4	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Dichloropropene, 1,3-	0.50	µg/L	5.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichloropropene, trans-1,3-	0.40	µg/L	na	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Dibromochloromethane (Chlorodibromomethane)	0.50	µg/L	65,000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl Chloride	0.20	µg/L	0.5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20

Footnotes:

Laboratory analysis by Bureau Veritas Canada (2019) Inc.,
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
µg/L - micrograms per litre

BOLD Concentration greater than Table 9 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for all types of property use (MOE, 2011)

TABLE 11: Ground Water Analytical Results for Polycyclic Aromatic Hydrocarbons
106 Eagleson Road, Kanata, Ontario

Sample Location Laboratory Sample ID Sample ID Sampling Date (yyyy/mm/dd)			Table 9 ¹ Standard	MW25-01 ATNB24 MW25-01 2025/07/29	MW25-01 ATNB25 MW25-011 2025/07/29 Duplicate of MW25-01	MW25-02 ATNB26 MW25-02 2025/07/29	MW25-03 ATNB27 MW25-03 2025/07/29	MW25-04 ATNB28 MW25-04 2025/07/29	MW25-05 ATNB29 MW25-05 2025/07/29	MW25-06 ATNB30 MW25-06 2025/07/29
Parameter	RDL	Units								
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	0.050	µg/L	600	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthylene	0.050	µg/L	1.4	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Anthracene	0.050	µg/L	1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benz(a)anthracene	0.050	µg/L	1.8	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(a)pyrene	0.0090	µg/L	0.81	< 0.0090	< 0.0090	< 0.0090	< 0.0090	< 0.0090	< 0.0090	< 0.0090
Benzo(b,j)fluoranthene	0.050	µg/L	0.75	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(g,h,i)perylene	0.050	µg/L	0.2	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(k)fluoranthene	0.050	µg/L	0.4	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Chrysene	0.050	µg/L	0.7	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dibenzo(a,h)anthracene	0.050	µg/L	0.4	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene	0.050	µg/L	73	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene	0.050	µg/L	290	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-cd)pyrene	0.050	µg/L	0.2	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Methylnaphthalene, 1-	0.050	µg/L	1,500	< 0.050	< 0.050	0.96	< 0.050	< 0.050	< 0.050	< 0.050
Methylnaphthalene, 2-	0.050	µg/L	1,500	< 0.050	< 0.050	1.6	< 0.050	< 0.050	< 0.050	< 0.050
Methylnaphthalene, 1- & 2-	0.071	µg/L	1,500 ²	< 0.071	< 0.071	2.5	< 0.071	< 0.071	< 0.071	< 0.071
Naphthalene	0.050	µg/L	1,400	< 0.050	< 0.050	2.5	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene	0.030	µg/L	380	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
Pyrene	0.050	µg/L	5.7	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

Footnotes:

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"- " - Not analyzed
na - Not applicable
µg/L - micrograms per litre

BOLD Concentration greater than Table 9 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for all types of property use (MOE, 2011)

² Standard applies to both 1- and 2- methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.

TABLE 12: Soil Duplicate Analytical Results
106 Eagleson Road, Kanata, Ontario

SNC-Lavalin Sample ID Laboratory Sample ID Sample Location Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) Field Screen (ppmv)			RPD ² Limit	BH25-02 ATGQ70 BH25-02-02 2025/07/22 0.6 - 1.2 <5	BH25-02 ATGQ71 BH25-02-022 2025/07/22 - Duplicate of BH25-02	RPD
Parameter	RDL	Units				
Total Metals						
Antimony	0.20	µg/g	60%	< 0.20	< 0.20	*
Arsenic	1.0	µg/g	60%	1.3	1.5	*
Barium	0.50	µg/g	80%	130	150	14%
Beryllium	0.20	µg/g	60%	0.49	0.49	*
Boron	5.0	µg/g	60%	5.8	6.6	*
Boron (Hot Water Soluble)	0.050	µg/g	80%	0.18	0.18	*
Cadmium	0.10	µg/g	60%	< 0.10	< 0.10	*
Chromium (total)	1.0	µg/g	70%	33	35	6%
Chromium (VI)	0.18	µg/g	70%	< 0.18	< 0.18	*
Cobalt	0.10	µg/g	60%	9.3	9.7	4%
Copper	0.50	µg/g	60%	18	20	11%
Lead	1.0	µg/g	80%	6.7	6.8	1%
Mercury	0.050	µg/g	80%	< 0.050	< 0.050	*
Molybdenum	0.50	µg/g	80%	< 0.50	< 0.50	*
Nickel	0.50	µg/g	60%	19	21	10%
Selenium	0.50	µg/g	60%	< 0.50	< 0.50	*
Silver	0.20	µg/g	60%	< 0.20	< 0.20	*
Thallium	0.050	µg/g	60%	0.22	0.22	*
Uranium	0.050	µg/g	60%	0.63	0.60	5%
Vanadium	5.0	µg/g	60%	47	48	2%
Zinc	5.0	µg/g	60%	49	52	6%
Volatiles						
Benzene	0.0060	mg/kg	100%	< 0.0060	< 0.0060	*
Toluene	0.020	mg/kg	100%	< 0.020	< 0.020	*
Ethylbenzene	0.010	mg/kg	100%	< 0.010	< 0.010	*
Xylenes	0.020	mg/kg	100%	< 0.020	< 0.020	*
m+p-Xylenes	0.020	mg/kg	100%	< 0.020	< 0.020	*
o-Xylenes	0.020	mg/kg	100%	< 0.020	< 0.020	*
Hexane (n)	0.040	mg/kg	100%	< 0.040	< 0.040	*
Petroleum Hydrocarbons (PHC)						
PHC F1	10	mg/kg	60%	< 10	< 10	*
PHC F1 - BTEX	10	mg/kg	60%	< 10	< 10	*
PHC F2	7.0	mg/kg	60%	< 7.0	< 7.0	*
PHC F3	50	mg/kg	60%	< 50	< 50	*
PHC F4	50	mg/kg	60%	< 50	< 50	*
Volatile Organic Compounds						
Acetone	0.49	µg/g	100%	< 0.49	< 0.49	*
Bromodichloromethane	0.040	µg/g	100%	< 0.040	< 0.040	*
Bromoform	0.040	µg/g	100%	< 0.040	< 0.040	*
Bromomethane	0.040	µg/g	100%	< 0.040	< 0.040	*
Carbon Tetrachloride	0.040	µg/g	100%	< 0.040	< 0.040	*
Chlorobenzene	0.040	µg/g	100%	< 0.040	< 0.040	*
Chloroform	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichloropropene, trans-1,3-	0.040	µg/g	100%	< 0.040	< 0.040	*
Dibromochloromethane (Chlorodibromomethane)	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichloropropene, cis-1,3-	0.030	µg/g	100%	< 0.030	< 0.030	*
Dichlorobenzene, 1,2- (o-DCB)	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichlorobenzene, 1,3- (m-DCB)	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichlorobenzene, 1,4- (p-DCB)	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichlorodifluoromethane	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichloroethane, 1,1-	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichloroethane, 1,2-	0.049	µg/g	100%	< 0.049	< 0.049	*
Dichloroethylene, 1,1-	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichloroethylene, cis-1,2-	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichloroethylene, trans-1,2-	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichloropropane, 1,2-	0.040	µg/g	100%	< 0.040	< 0.040	*
Dichloropropene, 1,3-	0.050	µg/g	100%	< 0.050	< 0.050	*
Ethylene Dibromide (Dibromoethane, 1,2-)	0.040	µg/g	100%	< 0.040	< 0.040	*
Hexane(n)	0.040	µg/g	100%	< 0.040	< 0.040	*
Methyl Ethyl Ketone	0.40	µg/g	100%	< 0.40	< 0.40	*
Methyl Isobutyl Ketone	0.40	µg/g	100%	< 0.40	< 0.40	*
Methyl tert butyl ether (MTBE)	0.040	µg/g	100%	< 0.040	< 0.040	*
Methylene Chloride (Dichloromethane)	0.049	µg/g	100%	< 0.049	< 0.049	*
Styrene	0.040	µg/g	100%	< 0.040	< 0.040	*
Tetrachloroethane, 1,1,1,2-	0.040	µg/g	100%	< 0.040	< 0.040	*
Tetrachloroethane, 1,1,2,2-	0.040	µg/g	100%	< 0.040	< 0.040	*
Trichloroethane, 1,1,1-	0.040	µg/g	100%	< 0.040	< 0.040	*
Trichloroethane, 1,1,2-	0.040	µg/g	100%	< 0.040	< 0.040	*
Trichloroethylene	0.010	µg/g	100%	< 0.010	< 0.010	*
Tetrachloroethylene	0.040	µg/g	100%	< 0.040	< 0.040	*
Trichlorofluoromethane	0.040	µg/g	100%	< 0.040	< 0.040	*
Vinyl Chloride	0.019	µg/g	100%	< 0.019	< 0.019	*
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Acenaphthylene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Anthracene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Benzo(a)anthracene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Benzo(a)pyrene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Benzo(b,j)fluoranthene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Benzo(g,h,i)perylene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Benzo(k)fluoranthene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Chrysene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Dibenzo(a,h)anthracene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Fluoranthene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Fluorene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Indeno(1,2,3-cd)pyrene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Methylnaphthalene, 1-	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Methylnaphthalene, 2-	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Methylnaphthalene, 1- & 2-	0.0071	µg/g	100%	< 0.0071	< 0.0071	*
Naphthalene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Phenanthrene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*
Pyrene	0.0050	µg/g	100%	< 0.0050	< 0.0050	*

Footnotes

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
"- - Not analyzed
na - Not applicable
mg/kg - milligrams per kilogram, dry weight basis

BOLD Exceeds RPD

¹ Laboratory detection limit exceeds regulatory standard/guideline.

² RPD limits calculated as 2x laboratory performance criteria (CCME, 2016) using limits provided in the CCME guidance.

TABLE 13: Ground Water Blank Analytical Results
106 Eagleson Road, Kanata, Ontario

SNC-Lavalin Sample ID			RPD ¹ Limit	MW25-01	MW25-01	RPD
Laboratory Sample ID				ATNB24	ATNB25	
Sample Location Sampling Date (yyyy/mm/dd)				MW25-01 2025/07/29	MW25-011 2025/07/29 Duplicate of MW25-01	
Parameter	RDL	Units				
Total Metals						
Mercury	0.10	µg/L	40%	< 0.10	< 0.10	*
Chromium (VI)	0.50	µg/L	40%	< 0.50	< 0.50	*
Dissolved Metals						
Antimony	0.50	µg/L	40%	5.7	5.3	7%
Arsenic	1.0	µg/L	40%	12	12	0%
Barium	2.0	µg/L	40%	160	160	0%
Beryllium	0.40	µg/L	40%	< 0.40	< 0.40	*
Boron	10	µg/L	40%	25	25	*
Cadmium	0.090	µg/L	40%	< 0.090	< 0.090	*
Chromium (Total)	5.0	µg/L	40%	< 5.0	< 5.0	*
Chromium (VI)	0.50	µg/L	40%	< 0.50	< 0.50	*
Cobalt	0.50	µg/L	40%	12	12	0%
Copper	0.90	µg/L	40%	< 0.90	< 0.90	*
Lead	0.50	µg/L	40%	< 0.50	< 0.50	*
Mercury	0.10	µg/L	40%	< 0.10	< 0.10	*
Molybdenum	0.50	µg/L	40%	9.0	8.9	1%
Nickel	1.0	µg/L	40%	17	17	0%
Selenium	2.0	µg/L	40%	< 2.0	< 2.0	*
Silver	0.090	µg/L	40%	< 0.090	< 0.090	*
Sodium	100	µg/L	40%	590,000	600,000	2%
Thallium	0.050	µg/L	40%	0.18	0.18	*
Uranium	0.10	µg/L	40%	17	17	0%
Vanadium	0.50	µg/L	40%	0.60	0.53	*
Zinc	5.0	µg/L	40%	< 5.0	< 5.0	*
Volatiles						
Benzene	0.17	µg/L	60%	< 0.17	< 0.17	*
Toluene	0.20	µg/L	60%	< 0.20	< 0.20	*
Ethylbenzene	0.20	µg/L	60%	< 0.20	< 0.20	*
Xylenes	0.20	µg/L	60%	< 0.20	< 0.20	*
m+p-Xylenes	0.20	µg/L	60%	< 0.20	< 0.20	*
o-Xylenes	0.20	µg/L	60%	< 0.20	< 0.20	*
Petroleum Hydrocarbons (PHC)						
PHC F1	25	µg/L	60%	< 25	< 25	*
PHC F1 - BTEX	25	µg/L	60%	< 25	< 25	*
PHC F2	90	µg/L	60%	< 90	< 90	*
PHC F3	200	µg/L	60%	< 200	< 200	*
PHC F4	200	µg/L	60%	< 200	< 200	*
Volatile Organic Compounds						
Dichlorobenzene, 1,2- (o-DCB)	0.50	µg/L	60%	< 0.50	< 0.50	*
Dichlorobenzene, 1,3- (m-DCB)	0.50	µg/L	60%	< 0.50	< 0.50	*
Dichlorobenzene, 1,4- (p-DCB)	0.50	µg/L	60%	< 0.50	< 0.50	*
Dichlorodifluoromethane	1.0	µg/L	60%	< 1.0	< 1.0	*
Dichloroethane, 1,1-	0.20	µg/L	60%	< 0.20	< 0.20	*
Dichloroethane, 1,2-	0.50	µg/L	60%	< 0.50	< 0.50	*
Dichloroethylene, 1,1-	0.20	µg/L	60%	< 0.20	< 0.20	*
Dichloroethylene, cis-1,2-	0.50	µg/L	60%	< 0.50	< 0.50	*
Dichloroethylene, trans-1,2-	0.50	µg/L	60%	< 0.50	< 0.50	*
Dichloropropane, 1,2-	0.20	µg/L	60%	< 0.20	< 0.20	*
Dichloropropane, cis-1,3-	0.30	µg/L	60%	< 0.30	< 0.30	*
Ethylene Dibromide (Dibromoethane, 1,2-)	0.20	µg/L	60%	< 0.20	< 0.20	*
Hexane(n)	1.0	µg/L	60%	< 1.0	< 1.0	*
Acetone	10	µg/L	60%	< 10	< 10	*
Bromodichloromethane	0.50	µg/L	60%	< 0.50	< 0.50	*
Bromoform	1.0	µg/L	60%	< 1.0	< 1.0	*
Bromomethane	0.50	µg/L	60%	< 0.50	< 0.50	*
Carbon Tetrachloride	0.20	µg/L	60%	< 0.20	< 0.20	*
Chlorobenzene	0.20	µg/L	60%	< 0.20	< 0.20	*
Methyl Ethyl Ketone	10	µg/L	60%	< 10	< 10	*
Methyl Isobutyl Ketone	5.0	µg/L	60%	< 5.0	< 5.0	*
Methyl tert butyl ether (MTBE)	0.50	µg/L	60%	< 0.50	< 0.50	*
Methylene Chloride (Dichloromethane)	2.0	µg/L	60%	< 2.0	< 2.0	*
Styrene	0.50	µg/L	60%	< 0.50	< 0.50	*
Tetrachloroethane, 1,1,1,2-	0.50	µg/L	60%	< 0.50	< 0.50	*
Tetrachloroethane, 1,1,2,2-	0.50	µg/L	60%	< 0.50	< 0.50	*
Tetrachloroethylene	0.20	µg/L	60%	< 0.20	< 0.20	*
Trichloroethane, 1,1,1-	0.20	µg/L	60%	< 0.20	< 0.20	*
Trichloroethane, 1,1,2-	0.50	µg/L	60%	< 0.50	< 0.50	*
Trichloroethylene	0.20	µg/L	60%	< 0.20	< 0.20	*
Trichlorofluoromethane	0.50	µg/L	60%	< 0.50	< 0.50	*
Chloroform	0.20	µg/L	60%	< 0.20	< 0.20	*
Dichloropropene, 1,3-	0.50	µg/L	60%	< 0.50	< 0.50	*
Dichloropropene, trans-1,3-	0.40	µg/L	60%	< 0.40	< 0.40	*
Dibromochloromethane (Chlorodibromomethane)	0.50	µg/L	60%	< 0.50	< 0.50	*
Vinyl Chloride	0.20	µg/L	60%	< 0.20	< 0.20	*
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.050	µg/L	60%	< 0.050	< 0.050	*
Acenaphthylene	0.050	µg/L	60%	< 0.050	< 0.050	*
Anthracene	0.050	µg/L	60%	< 0.050	< 0.050	*
Benz(a)anthracene	0.050	µg/L	60%	< 0.050	< 0.050	*
Benzo(a)pyrene	0.0090	µg/L	60%	< 0.0090	< 0.0090	*
Benzo(b)fluoranthene	0.050	µg/L	60%	< 0.050	< 0.050	*
Benzo(g,h,i)perylene	0.050	µg/L	60%	< 0.050	< 0.050	*
Benzo(k)fluoranthene	0.050	µg/L	60%	< 0.050	< 0.050	*
Chrysene	0.050	µg/L	60%	< 0.050	< 0.050	*
Dibenzo(a,h)anthracene	0.050	µg/L	60%	< 0.050	< 0.050	*
Fluoranthene	0.050	µg/L	60%	< 0.050	< 0.050	*
Fluorene	0.050	µg/L	60%	< 0.050	< 0.050	*
Indeno(1,2,3-cd)pyrene	0.050	µg/L	60%	< 0.050	< 0.050	*
Methylnaphthalene, 1-	0.050	µg/L	60%	< 0.050	< 0.050	*
Methylnaphthalene, 2-	0.050	µg/L	60%	< 0.050	< 0.050	*
Methylnaphthalene, 1- & 2-	0.071	µg/L	60%	< 0.071	< 0.071	*
Naphthalene	0.050	µg/L	60%	< 0.050	< 0.050	*
Phenanthrene	0.030	µg/L	60%	< 0.030	< 0.030	*
Pyrene	0.050	µg/L	60%	< 0.050	< 0.050	*

Footnotes:

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of AtkinsRéalis' report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
*- Not analyzed
na - Not applicable
µg/L - micrograms per litre

BOLD Concentration greater than RPD Exceeds RPD Limit

¹ Laboratory detection limit exceeds regulatory standard/guideline.

² RPD limits calculated as 2x laboratory performance criteria (CCME, 2016) using limits provided in the CCME guidance.

TABLE 14: Ground Water Blank Analytical Results
106 Eagleson Road, Kanata, Ontario

Sample Location Laboratory Sample ID Sample ID Sampling Date (yyyy/mm/dd)			Table 9 ¹ Standard	FIELD BLANK ATNB06 FIELD BLANK 2025/07/29	TRIP BLANK ATNB07 TRIP BLANK 2025/07/29
Parameter	RDL	Units			
Volatiles					
Benzene	0.17	µg/L	44	< 0.17	< 0.17
Toluene	0.20	µg/L	14,000	< 0.20	< 0.20
Ethylbenzene	0.20	µg/L	1,800	< 0.20	< 0.20
Xylenes	0.20	µg/L	3,300	< 0.20	< 0.20
m+p-Xylenes	0.20	µg/L	na	< 0.20	< 0.20
o-Xylenes	0.20	µg/L	na	< 0.20	< 0.20
Petroleum Hydrocarbons (PHC)					
PHC F1	25	µg/L	na	< 25	< 25
PHC F1 - BTEX	25	µg/L	420	< 25	< 25
PHC F2	90	µg/L	150	-	-
PHC F3	200	µg/L	500	-	-
PHC F4	200	µg/L	500	-	-
Volatile Organic Compounds					
Dichlorobenzene, 1,2- (o-DCB)	0.50	µg/L	4,600	< 0.50	< 0.50
Dichlorobenzene, 1,3- (m-DCB)	0.50	µg/L	7,600	< 0.50	< 0.50
Dichlorobenzene, 1,4- (p-DCB)	0.50	µg/L	8	< 0.50	< 0.50
Dichlorodifluoromethane	1.0	µg/L	3,500	< 1.0	< 1.0
Dichloroethane, 1,1-	0.20	µg/L	320	< 0.20	< 0.20
Dichloroethane, 1,2-	0.50	µg/L	1.6	< 0.50	< 0.50
Dichloroethylene, 1,1-	0.20	µg/L	1.6	< 0.20	< 0.20
Dichloroethylene, cis-1,2-	0.50	µg/L	1.6	< 0.50	< 0.50
Dichloroethylene, trans-1,2-	0.50	µg/L	1.6	< 0.50	< 0.50
Dichloropropane, 1,2-	0.20	µg/L	16	< 0.20	< 0.20
Dichloropropene, cis-1,3-	0.30	µg/L	na	< 0.30	< 0.30
Ethylene Dibromide (Dibromoethane, 1,2-)	0.20	µg/L	0.25	< 0.20	< 0.20
Acetone	10	µg/L	100,000	< 10	< 10
Bromodichloromethane	0.50	µg/L	67,000	< 0.50	< 0.50
Bromoform	1.0	µg/L	380	< 1.0	< 1.0
Bromomethane	0.50	µg/L	5.6	< 0.50	< 0.50
Carbon Tetrachloride	0.20	µg/L	0.79	< 0.20	< 0.20
Chlorobenzene	0.20	µg/L	500	< 0.20	< 0.20
Methyl Ethyl Ketone	10	µg/L	470,000	< 10	< 10
Methyl Isobutyl Ketone	5.0	µg/L	140,000	< 5.0	< 5.0
Methyl tert butyl ether (MTBE)	0.50	µg/L	190	< 0.50	< 0.50
Methylene Chloride (Dichloromethane)	2.0	µg/L	610	< 2.0	< 2.0
Styrene	0.50	µg/L	1,300	< 0.50	< 0.50
Tetrachloroethane, 1,1,1,2-	0.50	µg/L	3.3	< 0.50	< 0.50
Tetrachloroethane, 1,1,2,2-	0.50	µg/L	3.2	< 0.50	< 0.50
Tetrachloroethylene	0.20	µg/L	1.6	< 0.20	< 0.20
Trichloroethane, 1,1,1-	0.20	µg/L	640	< 0.20	< 0.20
Trichloroethane, 1,1,2-	0.50	µg/L	4.7	< 0.50	< 0.50
Trichloroethylene	0.20	µg/L	1.6	< 0.20	< 0.20
Trichlorofluoromethane	0.50	µg/L	2,000	< 0.50	< 0.50
Chloroform	0.20	µg/L	2.4	< 0.20	< 0.20
Dichloropropene, 1,3-	0.50	µg/L	5.2	< 0.50	< 0.50
Dichloropropene, trans-1,3-	0.40	µg/L	na	< 0.40	< 0.40
Dibromochloromethane (Chlorodibromomethane)	0.50	µg/L	65,000	< 0.50	< 0.50
Vinyl Chloride	0.20	µg/L	0.5	< 0.20	< 0.20

Footnotes:

Laboratory analysis by Bureau Veritas Canada (2019) Inc.
Additional terms may be defined within the body of the report.
RDL - Reportable Detection Limit, unless otherwise noted
< - Denotes concentration less than indicated detection limit
µg/L - micrograms per litre

BOLD Concentration greater than Table 9 Standard

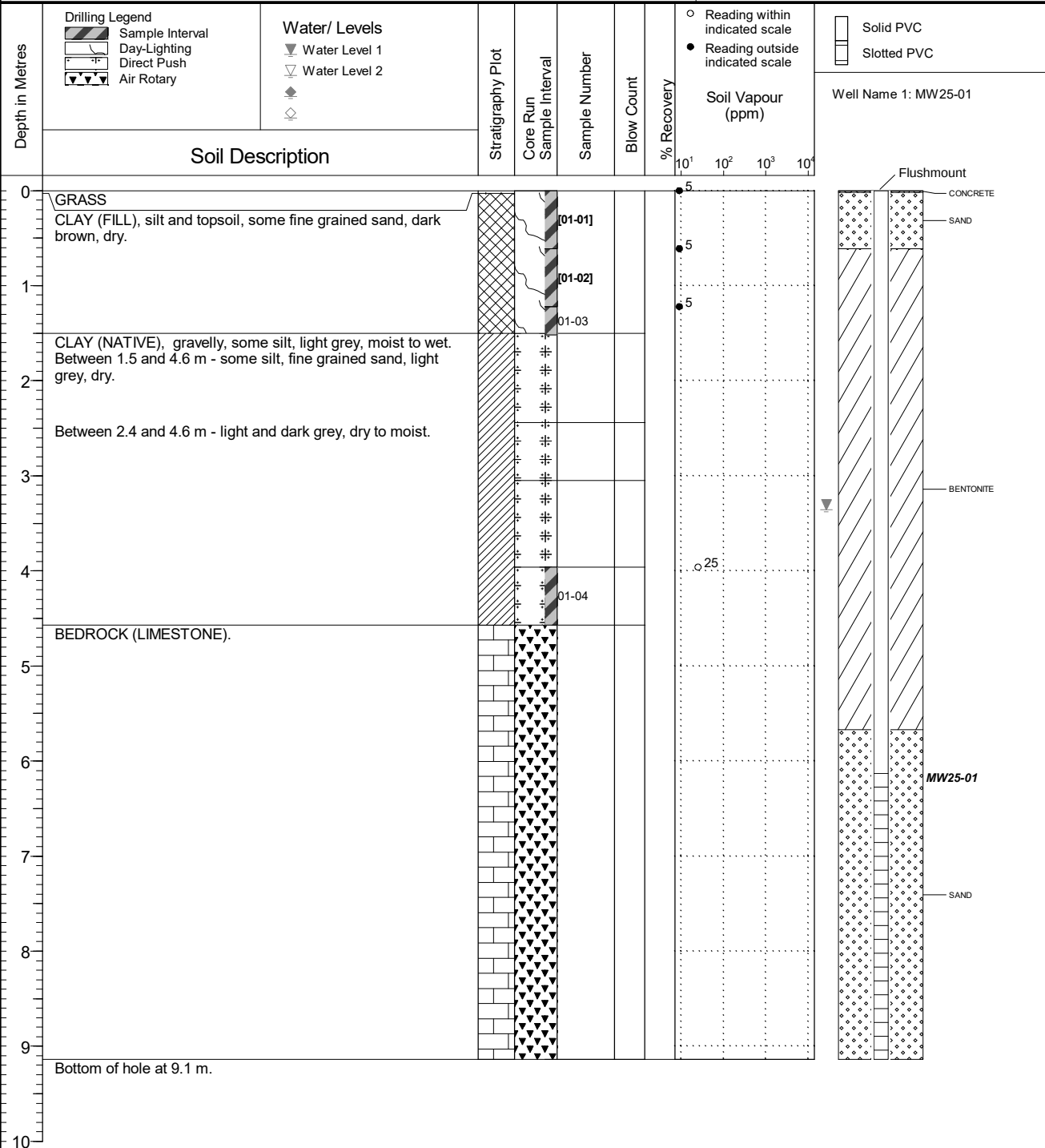
Appendix A

Borehole Logs

Drilling Contractor: Strata Drilling Group
Drilling Method: Direct Push/Air Rotary
Borehole Dia. (m): 0.10
Pipe/Slotted Pipe Dia. (m): 0.05/0.05

Date Monitored: 2025 07 29
Ground Surface Elev. (m): 100.167
Top of Casing Elev. (m): 100.050
Northing: n/a
Easting: n/a

Project Number: 705228
Borehole Logged By: SG
Date Drilled: 2025 07 22
Log Typed By: JS



NOTES

*denotes blind field duplicate. [] Sample submitted for analysis. Flushmount Casing 0.15 m dia. Borehole daylighted to 1.5 mbgs.



Client
Shell Canada Products

Borehole No. : BH25-02

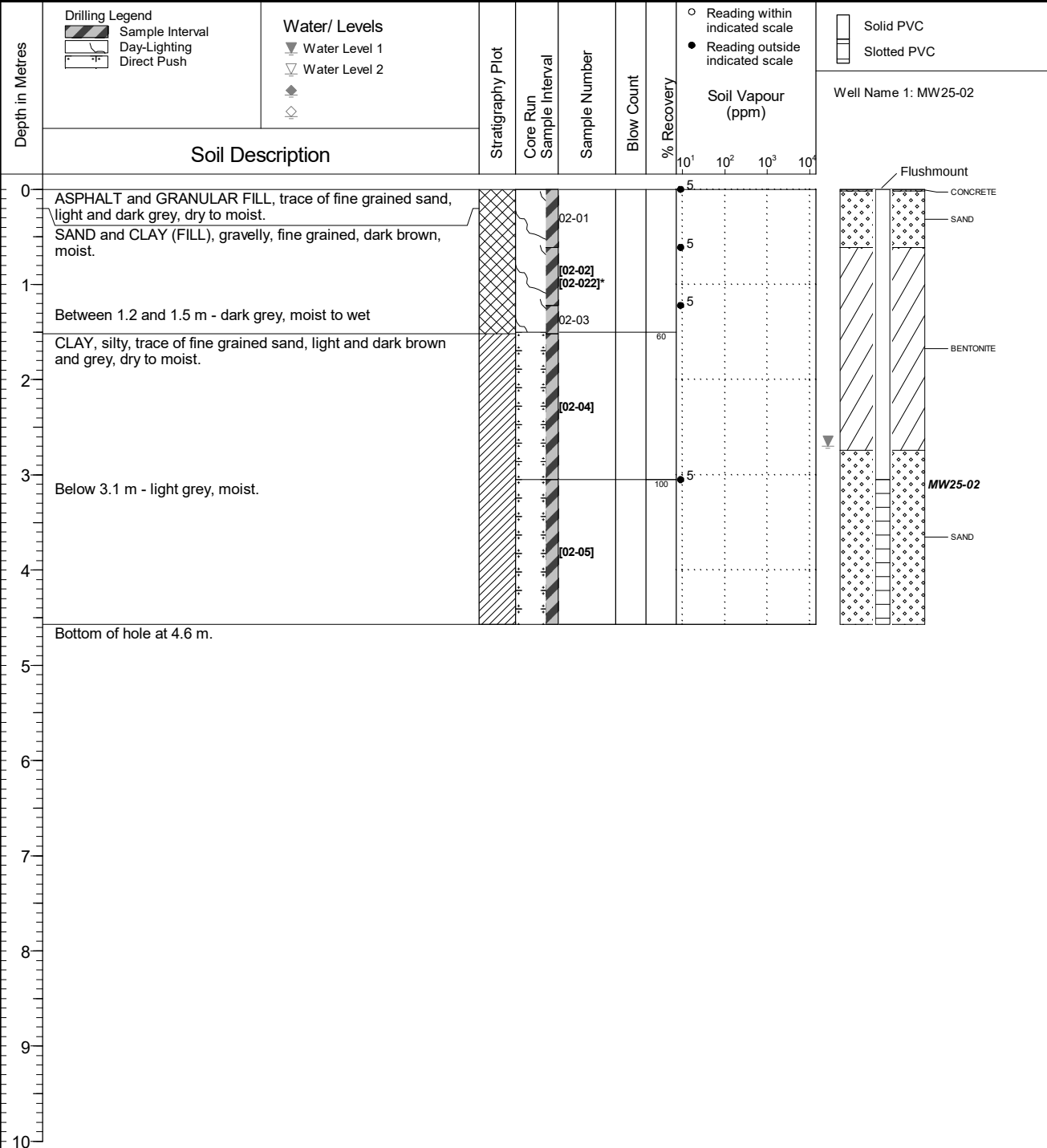
Location
106 Eagleson Road, Kanata, ON

PAGE 1 OF 1

Drilling Contractor: Strata Drilling Group
Drilling Method: Direct Push
Borehole Dia. (m): 0.10
Pipe/Slotted Pipe Dia. (m): 0.05/0.05

Date Monitored: 2025 07 29
Ground Surface Elev. (m): 99.837
Top of Casing Elev. (m): 99.551
Northing: n/a
Easting: n/a

Project Number: 705228
Borehole Logged By: SG
Date Drilled: 2025 07 22
Log Typed By: JS



NOTES

*denotes blind field duplicate. [] Sample submitted for analysis. Flushmount Casing 0.15 m dia. Borehole daylighted to 1.5 mbgs.



Client
Shell Canada Products

Borehole No. : BH25-03

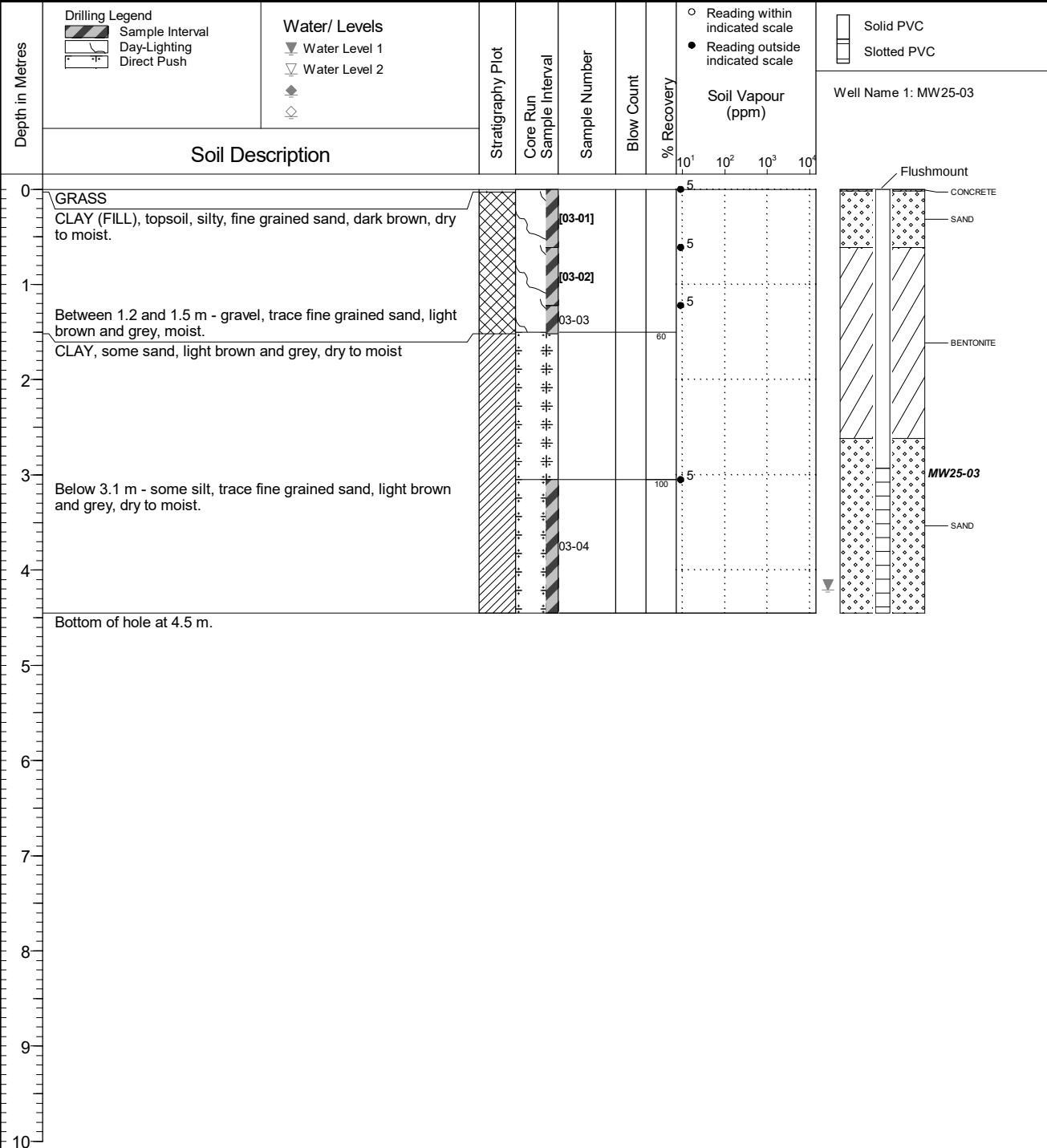
Location
106 Eagleson Road, Kanata, ON

PAGE 1 OF 1

Drilling Contractor: Strata Drilling Group
Drilling Method: Direct Push
Borehole Dia. (m): 0.10
Pipe/Slotted Pipe Dia. (m): 0.05/0.05

Date Monitored: 2025 07 29
Ground Surface Elev. (m): 100.178
Top of Casing Elev. (m): 99.968
Northing: n/a
Easting: n/a

Project Number: 705228
Borehole Logged By: SG
Date Drilled: 2025 07 22
Log Typed By: JS



NOTES

*denotes blind field duplicate. [] Sample submitted for analysis. Flushmount Casing 0.15 m dia. Borehole daylighted to 1.5 mbgs.



Client
Shell Canada Products

Borehole No. : BH25-04

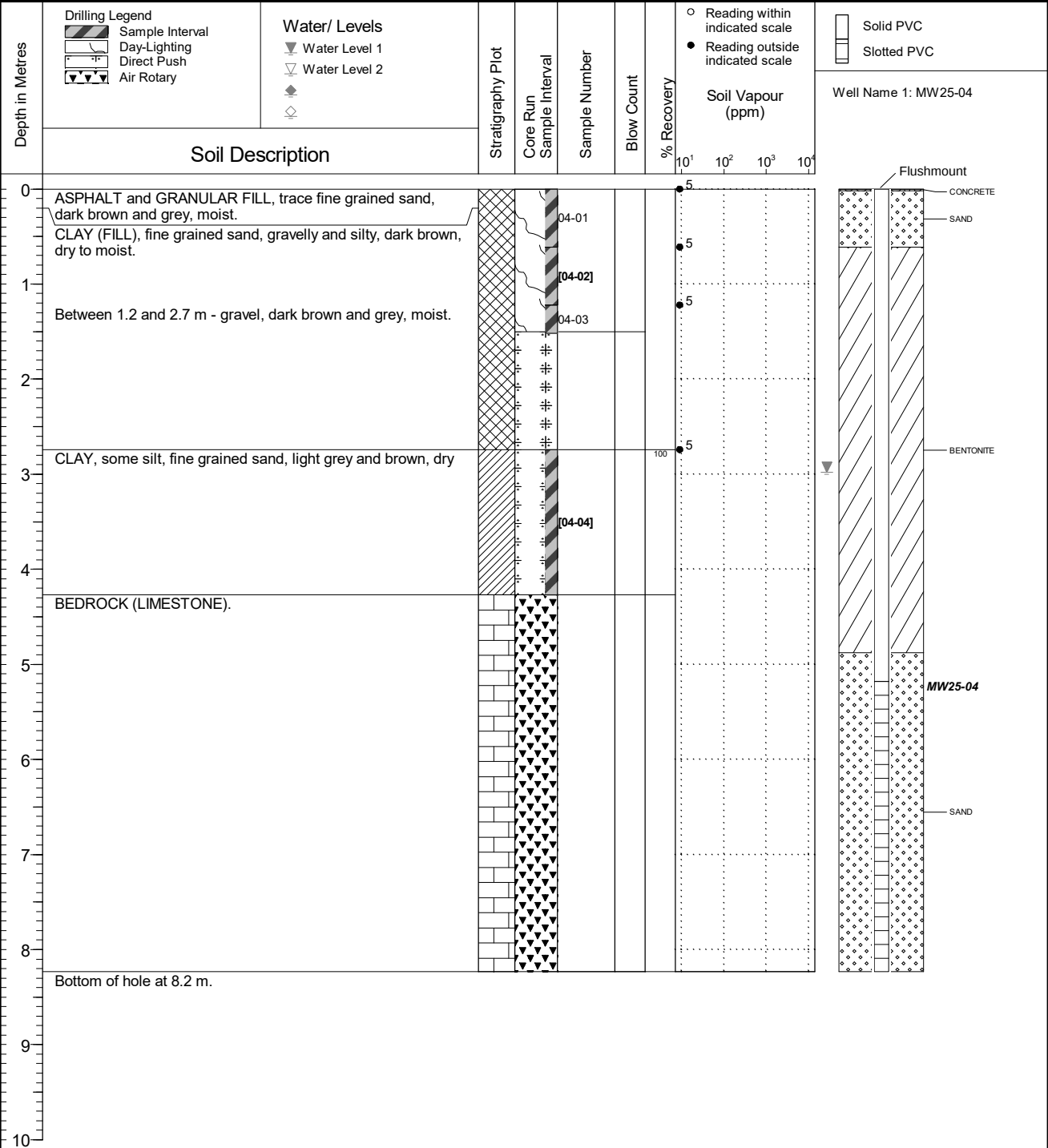
Location
106 Eagleson Road, Kanata, ON

PAGE 1 OF 1

Drilling Contractor: Strata Drilling Group
Drilling Method: Direct Push/Air Rotary
Borehole Dia. (m): 0.10
Pipe/Slotted Pipe Dia. (m): 0.05/0.05

Date Monitored: 2025 07 29
Ground Surface Elev. (m): 100.032
Top of Casing Elev. (m): 99.969
Northing: n/a
Easting: n/a

Project Number: 705228
Borehole Logged By: SG
Date Drilled: 2025 07 25
Log Typed By: JS



NOTES

*denotes blind field duplicate. [] Sample submitted for analysis. Flushmount Casing 0.15 m dia. Borehole daylighted to 1.5 mbgs.



Client
Shell Canada Products

Borehole No. : BH25-05

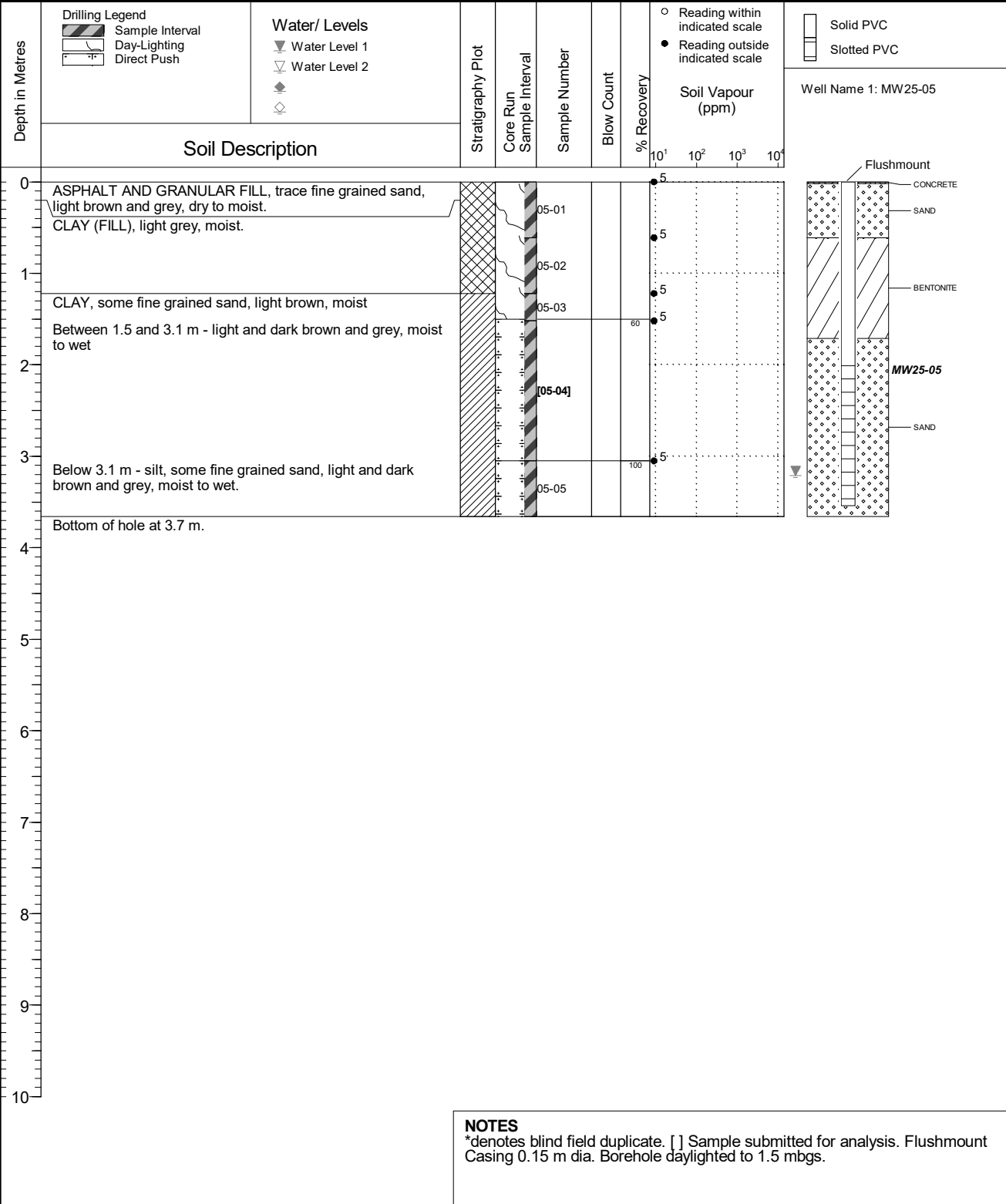
Location
106 Eagleson Road, Kanata, ON

PAGE 1 OF 1

Drilling Contractor: Strata Drilling Group
Drilling Method: Direct Push
Borehole Dia. (m): 0.10
Pipe/Slotted Pipe Dia. (m): 0.05/0.05

Date Monitored: 2025 07 29
Ground Surface Elev. (m): 99.683
Top of Casing Elev. (m): 99.573
Northing: n/a
Easting: n/a

Project Number: 705228
Borehole Logged By: SG
Date Drilled: 2025 07 22
Log Typed By: JS





Client
Shell Canada Products

Borehole No. : BH25-06

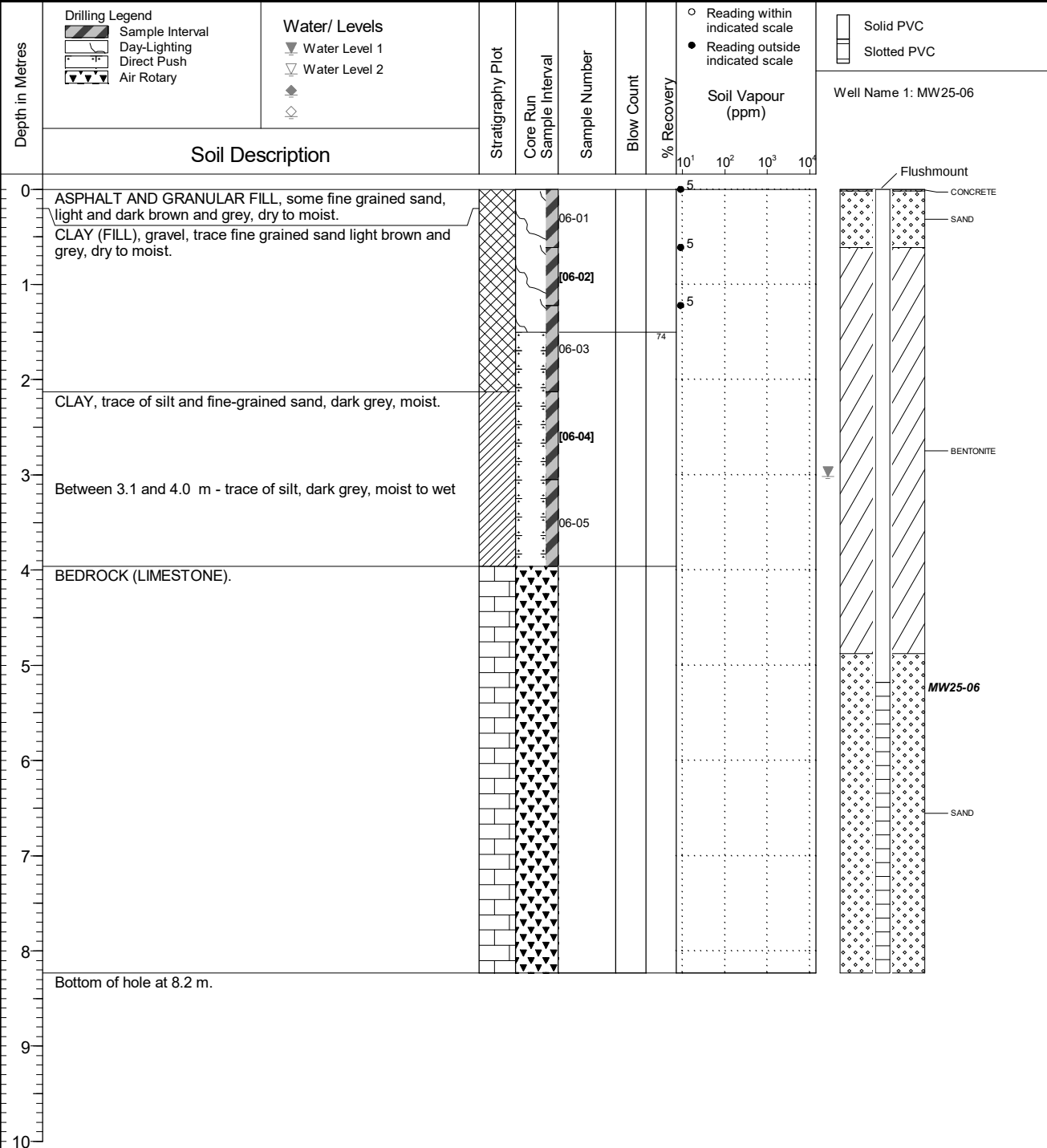
Location
106 Eagleson Road, Kanata, ON

PAGE 1 OF 1

Drilling Contractor: Strata Drilling Group
Drilling Method: Direct Push/Air Rotary
Borehole Dia. (m): 0.10
Pipe/Slotted Pipe Dia. (m): 0.05/0.05

Date Monitored: 2025 07 29
Ground Surface Elev. (m): 99.989
Top of Casing Elev. (m): 99.859
Northing: n/a
Easting: n/a

Project Number: 705228
Borehole Logged By: SG
Date Drilled: 2025 07 22
Log Typed By: JS



NOTES

*denotes blind field duplicate. [] Sample submitted for analysis. Flushmount Casing 0.15 m dia. Borehole daylighted to 1.5 mbgs.

Appendix B

MECP Well Records

All measurements recorded in: ☐ Metric ☒ Imperial

Follow instructions on the front and back of this form. Print or Type

Well Tag No. of Deepest Well: (Print Well Tag No.)
A412059

Well No. on Drawing of Deepest Well:

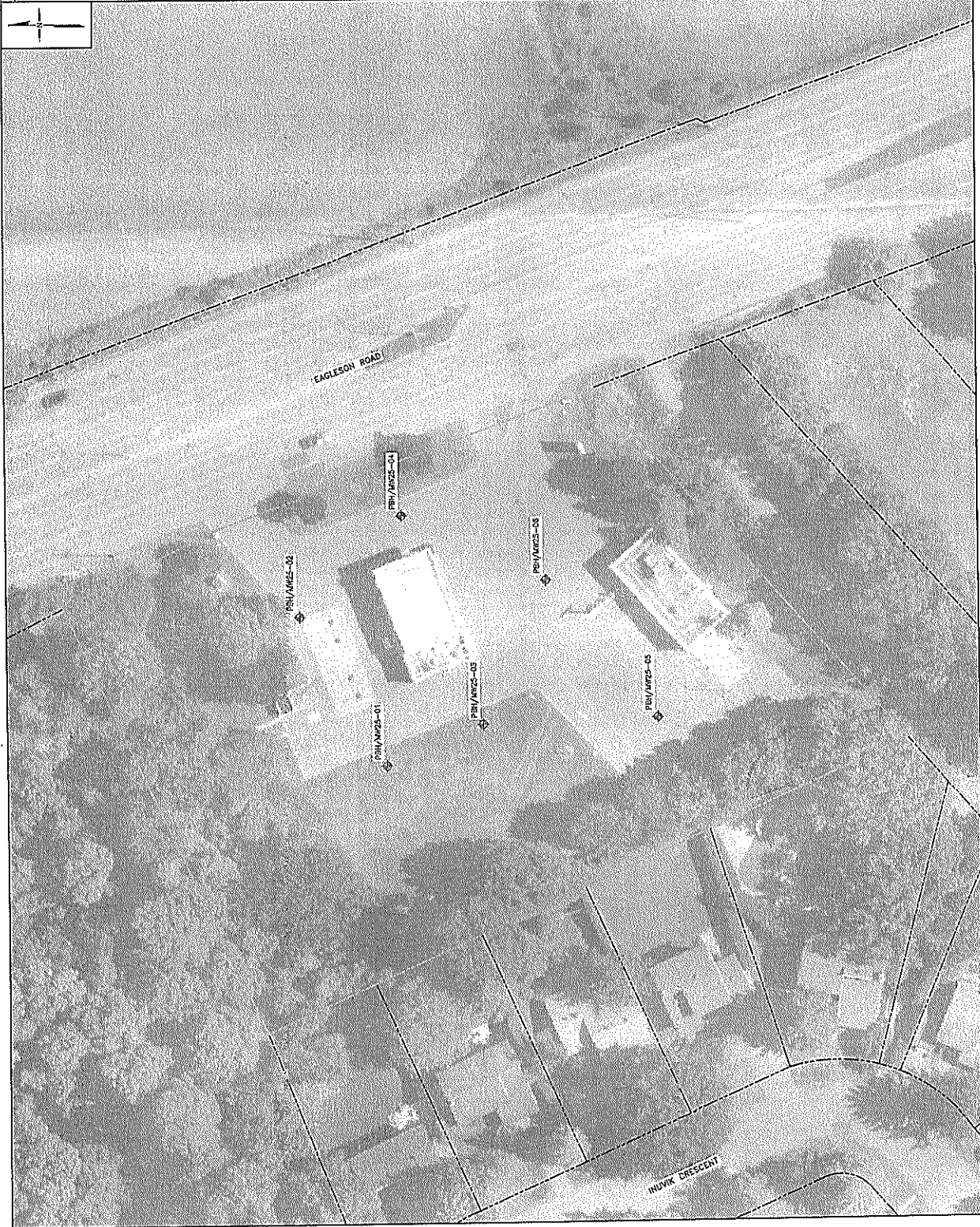
☐ Dewatering wells

☒ Test holes

No. of wells reported _____

Well Cluster Location Information													Mandatory Attachments/Additional Information			
Address of Well Location (Street Number(s)/Name(s), RR, if available)						Lot(s)		Concession(s)		Geographic Township			County/District/Upper Tier Municipality			
City, Town, Village or Hamlet						Province		GPS Unit Make		Model		Unit Mode of Operation ☐ Undifferentiated ☐ Averaged ☐ Differentiated, specify: _____				
Well Details													Signature of Technician/Contractor _____ Date (yyyy/mm/dd) _____			
Well # on Drawing	UTM Coordinates		Hole Depth (m/ft)	Hole Diameter (cm/in)	Method of Construction	Casing Material; Diameter (cm/in)	Casing (m/ft)		Screen Interval (m/ft)		Annular Space Material (m/ft)		Overburden/Bedrock or Abandonment Filing Material Intervals (m/ft)	Static Water Level (m/ft)	Date of Completion (yyyy/mm/dd)	
	Zone	Easting					Northing	From	To	From	To	From				To
MW 25-1	18	4308045018144	28'	0-17 1/2" 17-28 3/4"	Air Percussion	PVC 2"	0	18	18	28	0	17	Bentonite Sand	0-7 gravel 7-15 silty clay 15-28 Limestone	7'	2025/07/23
MW 25-5	18	4308155018099	15'	5" 17-28 3/4"	// Same as above	PVC 2"	0	10	10	15	0	9	Bentonite Sand	0-7 gravel 7-15 silty clay	7'	2025/07/23
MW 25-6	18	4308355018115	27'	0-17 1/2" 17-21 3/4"	//	PVC 2"	0	17	17	27	0	16	Bentonite Sand	0-7 gravel 7-14 silty clay 14-27 Limestone	7'	2025/07/24
MW 25-4	18	4308455018146	27'	0-17 1/2" 17-21 3/4"	//	PVC 2"	0	17	17	27	0	16	Bentonite Sand	0-7 gravel 7-14 silty clay 14-27 Limestone	7'	2025/07/24
MW 25-2	18	4308265018155	15'	5"	//	PVC 2"	0	10	10	15	0	9	Bentonite Sand	0-7 gravel 7-15 silty clay	7'	2025/07/24
MW 25-3	18	4308115018133	15'	5"	//	PVC 2"	0	10	10	15	0	9	Bentonite Sand	0-7 gravel 7-15 silty clay	8'	2025/07/25

Well Contractor and Well Technician Information					Date First Well in Cluster Constructed or Abandoned (yyyy/mm/dd)		Date Last Well in Cluster Completed (yyyy/mm/dd)		Ministry Use Only		
Business Name of Well Contractor		Business Address (Street Number/Name, RR)		Municipality	Province	2025/07/23		2025/07/25		Date Received (yyyy/mm/dd)	Audit No.
Strata Soil Sampling		129 Ringwood Dr		Stouffville	ON						C 67658
Postal Code	Bus. Telephone No.	Well Contractor's Licence No.	Business E-mail Address			Well Abandonment		Comments:			
L4A5C1	905 940 7919	7241				Person Abandoning the Wells:					
Name of Well Technician (First Name, Last Name)		Well Technician's Licence No.	Signature of Well Technician		Date Submitted (yyyy/mm/dd)	Name					
Brian Beatty		4451			2025/08/25	(Print or Type) - See instruction 11 on the back of this form					



LEGEND

- PROPOSED BOREHOLE/MONITORING WELL
- SITE PROPERTY LINE
- PROPERTY LINE

SCALE 1:600

0 12 24m

NOTES

1. SCALE AND SITE INFORMATION ARE APPROXIMATE. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND FORMAT.
2. 1" = 12 METRES

SOURCES

1. MICROSOFT BING MAPS, 2005

Client: SHELL CANADA PRODUCTS

Location: SHELL CANADA PRODUCTS

AtkinsRéalis

PROPOSED BOREHOLE/MONITORING WELL LOCATION PLAN

Scale: 1:600

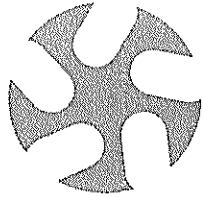
Date: 2005

Drawn by: [Name]

Checked by: [Name]

Figure: 1

Page: 1 of 1



Strata Drilling Group

1.866.7.STRATA (1.866.778.7282) www.stratadrillinggroup.com

To Whom It May Concern,

By signing the letter you the land owner is consenting to Strata Drilling Group to use one well record to report a well cluster of test holes or dewatering wells in accordance with section 16.4 of Regulation 903 made under the Ontario Water Resources Act for well numbers MW 25-1 to MW 25-6

Well Tag Number A412059

Please fill out the following information:

Property Address: 106 Eagleson Road, Kanata, Ontario

Property Location Description: Retail fuel outlet

Land Owners Name: Shell Canada Products

Land Owner Signature:

Land Owner Address: Suite 4000 - 500 Centre Street SE, Calgary, Alberta T2G 1A6

Date: July 16, 2025

Appendix C

Certificates of Analysis (Soil)



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053870-01-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/07/31
Report #: R8585813
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C588689

Received: 2025/07/22, 16:20

Sample Matrix: Soil
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	8	N/A	2025/07/28	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron (1)	3	2025/07/29	2025/07/29	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron (1)	4	2025/07/29	2025/07/30	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron (1)	1	2025/07/30	2025/07/30	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	8	N/A	2025/07/28		EPA 8260C m
Free (WAD) Cyanide (1)	8	2025/07/29	2025/07/29	CAM SOP-00457	OMOE E3015 m
Conductivity (1)	8	2025/07/29	2025/07/29	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1, 2)	8	2025/07/29	2025/07/29	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	8	2025/07/28	2025/07/28	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS (1)	8	2025/07/29	2025/07/29	CAM SOP-00447	EPA 6020B m
Moisture (1)	8	N/A	2025/07/25	CAM SOP-00445	Carter 2nd ed 70.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	8	2025/07/27	2025/07/27	CAM SOP-00318	EPA 8270E
pH CaCl2 EXTRACT (1)	5	2025/07/28	2025/07/28	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT (1)	3	2025/07/29	2025/07/29	CAM SOP-00413	EPA 9045 D m
Sieve, 75um (1)	1	N/A	2025/07/28	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR) (1)	8	N/A	2025/07/30	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs (1)	8	N/A	2025/07/25	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, EPA, APHA or the Quebec Ministry of Environment.

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.



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053870-01-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/07/31
Report #: R8585813
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C588689

Received: 2025/07/22, 16:20

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, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) Soils are reported on a dry weight basis unless otherwise specified.

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas 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:

Babandeep Kaur, Project Manager 2

Email: Babandeep.kaur@bureauveritas.com

Phone# (613) 274-0573

=====

This report has been generated and distributed using a secure automated process.

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ATGQ62			ATGQ63		ATGQ65		
Sampling Date		2025/07/22 09:55			2025/07/22 10:05		2025/07/22 13:40		
COC Number		C#1053870-01-01			C#1053870-01-01		C#1053870-01-01		
	UNITS	BH25-01-01	RDL	QC Batch	BH25-01-02	QC Batch	BH25-03-01	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A	8.9		9975262	16	9975262	3.4		9975262
-------------------------	-----	-----	--	---------	----	---------	-----	--	---------

Inorganics

Conductivity	mS/cm	0.43	0.002	9979079	0.62	9979079	0.24	0.002	9979079
Moisture	%	11	1.0	9977181	25	9977181	15	1.0	9977181
Available (CaCl ₂) pH	pH	7.62		9978125	7.73	9978861	7.52		9978125
WAD Cyanide (Free)	ug/g	<0.01	0.01	9978611	<0.01	9978611	<0.01	0.01	9978611

Miscellaneous Parameters

Grain Size	%	COARSE	N/A	9977110					
Sieve - #200 (<0.075mm)	%	48	1	9977110					
Sieve - #200 (>0.075mm)	%	52	1	9977110					

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Bureau Veritas ID		ATGQ65			ATGQ66			ATGQ66	
Sampling Date		2025/07/22 13:40			2025/07/22 13:50			2025/07/22 13:50	
COC Number		C#1053870-01-01			C#1053870-01-01			C#1053870-01-01	
	UNITS	BH25-03-01 Lab-Dup	RDL	QC Batch	BH25-03-02	RDL	QC Batch	BH25-03-02 Lab-Dup	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A				1.3		9975262		
-------------------------	-----	--	--	--	-----	--	---------	--	--

Inorganics

Conductivity	mS/cm				0.69	0.002	9979079		
Moisture	%				19	1.0	9977181		
Available (CaCl ₂) pH	pH				7.60		9978861	7.53	9978861
WAD Cyanide (Free)	ug/g	<0.01	0.01	9978611	<0.01	0.01	9978611		

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ATGQ67	ATGQ69	ATGQ70		ATGQ71		
Sampling Date		2025/07/22 10:50	2025/07/22 12:25	2025/07/22 15:15		2025/07/22 15:11		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		C#1053870-01-01		
	UNITS	BH25-04-02	BH25-06-02	BH25-02-02	QC Batch	BH25-02-022	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	9.3	14	16	9975262	11		9975262
Inorganics								
Conductivity	mS/cm	0.56	0.54	0.52	9979079	0.49	0.002	9979084
Moisture	%	11	11	12	9977181	13	1.0	9977181
Available (CaCl ₂) pH	pH	7.79	7.78	7.77	9978125	7.85		9978861
WAD Cyanide (Free)	ug/g	<0.01	<0.01	<0.01	9978611	<0.01	0.01	9978611
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ATGQ62		ATGQ63		ATGQ65		
Sampling Date		2025/07/22 09:55		2025/07/22 10:05		2025/07/22 13:40		
COC Number		C#1053870-01-01		C#1053870-01-01		C#1053870-01-01		
	UNITS	BH25-01-01	QC Batch	BH25-01-02	QC Batch	BH25-03-01	RDL	QC Batch
Inorganics								
Chromium (VI)	ug/g	<0.18	9979377	<0.18	9979377	<0.18	0.18	9979377
Metals								
Hot Water Ext. Boron (B)	ug/g	0.31	9978982	0.068	9980006	0.20	0.050	9978982
Acid Extractable Antimony (Sb)	ug/g	<0.20	9979090	<0.20	9979034	<0.20	0.20	9979034
Acid Extractable Arsenic (As)	ug/g	<1.0	9979090	1.1	9979034	1.1	1.0	9979034
Acid Extractable Barium (Ba)	ug/g	76	9979090	240	9979034	110	0.50	9979034
Acid Extractable Beryllium (Be)	ug/g	0.30	9979090	0.64	9979034	0.36	0.20	9979034
Acid Extractable Boron (B)	ug/g	<5.0	9979090	5.2	9979034	<5.0	5.0	9979034
Acid Extractable Cadmium (Cd)	ug/g	0.19	9979090	<0.10	9979034	0.15	0.10	9979034
Acid Extractable Chromium (Cr)	ug/g	19	9979090	55	9979034	25	1.0	9979034
Acid Extractable Cobalt (Co)	ug/g	5.4	9979090	14	9979034	6.8	0.10	9979034
Acid Extractable Copper (Cu)	ug/g	11	9979090	27	9979034	14	0.50	9979034
Acid Extractable Lead (Pb)	ug/g	13	9979090	7.4	9979034	9.9	1.0	9979034
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	9979090	<0.50	9979034	<0.50	0.50	9979034
Acid Extractable Nickel (Ni)	ug/g	10	9979090	32	9979034	14	0.50	9979034
Acid Extractable Selenium (Se)	ug/g	<0.50	9979090	<0.50	9979034	<0.50	0.50	9979034
Acid Extractable Silver (Ag)	ug/g	<0.20	9979090	<0.20	9979034	<0.20	0.20	9979034
Acid Extractable Thallium (Tl)	ug/g	0.083	9979090	0.28	9979034	0.12	0.050	9979034
Acid Extractable Uranium (U)	ug/g	0.46	9979090	0.59	9979034	0.53	0.050	9979034
Acid Extractable Vanadium (V)	ug/g	32	9979090	63	9979034	38	5.0	9979034
Acid Extractable Zinc (Zn)	ug/g	52	9979090	77	9979034	53	5.0	9979034
Acid Extractable Mercury (Hg)	ug/g	<0.050	9979090	<0.050	9979034	<0.050	0.050	9979034
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ATGQ66		ATGQ67	ATGQ69		
Sampling Date		2025/07/22 13:50		2025/07/22 10:50	2025/07/22 12:25		
COC Number		C#1053870-01-01		C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-03-02	QC Batch	BH25-04-02	BH25-06-02	RDL	QC Batch
Inorganics							
Chromium (VI)	ug/g	<0.18	9979377	<0.18	<0.18	0.18	9979377
Metals							
Hot Water Ext. Boron (B)	ug/g	0.12	9979102	0.17	0.20	0.050	9979102
Acid Extractable Antimony (Sb)	ug/g	<0.20	9979129	<0.20	<0.20	0.20	9979034
Acid Extractable Arsenic (As)	ug/g	1.1	9979129	<1.0	1.4	1.0	9979034
Acid Extractable Barium (Ba)	ug/g	230	9979129	37	51	0.50	9979034
Acid Extractable Beryllium (Be)	ug/g	0.66	9979129	0.24	0.37	0.20	9979034
Acid Extractable Boron (B)	ug/g	<5.0	9979129	<5.0	<5.0	5.0	9979034
Acid Extractable Cadmium (Cd)	ug/g	0.10	9979129	<0.10	<0.10	0.10	9979034
Acid Extractable Chromium (Cr)	ug/g	50	9979129	10	17	1.0	9979034
Acid Extractable Cobalt (Co)	ug/g	12	9979129	4.1	5.8	0.10	9979034
Acid Extractable Copper (Cu)	ug/g	23	9979129	7.0	8.8	0.50	9979034
Acid Extractable Lead (Pb)	ug/g	7.8	9979129	4.1	6.9	1.0	9979034
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	9979129	<0.50	<0.50	0.50	9979034
Acid Extractable Nickel (Ni)	ug/g	28	9979129	7.0	9.5	0.50	9979034
Acid Extractable Selenium (Se)	ug/g	<0.50	9979129	<0.50	<0.50	0.50	9979034
Acid Extractable Silver (Ag)	ug/g	<0.20	9979129	<0.20	<0.20	0.20	9979034
Acid Extractable Thallium (Tl)	ug/g	0.25	9979129	0.12	0.12	0.050	9979034
Acid Extractable Uranium (U)	ug/g	0.63	9979129	0.41	0.48	0.050	9979034
Acid Extractable Vanadium (V)	ug/g	59	9979129	25	39	5.0	9979034
Acid Extractable Zinc (Zn)	ug/g	69	9979129	18	30	5.0	9979034
Acid Extractable Mercury (Hg)	ug/g	<0.050	9979129	<0.050	<0.050	0.050	9979034
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ATGQ70		ATGQ71		
Sampling Date		2025/07/22 15:15		2025/07/22 15:11		
COC Number		C#1053870-01-01		C#1053870-01-01		
	UNITS	BH25-02-02	QC Batch	BH25-02-022	RDL	QC Batch
Inorganics						
Chromium (VI)	ug/g	<0.18	9979377	<0.18	0.18	9979377
Metals						
Hot Water Ext. Boron (B)	ug/g	0.18	9978982	0.18	0.050	9979102
Acid Extractable Antimony (Sb)	ug/g	<0.20	9979034	<0.20	0.20	9979034
Acid Extractable Arsenic (As)	ug/g	1.3	9979034	1.5	1.0	9979034
Acid Extractable Barium (Ba)	ug/g	130	9979034	150	0.50	9979034
Acid Extractable Beryllium (Be)	ug/g	0.49	9979034	0.49	0.20	9979034
Acid Extractable Boron (B)	ug/g	5.8	9979034	6.6	5.0	9979034
Acid Extractable Cadmium (Cd)	ug/g	<0.10	9979034	<0.10	0.10	9979034
Acid Extractable Chromium (Cr)	ug/g	33	9979034	35	1.0	9979034
Acid Extractable Cobalt (Co)	ug/g	9.3	9979034	9.7	0.10	9979034
Acid Extractable Copper (Cu)	ug/g	18	9979034	20	0.50	9979034
Acid Extractable Lead (Pb)	ug/g	6.7	9979034	6.8	1.0	9979034
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	9979034	<0.50	0.50	9979034
Acid Extractable Nickel (Ni)	ug/g	19	9979034	21	0.50	9979034
Acid Extractable Selenium (Se)	ug/g	<0.50	9979034	<0.50	0.50	9979034
Acid Extractable Silver (Ag)	ug/g	<0.20	9979034	<0.20	0.20	9979034
Acid Extractable Thallium (Tl)	ug/g	0.22	9979034	0.22	0.050	9979034
Acid Extractable Uranium (U)	ug/g	0.63	9979034	0.60	0.050	9979034
Acid Extractable Vanadium (V)	ug/g	47	9979034	48	5.0	9979034
Acid Extractable Zinc (Zn)	ug/g	49	9979034	52	5.0	9979034
Acid Extractable Mercury (Hg)	ug/g	<0.050	9979034	<0.050	0.050	9979034
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		ATGQ62	ATGQ63	ATGQ65	ATGQ66	ATGQ67		
Sampling Date		2025/07/22 09:55	2025/07/22 10:05	2025/07/22 13:40	2025/07/22 13:50	2025/07/22 10:50		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-01-01	BH25-01-02	BH25-03-01	BH25-03-02	BH25-04-02	RDL	QC Batch

Calculated Parameters

Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	9975113
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Polyaromatic Hydrocarbons

Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Benzo(a)anthracene	ug/g	0.0054	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Benzo(a)pyrene	ug/g	0.0078	<0.0050	0.0057	<0.0050	<0.0050	0.0050	9977696
Benzo(b,j)fluoranthene	ug/g	0.012	<0.0050	0.0083	0.0064	<0.0050	0.0050	9977696
Benzo(g,h,i)perylene	ug/g	0.0092	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Chrysene	ug/g	0.0064	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Fluoranthene	ug/g	0.015	<0.0050	0.0085	0.0073	<0.0050	0.0050	9977696
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Indeno(1,2,3-cd)pyrene	ug/g	0.0071	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Phenanthrene	ug/g	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977696
Pyrene	ug/g	0.012	<0.0050	0.0069	0.0069	<0.0050	0.0050	9977696

Surrogate Recovery (%)

D10-Anthracene	%	112	112	113	112	112		9977696
D14-Terphenyl (FS)	%	94	97	97	99	99		9977696
D8-Acenaphthylene	%	88	85	87	86	85		9977696

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		ATGQ69	ATGQ70	ATGQ71		
Sampling Date		2025/07/22 12:25	2025/07/22 15:15	2025/07/22 15:11		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-06-02	BH25-02-02	BH25-02-022	RDL	QC Batch
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	0.0071	9975113
Polyaromatic Hydrocarbons						
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	9977696
Surrogate Recovery (%)						
D10-Anthracene	%	110	114	115		9977696
D14-Terphenyl (FS)	%	96	97	99		9977696
D8-Acenaphthylene	%	84	86	86		9977696
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATGQ62	ATGQ63	ATGQ65	ATGQ66		
Sampling Date		2025/07/22 09:55	2025/07/22 10:05	2025/07/22 13:40	2025/07/22 13:50		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-01-01	BH25-01-02	BH25-03-01	BH25-03-02	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	9975143
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	<0.49	0.49	9976231
Benzene	ug/g	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	9976231
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Bromoform	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Bromomethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Chloroform	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	<0.049	0.049	9976231
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	<0.030	0.030	9976231
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	9976231
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Hexane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	<0.049	0.049	9976231
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	<0.40	0.40	9976231
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	<0.40	0.40	9976231
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Styrene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATGQ62	ATGQ63	ATGQ65	ATGQ66		
Sampling Date		2025/07/22 09:55	2025/07/22 10:05	2025/07/22 13:40	2025/07/22 13:50		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-01-01	BH25-01-02	BH25-03-01	BH25-03-02	RDL	QC Batch
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	9976231
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	9976231
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	<0.019	0.019	9976231
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	9976231
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	9976231
Total Xylenes	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	9976231
F1 (C6-C10)	ug/g	<10	<10	<10	<10	10	9976231
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	10	9976231
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	104	104	102	103		9976231
D10-o-Xylene	%	97	103	101	96		9976231
D4-1,2-Dichloroethane	%	101	101	102	101		9976231
D8-Toluene	%	94	95	96	95		9976231
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATGQ67	ATGQ69	ATGQ70	ATGQ71		
Sampling Date		2025/07/22 10:50	2025/07/22 12:25	2025/07/22 15:15	2025/07/22 15:11		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-04-02	BH25-06-02	BH25-02-02	BH25-02-022	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	9975143
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	<0.49	0.49	9976231
Benzene	ug/g	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	9976231
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Bromoform	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Bromomethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Chloroform	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	<0.049	0.049	9976231
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	<0.030	0.030	9976231
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	9976231
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Hexane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	<0.049	0.049	9976231
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	<0.40	0.40	9976231
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	<0.40	0.40	9976231
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Styrene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATGQ67	ATGQ69	ATGQ70	ATGQ71		
Sampling Date		2025/07/22 10:50	2025/07/22 12:25	2025/07/22 15:15	2025/07/22 15:11		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-04-02	BH25-06-02	BH25-02-02	BH25-02-022	RDL	QC Batch
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	9976231
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	<0.010	0.010	9976231
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	<0.040	0.040	9976231
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	<0.019	0.019	9976231
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	9976231
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	9976231
Total Xylenes	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	9976231
F1 (C6-C10)	ug/g	<10	<10	<10	<10	10	9976231
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	10	9976231
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	102	102	102	103		9976231
D10-o-Xylene	%	102	98	98	106		9976231
D4-1,2-Dichloroethane	%	101	103	103	104		9976231
D8-Toluene	%	96	95	96	96		9976231
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ATGQ62	ATGQ62	ATGQ63	ATGQ65	ATGQ66		
Sampling Date		2025/07/22 09:55	2025/07/22 09:55	2025/07/22 10:05	2025/07/22 13:40	2025/07/22 13:50		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-01-01	BH25-01-01 Lab-Dup	BH25-01-02	BH25-03-01	BH25-03-02	RDL	QC Batch

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/g	<7.0	<7.0	<7.0	<7.0	<7.0	7.0	9978089
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	50	9978089
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	50	9978089
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes		9978089

Surrogate Recovery (%)

o-Terphenyl	%	96	92	89	91	88		9978089
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ATGQ67	ATGQ69	ATGQ70	ATGQ71		
Sampling Date		2025/07/22 10:50	2025/07/22 12:25	2025/07/22 15:15	2025/07/22 15:11		
COC Number		C#1053870-01-01	C#1053870-01-01	C#1053870-01-01	C#1053870-01-01		
	UNITS	BH25-04-02	BH25-06-02	BH25-02-02	BH25-02-022	RDL	QC Batch

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/g	<7.0	<7.0	<7.0	<7.0	7.0	9978089
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	50	9978089
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	50	9978089
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes		9978089

Surrogate Recovery (%)

o-Terphenyl	%	93	90	92	91		9978089
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATGQ62
Sample ID: BH25-01-01
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9975113	N/A	2025/07/28	Automated Statchk
Hot Water Extractable Boron	ICP	9978982	2025/07/29	2025/07/29	Suban Kanapathipillai
1,3-Dichloropropene Sum	CALC	9975143	N/A	2025/07/28	Automated Statchk
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal
Conductivity	AT	9979079	2025/07/29	2025/07/29	Gurpartee K AUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979377	2025/07/29	2025/07/29	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9979090	2025/07/29	2025/07/29	Gagandeep Rai
Moisture	BAL	9977181	N/A	2025/07/25	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9977696	2025/07/27	2025/07/27	Jett Wu
pH CaCl2 EXTRACT	AT	9978125	2025/07/28	2025/07/28	Sreena Thekkoot
Sieve, 75um	SIEV	9977110	N/A	2025/07/28	Nisargsinh Takhatsinh Parihar
Sodium Adsorption Ratio (SAR)	CALC/MET	9975262	N/A	2025/07/30	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9976231	N/A	2025/07/25	Denis Reid

Bureau Veritas ID: ATGQ62 Dup
Sample ID: BH25-01-01
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko

Bureau Veritas ID: ATGQ63
Sample ID: BH25-01-02
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9975113	N/A	2025/07/28	Automated Statchk
Hot Water Extractable Boron	ICP	9980006	2025/07/30	2025/07/30	Jaswinder Kaur
1,3-Dichloropropene Sum	CALC	9975143	N/A	2025/07/28	Automated Statchk
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal
Conductivity	AT	9979079	2025/07/29	2025/07/29	Gurpartee K AUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979377	2025/07/29	2025/07/29	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9979034	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977181	N/A	2025/07/25	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9977696	2025/07/27	2025/07/27	Jett Wu
pH CaCl2 EXTRACT	AT	9978861	2025/07/29	2025/07/29	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9975262	N/A	2025/07/30	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9976231	N/A	2025/07/25	Denis Reid



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: GS

TEST SUMMARY

Bureau Veritas ID: ATGQ65
Sample ID: BH25-03-01
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9975113	N/A	2025/07/28	Automated Statchk
Hot Water Extractable Boron	ICP	9978982	2025/07/29	2025/07/29	Suban Kanapathipillai
1,3-Dichloropropene Sum	CALC	9975143	N/A	2025/07/28	Automated Statchk
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal
Conductivity	AT	9979079	2025/07/29	2025/07/29	Gurpartee K AUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979377	2025/07/29	2025/07/29	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9979034	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977181	N/A	2025/07/25	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9977696	2025/07/27	2025/07/27	Jett Wu
pH CaCl2 EXTRACT	AT	9978125	2025/07/28	2025/07/28	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9975262	N/A	2025/07/30	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9976231	N/A	2025/07/25	Denis Reid

Bureau Veritas ID: ATGQ65 Dup
Sample ID: BH25-03-01
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal

Bureau Veritas ID: ATGQ66
Sample ID: BH25-03-02
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9975113	N/A	2025/07/28	Automated Statchk
Hot Water Extractable Boron	ICP	9979102	2025/07/29	2025/07/30	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9975143	N/A	2025/07/28	Automated Statchk
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal
Conductivity	AT	9979079	2025/07/29	2025/07/29	Gurpartee K AUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979377	2025/07/29	2025/07/29	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9979129	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977181	N/A	2025/07/25	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9977696	2025/07/27	2025/07/27	Jett Wu
pH CaCl2 EXTRACT	AT	9978861	2025/07/29	2025/07/29	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9975262	N/A	2025/07/30	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9976231	N/A	2025/07/25	Denis Reid

Bureau Veritas ID: ATGQ66 Dup
Sample ID: BH25-03-02
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	9978861	2025/07/29	2025/07/29	Sreena Thekkoot



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: GS

TEST SUMMARY

Bureau Veritas ID: ATGQ67
Sample ID: BH25-04-02
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9975113	N/A	2025/07/28	Automated Statchk
Hot Water Extractable Boron	ICP	9979102	2025/07/29	2025/07/30	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9975143	N/A	2025/07/28	Automated Statchk
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal
Conductivity	AT	9979079	2025/07/29	2025/07/29	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979377	2025/07/29	2025/07/29	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9979034	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977181	N/A	2025/07/25	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9977696	2025/07/27	2025/07/27	Jett Wu
pH CaCl2 EXTRACT	AT	9978125	2025/07/28	2025/07/28	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9975262	N/A	2025/07/30	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9976231	N/A	2025/07/25	Denis Reid

Bureau Veritas ID: ATGQ69
Sample ID: BH25-06-02
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9975113	N/A	2025/07/28	Automated Statchk
Hot Water Extractable Boron	ICP	9979102	2025/07/29	2025/07/30	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9975143	N/A	2025/07/28	Automated Statchk
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal
Conductivity	AT	9979079	2025/07/29	2025/07/29	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979377	2025/07/29	2025/07/29	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9979034	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977181	N/A	2025/07/25	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9977696	2025/07/27	2025/07/27	Jett Wu
pH CaCl2 EXTRACT	AT	9978125	2025/07/28	2025/07/28	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9975262	N/A	2025/07/30	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9976231	N/A	2025/07/25	Denis Reid

Bureau Veritas ID: ATGQ70
Sample ID: BH25-02-02
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9975113	N/A	2025/07/28	Automated Statchk
Hot Water Extractable Boron	ICP	9978982	2025/07/29	2025/07/29	Suban Kanapathipillai
1,3-Dichloropropene Sum	CALC	9975143	N/A	2025/07/28	Automated Statchk
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal
Conductivity	AT	9979079	2025/07/29	2025/07/29	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979377	2025/07/29	2025/07/29	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko



Bureau Veritas Job #: C588689

Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.

Client Project #: 705228

Your P.O. #: 49644

Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATGQ70
Sample ID: BH25-02-02
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9979034	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977181	N/A	2025/07/25	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9977696	2025/07/27	2025/07/27	Jett Wu
pH CaCl2 EXTRACT	AT	9978125	2025/07/28	2025/07/28	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9975262	N/A	2025/07/30	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9976231	N/A	2025/07/25	Denis Reid

Bureau Veritas ID: ATGQ71
Sample ID: BH25-02-022
Matrix: Soil

Collected: 2025/07/22
Shipped:
Received: 2025/07/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9975113	N/A	2025/07/28	Automated Statchk
Hot Water Extractable Boron	ICP	9979102	2025/07/29	2025/07/30	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9975143	N/A	2025/07/28	Automated Statchk
Free (WAD) Cyanide	TECH	9978611	2025/07/29	2025/07/29	Prgya Panchal
Conductivity	AT	9979084	2025/07/29	2025/07/29	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979377	2025/07/29	2025/07/29	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978089	2025/07/28	2025/07/28	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9979034	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977181	N/A	2025/07/25	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9977696	2025/07/27	2025/07/27	Jett Wu
pH CaCl2 EXTRACT	AT	9978861	2025/07/29	2025/07/29	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9975262	N/A	2025/07/30	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9976231	N/A	2025/07/25	Denis Reid



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.0°C
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Results relate only to the items tested.



Bureau Veritas Job #: C588689

Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.

Client Project #: 705228

Your P.O. #: 49644

Sampler Initials: SG

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9976231	DR1	Matrix Spike	4-Bromofluorobenzene	2025/07/25		104	%	60 - 140
			D10-o-Xylene	2025/07/25		104	%	60 - 130
			D4-1,2-Dichloroethane	2025/07/25		100	%	60 - 140
			D8-Toluene	2025/07/25		97	%	60 - 140
			Acetone (2-Propanone)	2025/07/25		85	%	60 - 140
			Benzene	2025/07/25		95	%	60 - 140
			Bromodichloromethane	2025/07/25		89	%	60 - 140
			Bromoform	2025/07/25		90	%	60 - 140
			Bromomethane	2025/07/25		103	%	60 - 140
			Carbon Tetrachloride	2025/07/25		99	%	60 - 140
			Chlorobenzene	2025/07/25		86	%	60 - 140
			Chloroform	2025/07/25		93	%	60 - 140
			Dibromochloromethane	2025/07/25		115	%	60 - 140
			1,2-Dichlorobenzene	2025/07/25		92	%	60 - 140
			1,3-Dichlorobenzene	2025/07/25		93	%	60 - 140
			1,4-Dichlorobenzene	2025/07/25		93	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2025/07/25		111	%	60 - 140
			1,1-Dichloroethane	2025/07/25		89	%	60 - 140
			1,2-Dichloroethane	2025/07/25		97	%	60 - 140
			1,1-Dichloroethylene	2025/07/25		90	%	60 - 140
			cis-1,2-Dichloroethylene	2025/07/25		100	%	60 - 140
			trans-1,2-Dichloroethylene	2025/07/25		95	%	60 - 140
			1,2-Dichloropropane	2025/07/25		92	%	60 - 140
			cis-1,3-Dichloropropene	2025/07/25		94	%	60 - 140
			trans-1,3-Dichloropropene	2025/07/25		97	%	60 - 140
			Ethylbenzene	2025/07/25		86	%	60 - 140
			Ethylene Dibromide	2025/07/25		92	%	60 - 140
			Hexane	2025/07/25		98	%	60 - 140
			Methylene Chloride(Dichloromethane)	2025/07/25		102	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2025/07/25		87	%	60 - 140
			Methyl Isobutyl Ketone	2025/07/25		87	%	60 - 140
			Methyl t-butyl ether (MTBE)	2025/07/25		92	%	60 - 140
			Styrene	2025/07/25		82	%	60 - 140
			1,1,1,2-Tetrachloroethane	2025/07/25		98	%	60 - 140
			1,1,2,2-Tetrachloroethane	2025/07/25		83	%	60 - 140
			Tetrachloroethylene	2025/07/25		96	%	60 - 140
			Toluene	2025/07/25		89	%	60 - 140
			1,1,1-Trichloroethane	2025/07/25		91	%	60 - 140
			1,1,2-Trichloroethane	2025/07/25		89	%	60 - 140
			Trichloroethylene	2025/07/25		102	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2025/07/25		96	%	60 - 140
			Vinyl Chloride	2025/07/25		94	%	60 - 140
			p+m-Xylene	2025/07/25		84	%	60 - 140
			o-Xylene	2025/07/25		93	%	60 - 140
			F1 (C6-C10)	2025/07/25		87	%	60 - 140
9976231	DR1	Spiked Blank	4-Bromofluorobenzene	2025/07/25		104	%	60 - 140
			D10-o-Xylene	2025/07/25		101	%	60 - 130
			D4-1,2-Dichloroethane	2025/07/25		99	%	60 - 140
			D8-Toluene	2025/07/25		97	%	60 - 140
			Acetone (2-Propanone)	2025/07/25		85	%	60 - 140
			Benzene	2025/07/25		94	%	60 - 130
			Bromodichloromethane	2025/07/25		89	%	60 - 130
			Bromoform	2025/07/25		94	%	60 - 130



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Bromomethane	2025/07/25		99	%	60 - 140
				Carbon Tetrachloride	2025/07/25		98	%	60 - 130
				Chlorobenzene	2025/07/25		87	%	60 - 130
				Chloroform	2025/07/25		92	%	60 - 130
				Dibromochloromethane	2025/07/25		118	%	60 - 130
				1,2-Dichlorobenzene	2025/07/25		92	%	60 - 130
				1,3-Dichlorobenzene	2025/07/25		91	%	60 - 130
				1,4-Dichlorobenzene	2025/07/25		92	%	60 - 130
				Dichlorodifluoromethane (FREON 12)	2025/07/25		111	%	60 - 140
				1,1-Dichloroethane	2025/07/25		88	%	60 - 130
				1,2-Dichloroethane	2025/07/25		96	%	60 - 130
				1,1-Dichloroethylene	2025/07/25		89	%	60 - 130
				cis-1,2-Dichloroethylene	2025/07/25		99	%	60 - 130
				trans-1,2-Dichloroethylene	2025/07/25		93	%	60 - 130
				1,2-Dichloropropane	2025/07/25		92	%	60 - 130
				cis-1,3-Dichloropropene	2025/07/25		89	%	60 - 130
				trans-1,3-Dichloropropene	2025/07/25		91	%	60 - 130
				Ethylbenzene	2025/07/25		86	%	60 - 130
				Ethylene Dibromide	2025/07/25		94	%	60 - 130
				Hexane	2025/07/25		96	%	60 - 130
				Methylene Chloride(Dichloromethane)	2025/07/25		101	%	60 - 130
				Methyl Ethyl Ketone (2-Butanone)	2025/07/25		90	%	60 - 140
				Methyl Isobutyl Ketone	2025/07/25		91	%	60 - 130
				Methyl t-butyl ether (MTBE)	2025/07/25		91	%	60 - 130
				Styrene	2025/07/25		83	%	60 - 130
				1,1,1,2-Tetrachloroethane	2025/07/25		99	%	60 - 130
				1,1,2,2-Tetrachloroethane	2025/07/25		87	%	60 - 130
				Tetrachloroethylene	2025/07/25		95	%	60 - 130
				Toluene	2025/07/25		89	%	60 - 130
				1,1,1-Trichloroethane	2025/07/25		90	%	60 - 130
				1,1,2-Trichloroethane	2025/07/25		90	%	60 - 130
				Trichloroethylene	2025/07/25		100	%	60 - 130
				Trichlorofluoromethane (FREON 11)	2025/07/25		95	%	60 - 130
				Vinyl Chloride	2025/07/25		93	%	60 - 130
				p+m-Xylene	2025/07/25		84	%	60 - 130
				o-Xylene	2025/07/25		93	%	60 - 130
				F1 (C6-C10)	2025/07/25		84	%	80 - 120
9976231	DR1	Method Blank		4-Bromofluorobenzene	2025/07/25		103	%	60 - 140
				D10-o-Xylene	2025/07/25		101	%	60 - 130
				D4-1,2-Dichloroethane	2025/07/25		97	%	60 - 140
				D8-Toluene	2025/07/25		96	%	60 - 140
				Acetone (2-Propanone)	2025/07/25	<0.49		ug/g	
				Benzene	2025/07/25	<0.0060		ug/g	
				Bromodichloromethane	2025/07/25	<0.040		ug/g	
				Bromoform	2025/07/25	<0.040		ug/g	
				Bromomethane	2025/07/25	<0.040		ug/g	
				Carbon Tetrachloride	2025/07/25	<0.040		ug/g	
				Chlorobenzene	2025/07/25	<0.040		ug/g	
				Chloroform	2025/07/25	<0.040		ug/g	
				Dibromochloromethane	2025/07/25	<0.040		ug/g	
				1,2-Dichlorobenzene	2025/07/25	<0.040		ug/g	
				1,3-Dichlorobenzene	2025/07/25	<0.040		ug/g	
				1,4-Dichlorobenzene	2025/07/25	<0.040		ug/g	



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Dichlorodifluoromethane (FREON 12)	2025/07/25	<0.040		ug/g	
				1,1-Dichloroethane	2025/07/25	<0.040		ug/g	
				1,2-Dichloroethane	2025/07/25	<0.049		ug/g	
				1,1-Dichloroethylene	2025/07/25	<0.040		ug/g	
				cis-1,2-Dichloroethylene	2025/07/25	<0.040		ug/g	
				trans-1,2-Dichloroethylene	2025/07/25	<0.040		ug/g	
				1,2-Dichloropropane	2025/07/25	<0.040		ug/g	
				cis-1,3-Dichloropropene	2025/07/25	<0.030		ug/g	
				trans-1,3-Dichloropropene	2025/07/25	<0.040		ug/g	
				Ethylbenzene	2025/07/25	<0.010		ug/g	
				Ethylene Dibromide	2025/07/25	<0.040		ug/g	
				Hexane	2025/07/25	<0.040		ug/g	
				Methylene Chloride(Dichloromethane)	2025/07/25	<0.049		ug/g	
				Methyl Ethyl Ketone (2-Butanone)	2025/07/25	<0.40		ug/g	
				Methyl Isobutyl Ketone	2025/07/25	<0.40		ug/g	
				Methyl t-butyl ether (MTBE)	2025/07/25	<0.040		ug/g	
				Styrene	2025/07/25	<0.040		ug/g	
				1,1,1,2-Tetrachloroethane	2025/07/25	<0.040		ug/g	
				1,1,2,2-Tetrachloroethane	2025/07/25	<0.040		ug/g	
				Tetrachloroethylene	2025/07/25	<0.040		ug/g	
				Toluene	2025/07/25	<0.020		ug/g	
				1,1,1-Trichloroethane	2025/07/25	<0.040		ug/g	
				1,1,2-Trichloroethane	2025/07/25	<0.040		ug/g	
				Trichloroethylene	2025/07/25	<0.010		ug/g	
				Trichlorofluoromethane (FREON 11)	2025/07/25	<0.040		ug/g	
				Vinyl Chloride	2025/07/25	<0.019		ug/g	
				p+m-Xylene	2025/07/25	<0.020		ug/g	
				o-Xylene	2025/07/25	<0.020		ug/g	
				Total Xylenes	2025/07/25	<0.020		ug/g	
				F1 (C6-C10)	2025/07/25	<10		ug/g	
				F1 (C6-C10) - BTEX	2025/07/25	<10		ug/g	
9976231	DR1	RPD		Acetone (2-Propanone)	2025/07/25	NC		%	50
				Benzene	2025/07/25	NC		%	50
				Bromodichloromethane	2025/07/25	NC		%	50
				Bromoform	2025/07/25	NC		%	50
				Bromomethane	2025/07/25	NC		%	50
				Carbon Tetrachloride	2025/07/25	NC		%	50
				Chlorobenzene	2025/07/25	NC		%	50
				Chloroform	2025/07/25	NC		%	50
				Dibromochloromethane	2025/07/25	NC		%	50
				1,2-Dichlorobenzene	2025/07/25	NC		%	50
				1,3-Dichlorobenzene	2025/07/25	NC		%	50
				1,4-Dichlorobenzene	2025/07/25	NC		%	50
				Dichlorodifluoromethane (FREON 12)	2025/07/25	NC		%	50
				1,1-Dichloroethane	2025/07/25	NC		%	50
				1,2-Dichloroethane	2025/07/25	NC		%	50
				1,1-Dichloroethylene	2025/07/25	NC		%	50
				cis-1,2-Dichloroethylene	2025/07/25	NC		%	50
				trans-1,2-Dichloroethylene	2025/07/25	NC		%	50
				1,2-Dichloropropane	2025/07/25	NC		%	50
				cis-1,3-Dichloropropene	2025/07/25	NC		%	50
				trans-1,3-Dichloropropene	2025/07/25	NC		%	50
				Ethylbenzene	2025/07/25	NC		%	50



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Ethylene Dibromide	2025/07/25	NC		%	50
			Hexane	2025/07/25	NC		%	50
			Methylene Chloride(Dichloromethane)	2025/07/25	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2025/07/25	NC		%	50
			Methyl Isobutyl Ketone	2025/07/25	NC		%	50
			Methyl t-butyl ether (MTBE)	2025/07/25	NC		%	50
			Styrene	2025/07/25	NC		%	50
			1,1,1,2-Tetrachloroethane	2025/07/25	NC		%	50
			1,1,2,2-Tetrachloroethane	2025/07/25	NC		%	50
			Tetrachloroethylene	2025/07/25	NC		%	50
			Toluene	2025/07/25	NC		%	50
			1,1,1-Trichloroethane	2025/07/25	NC		%	50
			1,1,2-Trichloroethane	2025/07/25	NC		%	50
			Trichloroethylene	2025/07/25	NC		%	50
			Trichlorofluoromethane (FREON 11)	2025/07/25	NC		%	50
			Vinyl Chloride	2025/07/25	NC		%	50
			p+m-Xylene	2025/07/25	NC		%	50
			o-Xylene	2025/07/25	NC		%	50
			Total Xylenes	2025/07/25	NC		%	50
			F1 (C6-C10)	2025/07/25	NC		%	30
			F1 (C6-C10) - BTEX	2025/07/25	NC		%	30
9977110	NTP	QC Standard	Sieve - #200 (<0.075mm)	2025/07/28		56	%	53 - 58
			Sieve - #200 (>0.075mm)	2025/07/28		44	%	42 - 47
9977110	NTP	RPD	Sieve - #200 (<0.075mm)	2025/07/28	0.63		%	20
			Sieve - #200 (>0.075mm)	2025/07/28	1.2		%	20
9977181	JTS	RPD	Moisture	2025/07/25	2.5		%	20
9977696	JET	Matrix Spike	D10-Anthracene	2025/07/27		97	%	50 - 130
			D14-Terphenyl (FS)	2025/07/27		97	%	50 - 130
			D8-Acenaphthylene	2025/07/27		89	%	50 - 130
			Acenaphthene	2025/07/27		94	%	50 - 130
			Acenaphthylene	2025/07/27		81	%	50 - 130
			Anthracene	2025/07/27		117	%	50 - 130
			Benzo(a)anthracene	2025/07/27		NC	%	50 - 130
			Benzo(a)pyrene	2025/07/27		NC	%	50 - 130
			Benzo(b/j)fluoranthene	2025/07/27		129	%	50 - 130
			Benzo(g,h,i)perylene	2025/07/27		127	%	50 - 130
			Benzo(k)fluoranthene	2025/07/27		123	%	50 - 130
			Chrysene	2025/07/27		NC	%	50 - 130
			Dibenzo(a,h)anthracene	2025/07/27		93	%	50 - 130
			Fluoranthene	2025/07/27		NC	%	50 - 130
			Fluorene	2025/07/27		97	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/07/27		120	%	50 - 130
			1-Methylnaphthalene	2025/07/27		94	%	50 - 130
			2-Methylnaphthalene	2025/07/27		100	%	50 - 130
			Naphthalene	2025/07/27		92	%	50 - 130
			Phenanthrene	2025/07/27		NC	%	50 - 130
			Pyrene	2025/07/27		NC	%	50 - 130
9977696	JET	Spiked Blank	D10-Anthracene	2025/07/27		109	%	50 - 130
			D14-Terphenyl (FS)	2025/07/27		99	%	50 - 130
			D8-Acenaphthylene	2025/07/27		88	%	50 - 130
			Acenaphthene	2025/07/27		84	%	50 - 130
			Acenaphthylene	2025/07/27		84	%	50 - 130
			Anthracene	2025/07/27		105	%	50 - 130



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9977696	JET	Method Blank	Benzo(a)anthracene	2025/07/27		90	%	50 - 130	
			Benzo(a)pyrene	2025/07/27		88	%	50 - 130	
			Benzo(b/j)fluoranthene	2025/07/27		89	%	50 - 130	
			Benzo(g,h,i)perylene	2025/07/27		93	%	50 - 130	
			Benzo(k)fluoranthene	2025/07/27		88	%	50 - 130	
			Chrysene	2025/07/27		88	%	50 - 130	
			Dibenzo(a,h)anthracene	2025/07/27		83	%	50 - 130	
			Fluoranthene	2025/07/27		95	%	50 - 130	
			Fluorene	2025/07/27		91	%	50 - 130	
			Indeno(1,2,3-cd)pyrene	2025/07/27		96	%	50 - 130	
			1-Methylnaphthalene	2025/07/27		87	%	50 - 130	
			2-Methylnaphthalene	2025/07/27		89	%	50 - 130	
			Naphthalene	2025/07/27		84	%	50 - 130	
			Phenanthrene	2025/07/27		87	%	50 - 130	
			Pyrene	2025/07/27		94	%	50 - 130	
			D10-Anthracene	2025/07/27		118	%	50 - 130	
			D14-Terphenyl (FS)	2025/07/27		106	%	50 - 130	
			D8-Acenaphthylene	2025/07/27		88	%	50 - 130	
			Acenaphthene	2025/07/27	<0.0050		ug/g		
			Acenaphthylene	2025/07/27	<0.0050		ug/g		
			Anthracene	2025/07/27	<0.0050		ug/g		
			Benzo(a)anthracene	2025/07/27	<0.0050		ug/g		
			Benzo(a)pyrene	2025/07/27	<0.0050		ug/g		
			Benzo(b/j)fluoranthene	2025/07/27	<0.0050		ug/g		
			Benzo(g,h,i)perylene	2025/07/27	<0.0050		ug/g		
			Benzo(k)fluoranthene	2025/07/27	<0.0050		ug/g		
			Chrysene	2025/07/27	<0.0050		ug/g		
			Dibenzo(a,h)anthracene	2025/07/27	<0.0050		ug/g		
			Fluoranthene	2025/07/27	<0.0050		ug/g		
			Fluorene	2025/07/27	<0.0050		ug/g		
			Indeno(1,2,3-cd)pyrene	2025/07/27	<0.0050		ug/g		
			1-Methylnaphthalene	2025/07/27	<0.0050		ug/g		
			2-Methylnaphthalene	2025/07/27	<0.0050		ug/g		
			Naphthalene	2025/07/27	<0.0050		ug/g		
			Phenanthrene	2025/07/27	<0.0050		ug/g		
			Pyrene	2025/07/27	<0.0050		ug/g		
9977696	JET	RPD	Acenaphthene	2025/07/27	4.6		%	40	
			Acenaphthylene	2025/07/27	NC		%	40	
			Anthracene	2025/07/27	3.2		%	40	
			Benzo(a)anthracene	2025/07/27	17		%	40	
			Benzo(a)pyrene	2025/07/27	8.2		%	40	
			Benzo(b/j)fluoranthene	2025/07/27	5.6		%	40	
			Benzo(g,h,i)perylene	2025/07/27	1.2		%	40	
			Benzo(k)fluoranthene	2025/07/27	5.5		%	40	
			Chrysene	2025/07/27	0.19		%	40	
			Dibenzo(a,h)anthracene	2025/07/27	NC		%	40	
			Fluoranthene	2025/07/27	1.1		%	40	
			Fluorene	2025/07/27	NC		%	40	
			Indeno(1,2,3-cd)pyrene	2025/07/27	0.68		%	40	
			1-Methylnaphthalene	2025/07/27	NC		%	40	
			2-Methylnaphthalene	2025/07/27	NC		%	40	
			Naphthalene	2025/07/27	NC		%	40	
			Phenanthrene	2025/07/27	4.9		%	40	



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9978089	ABS	Matrix Spike [ATGQ62-02]	Pyrene	2025/07/27	1.4		%	40
			o-Terphenyl	2025/07/28		97	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/28		95	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/07/28		100	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/07/28		97	%	60 - 140
9978089	ABS	Spiked Blank	o-Terphenyl	2025/07/28		88	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/28		86	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2025/07/28		89	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2025/07/28		86	%	80 - 120
			o-Terphenyl	2025/07/28		91	%	60 - 140
9978089	ABS	Method Blank	F2 (C10-C16 Hydrocarbons)	2025/07/28	<7.0		ug/g	
			F3 (C16-C34 Hydrocarbons)	2025/07/28	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2025/07/28	<50		ug/g	
			F2 (C10-C16 Hydrocarbons)	2025/07/28	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2025/07/28	NC		%	30
9978089	ABS	RPD [ATGQ62-02]	F4 (C34-C50 Hydrocarbons)	2025/07/28	NC		%	30
			Available (CaCl2) pH	2025/07/28		100	%	97 - 103
			Available (CaCl2) pH	2025/07/28	0.42		%	N/A
			WAD Cyanide (Free)	2025/07/29		91	%	75 - 125
			WAD Cyanide (Free)	2025/07/29		97	%	80 - 120
9978125	SRT	Spiked Blank	WAD Cyanide (Free)	2025/07/29	<0.01		ug/g	
9978125	SRT	RPD	WAD Cyanide (Free)	2025/07/29	NC		%	35
9978611	GYA	Matrix Spike [ATGQ65-01]	WAD Cyanide (Free)	2025/07/29	NC		%	35
9978611	GYA	Spiked Blank	Available (CaCl2) pH	2025/07/29		100	%	97 - 103
9978611	GYA	Method Blank	Available (CaCl2) pH	2025/07/29	0.82		%	N/A
9978611	GYA	RPD [ATGQ65-01]	Hot Water Ext. Boron (B)	2025/07/29		100	%	75 - 125
9978861	SRT	Spiked Blank	Hot Water Ext. Boron (B)	2025/07/29		99	%	75 - 125
9978861	SRT	RPD [ATGQ66-01]	Hot Water Ext. Boron (B)	2025/07/29	<0.050		ug/g	
9978982	SUK	Matrix Spike	Hot Water Ext. Boron (B)	2025/07/29	6.7		%	40
9978982	SUK	Spiked Blank	Acid Extractable Antimony (Sb)	2025/07/29		83	%	75 - 125
9978982	SUK	Method Blank	Acid Extractable Arsenic (As)	2025/07/29		86	%	75 - 125
9978982	SUK	RPD	Acid Extractable Barium (Ba)	2025/07/29		NC	%	75 - 125
9979034	DT1	Matrix Spike	Acid Extractable Beryllium (Be)	2025/07/29		86	%	75 - 125
9979034	DT1	Spiked Blank	Acid Extractable Boron (B)	2025/07/29		80	%	75 - 125
			Acid Extractable Cadmium (Cd)	2025/07/29		90	%	75 - 125
			Acid Extractable Chromium (Cr)	2025/07/29		85	%	75 - 125
			Acid Extractable Cobalt (Co)	2025/07/29		86	%	75 - 125
			Acid Extractable Copper (Cu)	2025/07/29		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2025/07/29		89	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2025/07/29		84	%	75 - 125
			Acid Extractable Nickel (Ni)	2025/07/29		89	%	75 - 125
			Acid Extractable Selenium (Se)	2025/07/29		90	%	75 - 125
			Acid Extractable Silver (Ag)	2025/07/29		88	%	75 - 125
			Acid Extractable Thallium (Tl)	2025/07/29		86	%	75 - 125
			Acid Extractable Uranium (U)	2025/07/29		89	%	75 - 125
			Acid Extractable Vanadium (V)	2025/07/29		86	%	75 - 125
			Acid Extractable Zinc (Zn)	2025/07/29		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2025/07/29		86	%	75 - 125
			Acid Extractable Antimony (Sb)	2025/07/29		99	%	80 - 120
			Acid Extractable Arsenic (As)	2025/07/29		98	%	80 - 120
			Acid Extractable Barium (Ba)	2025/07/29		100	%	80 - 120
			Acid Extractable Beryllium (Be)	2025/07/29		101	%	80 - 120



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ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Acid Extractable Boron (B)	2025/07/29		100	%	80 - 120
				Acid Extractable Cadmium (Cd)	2025/07/29		99	%	80 - 120
				Acid Extractable Chromium (Cr)	2025/07/29		98	%	80 - 120
				Acid Extractable Cobalt (Co)	2025/07/29		97	%	80 - 120
				Acid Extractable Copper (Cu)	2025/07/29		98	%	80 - 120
				Acid Extractable Lead (Pb)	2025/07/29		97	%	80 - 120
				Acid Extractable Molybdenum (Mo)	2025/07/29		94	%	80 - 120
				Acid Extractable Nickel (Ni)	2025/07/29		98	%	80 - 120
				Acid Extractable Selenium (Se)	2025/07/29		102	%	80 - 120
				Acid Extractable Silver (Ag)	2025/07/29		97	%	80 - 120
				Acid Extractable Thallium (Tl)	2025/07/29		96	%	80 - 120
				Acid Extractable Uranium (U)	2025/07/29		95	%	80 - 120
				Acid Extractable Vanadium (V)	2025/07/29		100	%	80 - 120
				Acid Extractable Zinc (Zn)	2025/07/29		100	%	80 - 120
				Acid Extractable Mercury (Hg)	2025/07/29		94	%	80 - 120
				Acid Extractable Antimony (Sb)	2025/07/29	<0.20		ug/g	
				Acid Extractable Arsenic (As)	2025/07/29	<1.0		ug/g	
				Acid Extractable Barium (Ba)	2025/07/29	<0.50		ug/g	
				Acid Extractable Beryllium (Be)	2025/07/29	<0.20		ug/g	
				Acid Extractable Boron (B)	2025/07/29	<5.0		ug/g	
9979034	DT1	Method Blank		Acid Extractable Cadmium (Cd)	2025/07/29	<0.10		ug/g	
				Acid Extractable Chromium (Cr)	2025/07/29	<1.0		ug/g	
				Acid Extractable Cobalt (Co)	2025/07/29	<0.10		ug/g	
				Acid Extractable Copper (Cu)	2025/07/29	<0.50		ug/g	
				Acid Extractable Lead (Pb)	2025/07/29	<1.0		ug/g	
				Acid Extractable Molybdenum (Mo)	2025/07/29	<0.50		ug/g	
				Acid Extractable Nickel (Ni)	2025/07/29	<0.50		ug/g	
				Acid Extractable Selenium (Se)	2025/07/29	<0.50		ug/g	
				Acid Extractable Silver (Ag)	2025/07/29	<0.20		ug/g	
				Acid Extractable Thallium (Tl)	2025/07/29	<0.050		ug/g	
				Acid Extractable Uranium (U)	2025/07/29	<0.050		ug/g	
				Acid Extractable Vanadium (V)	2025/07/29	<5.0		ug/g	
				Acid Extractable Zinc (Zn)	2025/07/29	<5.0		ug/g	
				Acid Extractable Mercury (Hg)	2025/07/29	<0.050		ug/g	
				Acid Extractable Antimony (Sb)	2025/07/29	NC		%	30
				Acid Extractable Arsenic (As)	2025/07/29	8.4		%	30
				Acid Extractable Barium (Ba)	2025/07/29	7.5		%	30
				Acid Extractable Beryllium (Be)	2025/07/29	6.8		%	30
				Acid Extractable Boron (B)	2025/07/29	3.4		%	30
				Acid Extractable Cadmium (Cd)	2025/07/29	NC		%	30
9979034	DT1	RPD		Acid Extractable Chromium (Cr)	2025/07/29	5.7		%	30
				Acid Extractable Cobalt (Co)	2025/07/29	2.0		%	30
				Acid Extractable Copper (Cu)	2025/07/29	1.2		%	30
				Acid Extractable Lead (Pb)	2025/07/29	0.47		%	30
				Acid Extractable Molybdenum (Mo)	2025/07/29	NC		%	30
				Acid Extractable Nickel (Ni)	2025/07/29	0.55		%	30
				Acid Extractable Selenium (Se)	2025/07/29	NC		%	30
				Acid Extractable Silver (Ag)	2025/07/29	NC		%	30
				Acid Extractable Thallium (Tl)	2025/07/29	2.3		%	30
				Acid Extractable Uranium (U)	2025/07/29	3.2		%	30
				Acid Extractable Vanadium (V)	2025/07/29	2.7		%	30
				Acid Extractable Zinc (Zn)	2025/07/29	9.2		%	30
				Acid Extractable Mercury (Hg)	2025/07/29	NC		%	30



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9979079	GTK		Spiked Blank	Conductivity	2025/07/29		103	%	90 - 110
9979079	GTK		Method Blank	Conductivity	2025/07/29	<0.002		mS/cm	
9979079	GTK		RPD	Conductivity	2025/07/29	1.5		%	10
9979084	GTK		Spiked Blank	Conductivity	2025/07/29		103	%	90 - 110
9979084	GTK		Method Blank	Conductivity	2025/07/29	<0.002		mS/cm	
9979084	GTK		RPD	Conductivity	2025/07/29	0.98		%	10
9979090	GR1		Matrix Spike	Acid Extractable Antimony (Sb)	2025/07/29		90	%	75 - 125
				Acid Extractable Arsenic (As)	2025/07/29		93	%	75 - 125
				Acid Extractable Barium (Ba)	2025/07/29		90	%	75 - 125
				Acid Extractable Beryllium (Be)	2025/07/29		89	%	75 - 125
				Acid Extractable Boron (B)	2025/07/29		86	%	75 - 125
				Acid Extractable Cadmium (Cd)	2025/07/29		89	%	75 - 125
				Acid Extractable Chromium (Cr)	2025/07/29		92	%	75 - 125
				Acid Extractable Cobalt (Co)	2025/07/29		88	%	75 - 125
				Acid Extractable Copper (Cu)	2025/07/29		89	%	75 - 125
				Acid Extractable Lead (Pb)	2025/07/29		85	%	75 - 125
				Acid Extractable Molybdenum (Mo)	2025/07/29		88	%	75 - 125
				Acid Extractable Nickel (Ni)	2025/07/29		87	%	75 - 125
				Acid Extractable Selenium (Se)	2025/07/29		93	%	75 - 125
				Acid Extractable Silver (Ag)	2025/07/29		91	%	75 - 125
				Acid Extractable Thallium (Tl)	2025/07/29		87	%	75 - 125
				Acid Extractable Uranium (U)	2025/07/29		88	%	75 - 125
				Acid Extractable Vanadium (V)	2025/07/29		96	%	75 - 125
				Acid Extractable Zinc (Zn)	2025/07/29		85	%	75 - 125
				Acid Extractable Mercury (Hg)	2025/07/29		83	%	75 - 125
9979090	GR1		Spiked Blank	Acid Extractable Antimony (Sb)	2025/07/29		99	%	80 - 120
				Acid Extractable Arsenic (As)	2025/07/29		102	%	80 - 120
				Acid Extractable Barium (Ba)	2025/07/29		102	%	80 - 120
				Acid Extractable Beryllium (Be)	2025/07/29		98	%	80 - 120
				Acid Extractable Boron (B)	2025/07/29		95	%	80 - 120
				Acid Extractable Cadmium (Cd)	2025/07/29		97	%	80 - 120
				Acid Extractable Chromium (Cr)	2025/07/29		99	%	80 - 120
				Acid Extractable Cobalt (Co)	2025/07/29		99	%	80 - 120
				Acid Extractable Copper (Cu)	2025/07/29		98	%	80 - 120
				Acid Extractable Lead (Pb)	2025/07/29		100	%	80 - 120
				Acid Extractable Molybdenum (Mo)	2025/07/29		94	%	80 - 120
				Acid Extractable Nickel (Ni)	2025/07/29		99	%	80 - 120
				Acid Extractable Selenium (Se)	2025/07/29		104	%	80 - 120
				Acid Extractable Silver (Ag)	2025/07/29		99	%	80 - 120
				Acid Extractable Thallium (Tl)	2025/07/29		102	%	80 - 120
				Acid Extractable Uranium (U)	2025/07/29		100	%	80 - 120
				Acid Extractable Vanadium (V)	2025/07/29		96	%	80 - 120
				Acid Extractable Zinc (Zn)	2025/07/29		100	%	80 - 120
				Acid Extractable Mercury (Hg)	2025/07/29		98	%	80 - 120
9979090	GR1		Method Blank	Acid Extractable Antimony (Sb)	2025/07/29	<0.20		ug/g	
				Acid Extractable Arsenic (As)	2025/07/29	<1.0		ug/g	
				Acid Extractable Barium (Ba)	2025/07/29	<0.50		ug/g	
				Acid Extractable Beryllium (Be)	2025/07/29	<0.20		ug/g	
				Acid Extractable Boron (B)	2025/07/29	<5.0		ug/g	
				Acid Extractable Cadmium (Cd)	2025/07/29	<0.10		ug/g	
				Acid Extractable Chromium (Cr)	2025/07/29	<1.0		ug/g	
				Acid Extractable Cobalt (Co)	2025/07/29	<0.10		ug/g	
				Acid Extractable Copper (Cu)	2025/07/29	<0.50		ug/g	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9979090	GR1	RPD		Acid Extractable Lead (Pb)	2025/07/29	<1.0		ug/g	
				Acid Extractable Molybdenum (Mo)	2025/07/29	<0.50		ug/g	
				Acid Extractable Nickel (Ni)	2025/07/29	<0.50		ug/g	
				Acid Extractable Selenium (Se)	2025/07/29	<0.50		ug/g	
				Acid Extractable Silver (Ag)	2025/07/29	<0.20		ug/g	
				Acid Extractable Thallium (Tl)	2025/07/29	<0.050		ug/g	
				Acid Extractable Uranium (U)	2025/07/29	<0.050		ug/g	
				Acid Extractable Vanadium (V)	2025/07/29	<5.0		ug/g	
				Acid Extractable Zinc (Zn)	2025/07/29	<5.0		ug/g	
				Acid Extractable Mercury (Hg)	2025/07/29	<0.050		ug/g	
				Acid Extractable Antimony (Sb)	2025/07/29	NC		%	30
				Acid Extractable Arsenic (As)	2025/07/29	NC		%	30
				Acid Extractable Barium (Ba)	2025/07/29	2.0		%	30
				Acid Extractable Beryllium (Be)	2025/07/29	NC		%	30
				Acid Extractable Boron (B)	2025/07/29	NC		%	30
				Acid Extractable Cadmium (Cd)	2025/07/29	NC		%	30
				Acid Extractable Chromium (Cr)	2025/07/29	4.1		%	30
				Acid Extractable Cobalt (Co)	2025/07/29	1.7		%	30
				Acid Extractable Copper (Cu)	2025/07/29	8.4		%	30
				Acid Extractable Lead (Pb)	2025/07/29	6.7		%	30
				Acid Extractable Molybdenum (Mo)	2025/07/29	NC		%	30
				Acid Extractable Nickel (Ni)	2025/07/29	0.20		%	30
				Acid Extractable Selenium (Se)	2025/07/29	NC		%	30
				Acid Extractable Silver (Ag)	2025/07/29	NC		%	30
				Acid Extractable Thallium (Tl)	2025/07/29	NC		%	30
				Acid Extractable Uranium (U)	2025/07/29	8.2		%	30
				Acid Extractable Vanadium (V)	2025/07/29	14		%	30
				Acid Extractable Zinc (Zn)	2025/07/29	4.1		%	30
				Acid Extractable Mercury (Hg)	2025/07/29	NC		%	30
9979102	MEN	Matrix Spike		Hot Water Ext. Boron (B)	2025/07/30		122	%	75 - 125
9979102	MEN	Spiked Blank		Hot Water Ext. Boron (B)	2025/07/30		100	%	75 - 125
9979102	MEN	Method Blank		Hot Water Ext. Boron (B)	2025/07/30	<0.050		ug/g	
9979102	MEN	RPD		Hot Water Ext. Boron (B)	2025/07/30	3.7		%	40
9979129	DT1	Matrix Spike		Acid Extractable Antimony (Sb)	2025/07/29		97	%	75 - 125
				Acid Extractable Arsenic (As)	2025/07/29		100	%	75 - 125
				Acid Extractable Barium (Ba)	2025/07/29		99	%	75 - 125
				Acid Extractable Beryllium (Be)	2025/07/29		99	%	75 - 125
				Acid Extractable Boron (B)	2025/07/29		113	%	75 - 125
				Acid Extractable Cadmium (Cd)	2025/07/29		99	%	75 - 125
				Acid Extractable Chromium (Cr)	2025/07/29		102	%	75 - 125
				Acid Extractable Cobalt (Co)	2025/07/29		100	%	75 - 125
				Acid Extractable Copper (Cu)	2025/07/29		97	%	75 - 125
				Acid Extractable Lead (Pb)	2025/07/29		100	%	75 - 125
				Acid Extractable Molybdenum (Mo)	2025/07/29		95	%	75 - 125
				Acid Extractable Nickel (Ni)	2025/07/29		103	%	75 - 125
				Acid Extractable Selenium (Se)	2025/07/29		103	%	75 - 125
				Acid Extractable Silver (Ag)	2025/07/29		99	%	75 - 125
				Acid Extractable Thallium (Tl)	2025/07/29		100	%	75 - 125
				Acid Extractable Uranium (U)	2025/07/29		101	%	75 - 125
				Acid Extractable Vanadium (V)	2025/07/29		102	%	75 - 125
				Acid Extractable Zinc (Zn)	2025/07/29		103	%	75 - 125
				Acid Extractable Mercury (Hg)	2025/07/29		100	%	75 - 125
				Acid Extractable Antimony (Sb)	2025/07/29		97	%	80 - 120
9979129	DT1	Spiked Blank		Acid Extractable Antimony (Sb)	2025/07/29		97	%	80 - 120



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Acid Extractable Arsenic (As)	2025/07/29		96	%	80 - 120
				Acid Extractable Barium (Ba)	2025/07/29		96	%	80 - 120
				Acid Extractable Beryllium (Be)	2025/07/29		96	%	80 - 120
				Acid Extractable Boron (B)	2025/07/29		96	%	80 - 120
				Acid Extractable Cadmium (Cd)	2025/07/29		97	%	80 - 120
				Acid Extractable Chromium (Cr)	2025/07/29		98	%	80 - 120
				Acid Extractable Cobalt (Co)	2025/07/29		97	%	80 - 120
				Acid Extractable Copper (Cu)	2025/07/29		97	%	80 - 120
				Acid Extractable Lead (Pb)	2025/07/29		96	%	80 - 120
				Acid Extractable Molybdenum (Mo)	2025/07/29		93	%	80 - 120
				Acid Extractable Nickel (Ni)	2025/07/29		100	%	80 - 120
				Acid Extractable Selenium (Se)	2025/07/29		99	%	80 - 120
				Acid Extractable Silver (Ag)	2025/07/29		97	%	80 - 120
				Acid Extractable Thallium (Tl)	2025/07/29		98	%	80 - 120
				Acid Extractable Uranium (U)	2025/07/29		98	%	80 - 120
				Acid Extractable Vanadium (V)	2025/07/29		99	%	80 - 120
				Acid Extractable Zinc (Zn)	2025/07/29		99	%	80 - 120
				Acid Extractable Mercury (Hg)	2025/07/29		95	%	80 - 120
9979129		DT1	Method Blank	Acid Extractable Antimony (Sb)	2025/07/29	<0.20		ug/g	
				Acid Extractable Arsenic (As)	2025/07/29	<1.0		ug/g	
				Acid Extractable Barium (Ba)	2025/07/29	<0.50		ug/g	
				Acid Extractable Beryllium (Be)	2025/07/29	<0.20		ug/g	
				Acid Extractable Boron (B)	2025/07/29	<5.0		ug/g	
				Acid Extractable Cadmium (Cd)	2025/07/29	<0.10		ug/g	
				Acid Extractable Chromium (Cr)	2025/07/29	<1.0		ug/g	
				Acid Extractable Cobalt (Co)	2025/07/29	<0.10		ug/g	
				Acid Extractable Copper (Cu)	2025/07/29	<0.50		ug/g	
				Acid Extractable Lead (Pb)	2025/07/29	<1.0		ug/g	
				Acid Extractable Molybdenum (Mo)	2025/07/29	<0.50		ug/g	
				Acid Extractable Nickel (Ni)	2025/07/29	<0.50		ug/g	
				Acid Extractable Selenium (Se)	2025/07/29	<0.50		ug/g	
				Acid Extractable Silver (Ag)	2025/07/29	<0.20		ug/g	
				Acid Extractable Thallium (Tl)	2025/07/29	<0.050		ug/g	
				Acid Extractable Uranium (U)	2025/07/29	<0.050		ug/g	
				Acid Extractable Vanadium (V)	2025/07/29	<5.0		ug/g	
				Acid Extractable Zinc (Zn)	2025/07/29	<5.0		ug/g	
				Acid Extractable Mercury (Hg)	2025/07/29	<0.050		ug/g	
9979129		DT1	RPD	Acid Extractable Antimony (Sb)	2025/07/29	NC		%	30
				Acid Extractable Arsenic (As)	2025/07/29	NC		%	30
				Acid Extractable Barium (Ba)	2025/07/29	4.0		%	30
				Acid Extractable Beryllium (Be)	2025/07/29	NC		%	30
				Acid Extractable Boron (B)	2025/07/29	21		%	30
				Acid Extractable Cadmium (Cd)	2025/07/29	NC		%	30
				Acid Extractable Chromium (Cr)	2025/07/29	13		%	30
				Acid Extractable Cobalt (Co)	2025/07/29	7.8		%	30
				Acid Extractable Copper (Cu)	2025/07/29	5.5		%	30
				Acid Extractable Lead (Pb)	2025/07/29	5.2		%	30
				Acid Extractable Molybdenum (Mo)	2025/07/29	NC		%	30
				Acid Extractable Nickel (Ni)	2025/07/29	7.4		%	30
				Acid Extractable Selenium (Se)	2025/07/29	NC		%	30
				Acid Extractable Silver (Ag)	2025/07/29	NC		%	30
				Acid Extractable Thallium (Tl)	2025/07/29	NC		%	30
				Acid Extractable Uranium (U)	2025/07/29	16		%	30



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Vanadium (V)	2025/07/29	NC		%	30
			Acid Extractable Zinc (Zn)	2025/07/29	1.3		%	30
			Acid Extractable Mercury (Hg)	2025/07/29	NC		%	30
9979377	SB5	Matrix Spike	Chromium (VI)	2025/07/29		73	%	70 - 130
9979377	SB5	Spiked Blank	Chromium (VI)	2025/07/29		93	%	80 - 120
9979377	SB5	Method Blank	Chromium (VI)	2025/07/29	<0.18		ug/g	
9979377	SB5	RPD	Chromium (VI)	2025/07/29	NC		%	35
9980006	JWK	Matrix Spike	Hot Water Ext. Boron (B)	2025/07/30		103	%	75 - 125
9980006	JWK	Spiked Blank	Hot Water Ext. Boron (B)	2025/07/30		100	%	75 - 125
9980006	JWK	Method Blank	Hot Water Ext. Boron (B)	2025/07/30	<0.050		ug/g	
9980006	JWK	RPD	Hot Water Ext. Boron (B)	2025/07/30	11		%	40

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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 $\leq 2 \times \text{RDL}$).



Bureau Veritas Job #: C588689
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

C588689

2025/07/22 16:20

Bureau Veritas
36 Antares Dr Unit 100, Nepean, Ontario Canada K2E 7W5 Tel: (613) 274-0573 Toll-free: 800-563-6266 Fax: (613) 274-0574 www.bvna.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#21644 ATKINSREALIS CANADA INC.	Company Name:	#19080 AtkinsRealis	Quotation #:	C31302	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Sean Gariano	P.O. #:	49644		
Address:	455 René-Lévesque Blvd. West	Address:	1145 Hunt Club Road Suite 120	Project:	705228		
	Montreal QC H2Z 1Z3		Nepean ON K1V 0Y3	Project Name:	C10231	COC #:	Project Manager:
Tel:	(613) 226-2456	Tel:	(613) 226-2456	Site #:			Babandeep Kaur
Email:	payables@atkinsrealis.com	Email:	sean.gariano@atkinsrealis.com; ON_LabData@snclava	Sampled By:			
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required:	
Regulation 153 (2011) Table 1: ☐ Res/Park ☒ Medium/Fine Table 2: ☒ Ind/Comm ☐ Coarse Table 3: ☐ Agri/Other ☐ For RSC Table 4: ☒ 9		Other Regulations ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA ☐ Municipality ☐ PWGO ☐ Reg 406 Table ☐ Other		Special Instructions		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 #)	
Include Criteria on Certificate of Analysis (Y/N)?				Field Filtered (please circle): Metals / Hg / Cr / VI 0 Reg 153 VOCs by HS & F1-F4 0 Reg 153 PAHs 0 Reg 153 Metals & Inorganics Pig Grav 152 (15)		# of Bottles Comments	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix			
1	BH25-01-01	Jul 22/25	9:55	Soil	X	X	X
2	BH25-01-02		10:05		X	X	X
3	BH25-01-03		10:15		X	X	X
4	BH25-03-01		13:40		X	X	X
5	BH25-03-02		13:50		X	X	X
6	BH25-04-02		10:50		X	X	X
7	BH25-05-03		13:10		X	X	X
8	BH25-06-02		12:25		X	X	X
9	BH25-02-02		15:15		X	X	X
10	BH25-02-022		15:15		X	X	X
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time
Sean Gariano		25/07/22	15:45	Babandeep Kaur		2025/07/22	16:20
# jars used and not submitted		Laboratory Use Only		Time Sensitive		Temperature (°C) on Receipt	Custody Seal
						18.20, 19.10	Present
							Intact
							Yes
							No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S 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.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-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.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.				SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS		White: Bureau Veritas Yellow: Client	

Bureau Veritas Canada (2019) Inc.



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053870-02-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/07/31
Report #: R8586550
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C589953

Received: 2025/07/24, 09:50

Sample Matrix: Soil
Samples Received: 2

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum (1)	2	N/A	2025/07/30	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron (1)	2	2025/07/30	2025/07/30	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	2	N/A	2025/07/30		EPA 8260C m
Free (WAD) Cyanide (1)	2	2025/07/30	2025/07/30	CAM SOP-00457	OMOE E3015 m
Conductivity (1)	2	2025/07/30	2025/07/30	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1, 2)	2	2025/07/30	2025/07/30	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	2	2025/07/29	2025/07/29	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS (1)	1	2025/07/29	2025/07/29	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS (1)	1	2025/07/30	2025/07/30	CAM SOP-00447	EPA 6020B m
Moisture (1)	2	N/A	2025/07/28	CAM SOP-00445	Carter 2nd ed 70.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	2	2025/07/29	2025/07/29	CAM SOP-00318	EPA 8270E
pH CaCl ₂ EXTRACT (1)	2	2025/07/30	2025/07/30	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR) (1)	2	N/A	2025/07/31	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs (1)	2	N/A	2025/07/29	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, EPA, APHA or the Quebec Ministry of Environment.

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.



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053870-02-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/07/31
Report #: R8586550
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C589953

Received: 2025/07/24, 09:50

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, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) Soils are reported on a dry weight basis unless otherwise specified.

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas 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:

Babandeep Kaur, Project Manager 2

Email: Babandeep.kaur@bureauveritas.com

Phone# (613) 274-0573

=====

This report has been generated and distributed using a secure automated process.

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ATJF97	ATJF98		
Sampling Date		2025/07/23 12:45	2025/07/23 14:55		
COC Number		C#1053870-02-01	C#1053870-02-01		
	UNITS	BH25-05-04	BH25-06-04	RDL	QC Batch
Calculated Parameters					
Sodium Adsorption Ratio	N/A	1.1	1.7		9976824
Inorganics					
Conductivity	mS/cm	0.87	0.86	0.002	9979785
Moisture	%	18	22	1.0	9977958
Available (CaCl2) pH	pH	7.77	7.46		9979879
WAD Cyanide (Free)	ug/g	<0.01	<0.01	0.01	9979509
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ATJF97		ATJF98		
Sampling Date		2025/07/23 12:45		2025/07/23 14:55		
COC Number		C#1053870-02-01		C#1053870-02-01		
	UNITS	BH25-05-04	QC Batch	BH25-06-04	RDL	QC Batch
Inorganics						
Chromium (VI)	ug/g	<0.18	9979522	<0.18	0.18	9979522
Metals						
Hot Water Ext. Boron (B)	ug/g	0.12	9979696	0.26	0.050	9979696
Acid Extractable Antimony (Sb)	ug/g	<0.20	9979261	<0.20	0.20	9979958
Acid Extractable Arsenic (As)	ug/g	1.9	9979261	<1.0	1.0	9979958
Acid Extractable Barium (Ba)	ug/g	120	9979261	190	0.50	9979958
Acid Extractable Beryllium (Be)	ug/g	0.40	9979261	0.57	0.20	9979958
Acid Extractable Boron (B)	ug/g	<5.0	9979261	<5.0	5.0	9979958
Acid Extractable Cadmium (Cd)	ug/g	<0.10	9979261	<0.10	0.10	9979958
Acid Extractable Chromium (Cr)	ug/g	27	9979261	41	1.0	9979958
Acid Extractable Cobalt (Co)	ug/g	7.0	9979261	11	0.10	9979958
Acid Extractable Copper (Cu)	ug/g	16	9979261	23	0.50	9979958
Acid Extractable Lead (Pb)	ug/g	4.3	9979261	5.3	1.0	9979958
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	9979261	0.56	0.50	9979958
Acid Extractable Nickel (Ni)	ug/g	15	9979261	23	0.50	9979958
Acid Extractable Selenium (Se)	ug/g	<0.50	9979261	<0.50	0.50	9979958
Acid Extractable Silver (Ag)	ug/g	<0.20	9979261	<0.20	0.20	9979958
Acid Extractable Thallium (Tl)	ug/g	0.15	9979261	0.21	0.050	9979958
Acid Extractable Uranium (U)	ug/g	0.54	9979261	0.79	0.050	9979958
Acid Extractable Vanadium (V)	ug/g	35	9979261	55	5.0	9979958
Acid Extractable Zinc (Zn)	ug/g	36	9979261	64	5.0	9979958
Acid Extractable Mercury (Hg)	ug/g	<0.050	9979261	<0.050	0.050	9979958
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		ATJF97	ATJF98		
Sampling Date		2025/07/23 12:45	2025/07/23 14:55		
COC Number		C#1053870-02-01	C#1053870-02-01		
	UNITS	BH25-05-04	BH25-06-04	RDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	0.0071	9976668
Polyaromatic Hydrocarbons					
Acenaphthene	ug/g	<0.0050	<0.0050	0.0050	9978750
Acenaphthylene	ug/g	<0.0050	<0.0050	0.0050	9978750
Anthracene	ug/g	<0.0050	<0.0050	0.0050	9978750
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	0.0050	9978750
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	0.0050	9978750
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	9978750
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	0.0050	9978750
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	9978750
Chrysene	ug/g	<0.0050	<0.0050	0.0050	9978750
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	0.0050	9978750
Fluoranthene	ug/g	<0.0050	<0.0050	0.0050	9978750
Fluorene	ug/g	<0.0050	<0.0050	0.0050	9978750
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	0.0050	9978750
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	9978750
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	9978750
Naphthalene	ug/g	<0.0050	<0.0050	0.0050	9978750
Phenanthrene	ug/g	<0.0050	<0.0050	0.0050	9978750
Pyrene	ug/g	<0.0050	<0.0050	0.0050	9978750
Surrogate Recovery (%)					
D10-Anthracene	%	112	104		9978750
D14-Terphenyl (FS)	%	113	102		9978750
D8-Acenaphthylene	%	81	76		9978750
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATJF97	ATJF98		
Sampling Date		2025/07/23 12:45	2025/07/23 14:55		
COC Number		C#1053870-02-01	C#1053870-02-01		
	UNITS	BH25-05-04	BH25-06-04	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	9976799
Volatile Organics					
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	9978492
Benzene	ug/g	<0.0060	<0.0060	0.0060	9978492
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	9978492
Bromoform	ug/g	<0.040	<0.040	0.040	9978492
Bromomethane	ug/g	<0.040	<0.040	0.040	9978492
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	9978492
Chlorobenzene	ug/g	<0.040	<0.040	0.040	9978492
Chloroform	ug/g	<0.040	<0.040	0.040	9978492
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	9978492
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	9978492
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	9978492
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	9978492
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	9978492
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	9978492
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	9978492
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	9978492
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	9978492
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	9978492
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	9978492
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	9978492
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	9978492
Ethylbenzene	ug/g	<0.010	<0.010	0.010	9978492
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	9978492
Hexane	ug/g	<0.040	<0.040	0.040	9978492
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	9978492
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	9978492
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	9978492
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	9978492
Styrene	ug/g	<0.040	<0.040	0.040	9978492
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	9978492
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	9978492
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	9978492
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATJF97	ATJF98		
Sampling Date		2025/07/23 12:45	2025/07/23 14:55		
COC Number		C#1053870-02-01	C#1053870-02-01		
	UNITS	BH25-05-04	BH25-06-04	RDL	QC Batch
Toluene	ug/g	<0.020	<0.020	0.020	9978492
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	9978492
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	9978492
Trichloroethylene	ug/g	<0.010	<0.010	0.010	9978492
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	9978492
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	9978492
p+m-Xylene	ug/g	<0.020	<0.020	0.020	9978492
o-Xylene	ug/g	<0.020	<0.020	0.020	9978492
Total Xylenes	ug/g	<0.020	<0.020	0.020	9978492
F1 (C6-C10)	ug/g	<10	<10	10	9978492
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	9978492
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	103	102		9978492
D10-o-Xylene	%	95	95		9978492
D4-1,2-Dichloroethane	%	99	101		9978492
D8-Toluene	%	95	95		9978492
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ATJF97	ATJF98		
Sampling Date		2025/07/23 12:45	2025/07/23 14:55		
COC Number		C#1053870-02-01	C#1053870-02-01		
	UNITS	BH25-05-04	BH25-06-04	RDL	QC Batch
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<7.0	<7.0	7.0	9978589
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	9978589
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	9978589
Reached Baseline at C50	ug/g	Yes	Yes		9978589
Surrogate Recovery (%)					
o-Terphenyl	%	102	101		9978589
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATJF97
Sample ID: BH25-05-04
Matrix: Soil

Collected: 2025/07/23
Shipped:
Received: 2025/07/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9976668	N/A	2025/07/30	Automated Statchk
Hot Water Extractable Boron	ICP	9979696	2025/07/30	2025/07/30	Jaswinder Kaur
1,3-Dichloropropene Sum	CALC	9976799	N/A	2025/07/30	Automated Statchk
Free (WAD) Cyanide	TECH	9979509	2025/07/30	2025/07/30	Prgya Panchal
Conductivity	AT	9979785	2025/07/30	2025/07/30	Gurpartee K AUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979522	2025/07/30	2025/07/30	Harpuneet Kaur
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978589	2025/07/29	2025/07/29	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	9979261	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977958	N/A	2025/07/28	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9978750	2025/07/29	2025/07/29	Lingyun Feng
pH CaCl2 EXTRACT	AT	9979879	2025/07/30	2025/07/30	Gurpartee K AUR
Sodium Adsorption Ratio (SAR)	CALC/MET	9976824	N/A	2025/07/31	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9978492	N/A	2025/07/29	Denis Reid

Bureau Veritas ID: ATJF98
Sample ID: BH25-06-04
Matrix: Soil

Collected: 2025/07/23
Shipped:
Received: 2025/07/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9976668	N/A	2025/07/30	Automated Statchk
Hot Water Extractable Boron	ICP	9979696	2025/07/30	2025/07/30	Jaswinder Kaur
1,3-Dichloropropene Sum	CALC	9976799	N/A	2025/07/30	Automated Statchk
Free (WAD) Cyanide	TECH	9979509	2025/07/30	2025/07/30	Prgya Panchal
Conductivity	AT	9979785	2025/07/30	2025/07/30	Gurpartee K AUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979522	2025/07/30	2025/07/30	Harpuneet Kaur
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978589	2025/07/29	2025/07/29	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	9979958	2025/07/30	2025/07/30	Daniel Teclu
Moisture	BAL	9977958	N/A	2025/07/28	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9978750	2025/07/29	2025/07/29	Lingyun Feng
pH CaCl2 EXTRACT	AT	9979879	2025/07/30	2025/07/30	Gurpartee K AUR
Sodium Adsorption Ratio (SAR)	CALC/MET	9976824	N/A	2025/07/31	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9978492	N/A	2025/07/29	Denis Reid



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ATKINSRÉALIS CANADA INC.
Client Project #: 705228
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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.7°C
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Results relate only to the items tested.



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	9977958	NTP	RPD	Moisture	2025/07/28	17		%	20
	9978492	DR1	Matrix Spike	4-Bromofluorobenzene	2025/07/29		104	%	60 - 140
				D10-o-Xylene	2025/07/29		97	%	60 - 130
				D4-1,2-Dichloroethane	2025/07/29		100	%	60 - 140
				D8-Toluene	2025/07/29		97	%	60 - 140
				Acetone (2-Propanone)	2025/07/29		86	%	60 - 140
				Benzene	2025/07/29		96	%	60 - 140
				Bromodichloromethane	2025/07/29		92	%	60 - 140
				Bromoform	2025/07/29		92	%	60 - 140
				Bromomethane	2025/07/29		103	%	60 - 140
				Carbon Tetrachloride	2025/07/29		102	%	60 - 140
				Chlorobenzene	2025/07/29		88	%	60 - 140
				Chloroform	2025/07/29		96	%	60 - 140
				Dibromochloromethane	2025/07/29		118	%	60 - 140
				1,2-Dichlorobenzene	2025/07/29		94	%	60 - 140
				1,3-Dichlorobenzene	2025/07/29		95	%	60 - 140
				1,4-Dichlorobenzene	2025/07/29		94	%	60 - 140
				Dichlorodifluoromethane (FREON 12)	2025/07/29		116	%	60 - 140
				1,1-Dichloroethane	2025/07/29		90	%	60 - 140
				1,2-Dichloroethane	2025/07/29		99	%	60 - 140
				1,1-Dichloroethylene	2025/07/29		92	%	60 - 140
				cis-1,2-Dichloroethylene	2025/07/29		102	%	60 - 140
				trans-1,2-Dichloroethylene	2025/07/29		96	%	60 - 140
				1,2-Dichloropropane	2025/07/29		94	%	60 - 140
				cis-1,3-Dichloropropene	2025/07/29		94	%	60 - 140
				trans-1,3-Dichloropropene	2025/07/29		98	%	60 - 140
				Ethylbenzene	2025/07/29		89	%	60 - 140
				Ethylene Dibromide	2025/07/29		93	%	60 - 140
				Hexane	2025/07/29		99	%	60 - 140
				Methylene Chloride(Dichloromethane)	2025/07/29		103	%	60 - 140
				Methyl Ethyl Ketone (2-Butanone)	2025/07/29		87	%	60 - 140
				Methyl Isobutyl Ketone	2025/07/29		88	%	60 - 140
				Methyl t-butyl ether (MTBE)	2025/07/29		93	%	60 - 140
				Styrene	2025/07/29		83	%	60 - 140
				1,1,1,2-Tetrachloroethane	2025/07/29		100	%	60 - 140
				1,1,2,2-Tetrachloroethane	2025/07/29		85	%	60 - 140
				Tetrachloroethylene	2025/07/29		100	%	60 - 140
				Toluene	2025/07/29		90	%	60 - 140
				1,1,1-Trichloroethane	2025/07/29		93	%	60 - 140
				1,1,2-Trichloroethane	2025/07/29		91	%	60 - 140
				Trichloroethylene	2025/07/29		104	%	60 - 140
				Trichlorofluoromethane (FREON 11)	2025/07/29		98	%	60 - 140
				Vinyl Chloride	2025/07/29		94	%	60 - 140
				p+m-Xylene	2025/07/29		86	%	60 - 140
				o-Xylene	2025/07/29		95	%	60 - 140
				F1 (C6-C10)	2025/07/29		88	%	60 - 140
	9978492	DR1	Spiked Blank	4-Bromofluorobenzene	2025/07/29		104	%	60 - 140
				D10-o-Xylene	2025/07/29		92	%	60 - 130
				D4-1,2-Dichloroethane	2025/07/29		99	%	60 - 140
				D8-Toluene	2025/07/29		97	%	60 - 140
				Acetone (2-Propanone)	2025/07/29		78	%	60 - 140
				Benzene	2025/07/29		94	%	60 - 130
				Bromodichloromethane	2025/07/29		89	%	60 - 130



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Bromoform	2025/07/29		93	%	60 - 130
				Bromomethane	2025/07/29		95	%	60 - 140
				Carbon Tetrachloride	2025/07/29		99	%	60 - 130
				Chlorobenzene	2025/07/29		86	%	60 - 130
				Chloroform	2025/07/29		92	%	60 - 130
				Dibromochloromethane	2025/07/29		117	%	60 - 130
				1,2-Dichlorobenzene	2025/07/29		92	%	60 - 130
				1,3-Dichlorobenzene	2025/07/29		92	%	60 - 130
				1,4-Dichlorobenzene	2025/07/29		92	%	60 - 130
				Dichlorodifluoromethane (FREON 12)	2025/07/29		114	%	60 - 140
				1,1-Dichloroethane	2025/07/29		87	%	60 - 130
				1,2-Dichloroethane	2025/07/29		96	%	60 - 130
				1,1-Dichloroethylene	2025/07/29		89	%	60 - 130
				cis-1,2-Dichloroethylene	2025/07/29		98	%	60 - 130
				trans-1,2-Dichloroethylene	2025/07/29		93	%	60 - 130
				1,2-Dichloropropane	2025/07/29		92	%	60 - 130
				cis-1,3-Dichloropropene	2025/07/29		84	%	60 - 130
				trans-1,3-Dichloropropene	2025/07/29		85	%	60 - 130
				Ethylbenzene	2025/07/29		86	%	60 - 130
				Ethylene Dibromide	2025/07/29		92	%	60 - 130
				Hexane	2025/07/29		95	%	60 - 130
				Methylene Chloride(Dichloromethane)	2025/07/29		100	%	60 - 130
				Methyl Ethyl Ketone (2-Butanone)	2025/07/29		84	%	60 - 140
				Methyl Isobutyl Ketone	2025/07/29		88	%	60 - 130
				Methyl t-butyl ether (MTBE)	2025/07/29		90	%	60 - 130
				Styrene	2025/07/29		82	%	60 - 130
				1,1,1,2-Tetrachloroethane	2025/07/29		98	%	60 - 130
				1,1,2,2-Tetrachloroethane	2025/07/29		86	%	60 - 130
				Tetrachloroethylene	2025/07/29		96	%	60 - 130
				Toluene	2025/07/29		88	%	60 - 130
				1,1,1-Trichloroethane	2025/07/29		90	%	60 - 130
				1,1,2-Trichloroethane	2025/07/29		89	%	60 - 130
				Trichloroethylene	2025/07/29		100	%	60 - 130
				Trichlorofluoromethane (FREON 11)	2025/07/29		96	%	60 - 130
				Vinyl Chloride	2025/07/29		92	%	60 - 130
				p+m-Xylene	2025/07/29		84	%	60 - 130
				o-Xylene	2025/07/29		93	%	60 - 130
				F1 (C6-C10)	2025/07/29		87	%	80 - 120
9978492	DR1	Method Blank		4-Bromofluorobenzene	2025/07/29		101	%	60 - 140
				D10-o-Xylene	2025/07/29		85	%	60 - 130
				D4-1,2-Dichloroethane	2025/07/29		94	%	60 - 140
				D8-Toluene	2025/07/29		97	%	60 - 140
				Acetone (2-Propanone)	2025/07/29	<0.49		ug/g	
				Benzene	2025/07/29	<0.0060		ug/g	
				Bromodichloromethane	2025/07/29	<0.040		ug/g	
				Bromoform	2025/07/29	<0.040		ug/g	
				Bromomethane	2025/07/29	<0.040		ug/g	
				Carbon Tetrachloride	2025/07/29	<0.040		ug/g	
				Chlorobenzene	2025/07/29	<0.040		ug/g	
				Chloroform	2025/07/29	<0.040		ug/g	
				Dibromochloromethane	2025/07/29	<0.040		ug/g	
				1,2-Dichlorobenzene	2025/07/29	<0.040		ug/g	
				1,3-Dichlorobenzene	2025/07/29	<0.040		ug/g	



Bureau Veritas Job #: C589953

Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.

Client Project #: 705228

Your P.O. #: 49644

Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				1,4-Dichlorobenzene	2025/07/29	<0.040		ug/g	
				Dichlorodifluoromethane (FREON 12)	2025/07/29	<0.040		ug/g	
				1,1-Dichloroethane	2025/07/29	<0.040		ug/g	
				1,2-Dichloroethane	2025/07/29	<0.049		ug/g	
				1,1-Dichloroethylene	2025/07/29	<0.040		ug/g	
				cis-1,2-Dichloroethylene	2025/07/29	<0.040		ug/g	
				trans-1,2-Dichloroethylene	2025/07/29	<0.040		ug/g	
				1,2-Dichloropropane	2025/07/29	<0.040		ug/g	
				cis-1,3-Dichloropropene	2025/07/29	<0.030		ug/g	
				trans-1,3-Dichloropropene	2025/07/29	<0.040		ug/g	
				Ethylbenzene	2025/07/29	<0.010		ug/g	
				Ethylene Dibromide	2025/07/29	<0.040		ug/g	
				Hexane	2025/07/29	<0.040		ug/g	
				Methylene Chloride(Dichloromethane)	2025/07/29	<0.049		ug/g	
				Methyl Ethyl Ketone (2-Butanone)	2025/07/29	<0.40		ug/g	
				Methyl Isobutyl Ketone	2025/07/29	<0.40		ug/g	
				Methyl t-butyl ether (MTBE)	2025/07/29	<0.040		ug/g	
				Styrene	2025/07/29	<0.040		ug/g	
				1,1,1,2-Tetrachloroethane	2025/07/29	<0.040		ug/g	
				1,1,2,2-Tetrachloroethane	2025/07/29	<0.040		ug/g	
				Tetrachloroethylene	2025/07/29	<0.040		ug/g	
				Toluene	2025/07/29	<0.020		ug/g	
				1,1,1-Trichloroethane	2025/07/29	<0.040		ug/g	
				1,1,2-Trichloroethane	2025/07/29	<0.040		ug/g	
				Trichloroethylene	2025/07/29	<0.010		ug/g	
				Trichlorofluoromethane (FREON 11)	2025/07/29	<0.040		ug/g	
				Vinyl Chloride	2025/07/29	<0.019		ug/g	
				p+m-Xylene	2025/07/29	<0.020		ug/g	
				o-Xylene	2025/07/29	<0.020		ug/g	
				Total Xylenes	2025/07/29	<0.020		ug/g	
				F1 (C6-C10)	2025/07/29	<10		ug/g	
				F1 (C6-C10) - BTEX	2025/07/29	<10		ug/g	
9978492		DR1	RPD	Acetone (2-Propanone)	2025/07/29	NC		%	50
				Benzene	2025/07/29	6.0		%	50
				Bromodichloromethane	2025/07/29	NC		%	50
				Bromoform	2025/07/29	NC		%	50
				Bromomethane	2025/07/29	NC		%	50
				Carbon Tetrachloride	2025/07/29	NC		%	50
				Chlorobenzene	2025/07/29	NC		%	50
				Chloroform	2025/07/29	NC		%	50
				Dibromochloromethane	2025/07/29	NC		%	50
				1,2-Dichlorobenzene	2025/07/29	NC		%	50
				1,3-Dichlorobenzene	2025/07/29	NC		%	50
				1,4-Dichlorobenzene	2025/07/29	NC		%	50
				Dichlorodifluoromethane (FREON 12)	2025/07/29	NC		%	50
				1,1-Dichloroethane	2025/07/29	NC		%	50
				1,2-Dichloroethane	2025/07/29	NC		%	50
				1,1-Dichloroethylene	2025/07/29	NC		%	50
				cis-1,2-Dichloroethylene	2025/07/29	NC		%	50
				trans-1,2-Dichloroethylene	2025/07/29	NC		%	50
				1,2-Dichloropropane	2025/07/29	NC		%	50
				cis-1,3-Dichloropropene	2025/07/29	NC		%	50
				trans-1,3-Dichloropropene	2025/07/29	NC		%	50



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ATKINSRÉALIS CANADA INC.
Client Project #: 705228
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Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Ethylbenzene	2025/07/29	NC		%	50
				Ethylene Dibromide	2025/07/29	NC		%	50
				Hexane	2025/07/29	7.4		%	50
				Methylene Chloride(Dichloromethane)	2025/07/29	NC		%	50
				Methyl Ethyl Ketone (2-Butanone)	2025/07/29	NC		%	50
				Methyl Isobutyl Ketone	2025/07/29	NC		%	50
				Methyl t-butyl ether (MTBE)	2025/07/29	NC		%	50
				Styrene	2025/07/29	NC		%	50
				1,1,1,2-Tetrachloroethane	2025/07/29	NC		%	50
				1,1,2,2-Tetrachloroethane	2025/07/29	NC		%	50
				Tetrachloroethylene	2025/07/29	NC		%	50
				Toluene	2025/07/29	4.1		%	50
				1,1,1-Trichloroethane	2025/07/29	NC		%	50
				1,1,2-Trichloroethane	2025/07/29	NC		%	50
				Trichloroethylene	2025/07/29	NC		%	50
				Trichlorofluoromethane (FREON 11)	2025/07/29	NC		%	50
				Vinyl Chloride	2025/07/29	NC		%	50
				p+m-Xylene	2025/07/29	2.7		%	50
				o-Xylene	2025/07/29	NC		%	50
				Total Xylenes	2025/07/29	2.7		%	50
				F1 (C6-C10)	2025/07/29	NC		%	30
				F1 (C6-C10) - BTEX	2025/07/29	NC		%	30
9978589	SN1		Matrix Spike	o-Terphenyl	2025/07/29		100	%	60 - 140
				F2 (C10-C16 Hydrocarbons)	2025/07/29		102	%	60 - 140
				F3 (C16-C34 Hydrocarbons)	2025/07/29		107	%	60 - 140
				F4 (C34-C50 Hydrocarbons)	2025/07/29		107	%	60 - 140
9978589	SN1		Spiked Blank	o-Terphenyl	2025/07/29		98	%	60 - 140
				F2 (C10-C16 Hydrocarbons)	2025/07/29		100	%	80 - 120
				F3 (C16-C34 Hydrocarbons)	2025/07/29		105	%	80 - 120
				F4 (C34-C50 Hydrocarbons)	2025/07/29		105	%	80 - 120
9978589	SN1		Method Blank	o-Terphenyl	2025/07/29		101	%	60 - 140
				F2 (C10-C16 Hydrocarbons)	2025/07/29	<7.0		ug/g	
				F3 (C16-C34 Hydrocarbons)	2025/07/29	<50		ug/g	
				F4 (C34-C50 Hydrocarbons)	2025/07/29	<50		ug/g	
9978589	SN1		RPD	F2 (C10-C16 Hydrocarbons)	2025/07/29	NC		%	30
				F3 (C16-C34 Hydrocarbons)	2025/07/29	NC		%	30
				F4 (C34-C50 Hydrocarbons)	2025/07/29	NC		%	30
9978750	LFE		Matrix Spike	D10-Anthracene	2025/07/29		105	%	50 - 130
				D14-Terphenyl (F5)	2025/07/29		100	%	50 - 130
				D8-Acenaphthylene	2025/07/29		79	%	50 - 130
				Acenaphthene	2025/07/29		79	%	50 - 130
				Acenaphthylene	2025/07/29		78	%	50 - 130
				Anthracene	2025/07/29		103	%	50 - 130
				Benzo(a)anthracene	2025/07/29		82	%	50 - 130
				Benzo(a)pyrene	2025/07/29		79	%	50 - 130
				Benzo(b/j)fluoranthene	2025/07/29		82	%	50 - 130
				Benzo(g,h,i)perylene	2025/07/29		90	%	50 - 130
				Benzo(k)fluoranthene	2025/07/29		79	%	50 - 130
				Chrysene	2025/07/29		81	%	50 - 130
				Dibenzo(a,h)anthracene	2025/07/29		78	%	50 - 130
				Fluoranthene	2025/07/29		92	%	50 - 130
				Fluorene	2025/07/29		89	%	50 - 130
				Indeno(1,2,3-cd)pyrene	2025/07/29		92	%	50 - 130



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Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
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Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9978750	LFE	Spiked Blank	1-Methylnaphthalene	2025/07/29		91	%	50 - 130
			2-Methylnaphthalene	2025/07/29		87	%	50 - 130
			Naphthalene	2025/07/29		73	%	50 - 130
			Phenanthrene	2025/07/29		80	%	50 - 130
			Pyrene	2025/07/29		92	%	50 - 130
			D10-Anthracene	2025/07/29		104	%	50 - 130
			D14-Terphenyl (FS)	2025/07/29		98	%	50 - 130
			D8-Acenaphthylene	2025/07/29		81	%	50 - 130
			Acenaphthene	2025/07/29		82	%	50 - 130
			Acenaphthylene	2025/07/29		80	%	50 - 130
			Anthracene	2025/07/29		101	%	50 - 130
			Benzo(a)anthracene	2025/07/29		83	%	50 - 130
			Benzo(a)pyrene	2025/07/29		82	%	50 - 130
			Benzo(b/j)fluoranthene	2025/07/29		90	%	50 - 130
			Benzo(g,h,i)perylene	2025/07/29		93	%	50 - 130
			Benzo(k)fluoranthene	2025/07/29		77	%	50 - 130
			Chrysene	2025/07/29		82	%	50 - 130
			Dibenzo(a,h)anthracene	2025/07/29		81	%	50 - 130
			Fluoranthene	2025/07/29		92	%	50 - 130
			Fluorene	2025/07/29		93	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/07/29		95	%	50 - 130
			1-Methylnaphthalene	2025/07/29		93	%	50 - 130
			2-Methylnaphthalene	2025/07/29		93	%	50 - 130
9978750	LFE	Method Blank	Naphthalene	2025/07/29		82	%	50 - 130
			Phenanthrene	2025/07/29		83	%	50 - 130
			Pyrene	2025/07/29		91	%	50 - 130
			D10-Anthracene	2025/07/29		108	%	50 - 130
			D14-Terphenyl (FS)	2025/07/29		92	%	50 - 130
			D8-Acenaphthylene	2025/07/29		70	%	50 - 130
			Acenaphthene	2025/07/29	<0.0050		ug/g	
			Acenaphthylene	2025/07/29	<0.0050		ug/g	
			Anthracene	2025/07/29	<0.0050		ug/g	
			Benzo(a)anthracene	2025/07/29	<0.0050		ug/g	
			Benzo(a)pyrene	2025/07/29	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2025/07/29	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2025/07/29	<0.0050		ug/g	
			Benzo(k)fluoranthene	2025/07/29	<0.0050		ug/g	
			Chrysene	2025/07/29	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2025/07/29	<0.0050		ug/g	
			Fluoranthene	2025/07/29	<0.0050		ug/g	
			Fluorene	2025/07/29	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2025/07/29	<0.0050		ug/g	
			1-Methylnaphthalene	2025/07/29	<0.0050		ug/g	
			2-Methylnaphthalene	2025/07/29	<0.0050		ug/g	
			Naphthalene	2025/07/29	<0.0050		ug/g	
			Phenanthrene	2025/07/29	<0.0050		ug/g	
			Pyrene	2025/07/29	<0.0050		ug/g	
9978750	LFE	RPD	Acenaphthene	2025/07/29	NC		%	40
			Acenaphthylene	2025/07/29	NC		%	40
			Anthracene	2025/07/29	NC		%	40
			Benzo(a)anthracene	2025/07/29	NC		%	40
			Benzo(a)pyrene	2025/07/29	NC		%	40
			Benzo(b/j)fluoranthene	2025/07/29	NC		%	40



Bureau Veritas Job #: C589953
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9979261	DT1	Matrix Spike		Benzo(g,h,i)perylene	2025/07/29	NC		%	40
				Benzo(k)fluoranthene	2025/07/29	NC		%	40
				Chrysene	2025/07/29	NC		%	40
				Dibenzo(a,h)anthracene	2025/07/29	NC		%	40
				Fluoranthene	2025/07/29	NC		%	40
				Fluorene	2025/07/29	NC		%	40
				Indeno(1,2,3-cd)pyrene	2025/07/29	NC		%	40
				1-Methylnaphthalene	2025/07/29	NC		%	40
				2-Methylnaphthalene	2025/07/29	NC		%	40
				Naphthalene	2025/07/29	NC		%	40
				Phenanthrene	2025/07/29	NC		%	40
				Pyrene	2025/07/29	NC		%	40
				Acid Extractable Antimony (Sb)	2025/07/29		97	%	75 - 125
				Acid Extractable Arsenic (As)	2025/07/29		104	%	75 - 125
				Acid Extractable Barium (Ba)	2025/07/29		NC	%	75 - 125
				Acid Extractable Beryllium (Be)	2025/07/29		102	%	75 - 125
				Acid Extractable Boron (B)	2025/07/29		95	%	75 - 125
				Acid Extractable Cadmium (Cd)	2025/07/29		103	%	75 - 125
				Acid Extractable Chromium (Cr)	2025/07/29		107	%	75 - 125
				Acid Extractable Cobalt (Co)	2025/07/29		105	%	75 - 125
				Acid Extractable Copper (Cu)	2025/07/29		99	%	75 - 125
				Acid Extractable Lead (Pb)	2025/07/29		102	%	75 - 125
				Acid Extractable Molybdenum (Mo)	2025/07/29		97	%	75 - 125
				Acid Extractable Nickel (Ni)	2025/07/29		108	%	75 - 125
				Acid Extractable Selenium (Se)	2025/07/29		104	%	75 - 125
				Acid Extractable Silver (Ag)	2025/07/29		101	%	75 - 125
				Acid Extractable Thallium (Tl)	2025/07/29		101	%	75 - 125
				Acid Extractable Uranium (U)	2025/07/29		107	%	75 - 125
				Acid Extractable Vanadium (V)	2025/07/29		NC	%	75 - 125
				Acid Extractable Zinc (Zn)	2025/07/29		NC	%	75 - 125
				Acid Extractable Mercury (Hg)	2025/07/29		99	%	75 - 125
9979261	DT1	Spiked Blank		Acid Extractable Antimony (Sb)	2025/07/29		99	%	80 - 120
				Acid Extractable Arsenic (As)	2025/07/29		96	%	80 - 120
				Acid Extractable Barium (Ba)	2025/07/29		95	%	80 - 120
				Acid Extractable Beryllium (Be)	2025/07/29		100	%	80 - 120
				Acid Extractable Boron (B)	2025/07/29		97	%	80 - 120
				Acid Extractable Cadmium (Cd)	2025/07/29		98	%	80 - 120
				Acid Extractable Chromium (Cr)	2025/07/29		97	%	80 - 120
				Acid Extractable Cobalt (Co)	2025/07/29		96	%	80 - 120
				Acid Extractable Copper (Cu)	2025/07/29		98	%	80 - 120
				Acid Extractable Lead (Pb)	2025/07/29		100	%	80 - 120
				Acid Extractable Molybdenum (Mo)	2025/07/29		95	%	80 - 120
				Acid Extractable Nickel (Ni)	2025/07/29		101	%	80 - 120
				Acid Extractable Selenium (Se)	2025/07/29		101	%	80 - 120
				Acid Extractable Silver (Ag)	2025/07/29		98	%	80 - 120
				Acid Extractable Thallium (Tl)	2025/07/29		99	%	80 - 120
				Acid Extractable Uranium (U)	2025/07/29		100	%	80 - 120
				Acid Extractable Vanadium (V)	2025/07/29		98	%	80 - 120
				Acid Extractable Zinc (Zn)	2025/07/29		101	%	80 - 120
				Acid Extractable Mercury (Hg)	2025/07/29		98	%	80 - 120
9979261	DT1	Method Blank		Acid Extractable Antimony (Sb)	2025/07/29	<0.20		ug/g	
				Acid Extractable Arsenic (As)	2025/07/29	<1.0		ug/g	
				Acid Extractable Barium (Ba)	2025/07/29	<0.50		ug/g	



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ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9979261	DT1	RPD	Acid Extractable Beryllium (Be)	2025/07/29	<0.20		ug/g	
			Acid Extractable Boron (B)	2025/07/29	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2025/07/29	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2025/07/29	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2025/07/29	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2025/07/29	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2025/07/29	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2025/07/29	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2025/07/29	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2025/07/29	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2025/07/29	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2025/07/29	<0.050		ug/g	
			Acid Extractable Uranium (U)	2025/07/29	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2025/07/29	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2025/07/29	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2025/07/29	<0.050		ug/g	
			Acid Extractable Antimony (Sb)	2025/07/29	NC		%	30
			Acid Extractable Arsenic (As)	2025/07/29	1.6		%	30
			Acid Extractable Barium (Ba)	2025/07/29	3.9		%	30
			Acid Extractable Beryllium (Be)	2025/07/29	7.7		%	30
			Acid Extractable Boron (B)	2025/07/29	6.6		%	30
			Acid Extractable Cadmium (Cd)	2025/07/29	NC		%	30
			Acid Extractable Chromium (Cr)	2025/07/29	3.1		%	30
			Acid Extractable Cobalt (Co)	2025/07/29	0.64		%	30
			Acid Extractable Copper (Cu)	2025/07/29	0.74		%	30
			Acid Extractable Lead (Pb)	2025/07/29	1.9		%	30
			Acid Extractable Molybdenum (Mo)	2025/07/29	NC		%	30
			Acid Extractable Nickel (Ni)	2025/07/29	1.4		%	30
			Acid Extractable Selenium (Se)	2025/07/29	NC		%	30
			Acid Extractable Silver (Ag)	2025/07/29	NC		%	30
			Acid Extractable Thallium (Tl)	2025/07/29	8.8		%	30
			Acid Extractable Uranium (U)	2025/07/29	8.9		%	30
			Acid Extractable Vanadium (V)	2025/07/29	2.9		%	30
			Acid Extractable Zinc (Zn)	2025/07/29	3.9		%	30
			Acid Extractable Mercury (Hg)	2025/07/29	NC		%	30
9979509	GYA	Matrix Spike	WAD Cyanide (Free)	2025/07/30		94	%	75 - 125
9979509	GYA	Spiked Blank	WAD Cyanide (Free)	2025/07/30		96	%	80 - 120
9979509	GYA	Method Blank	WAD Cyanide (Free)	2025/07/30	<0.01		ug/g	
9979509	GYA	RPD	WAD Cyanide (Free)	2025/07/30	NC		%	35
9979522	HK1	Matrix Spike	Chromium (VI)	2025/07/30		97	%	70 - 130
9979522	HK1	Spiked Blank	Chromium (VI)	2025/07/30		96	%	80 - 120
9979522	HK1	Method Blank	Chromium (VI)	2025/07/30	<0.18		ug/g	
9979522	HK1	RPD	Chromium (VI)	2025/07/30	NC		%	35
9979696	JWK	Matrix Spike	Hot Water Ext. Boron (B)	2025/07/30		111	%	75 - 125
9979696	JWK	Spiked Blank	Hot Water Ext. Boron (B)	2025/07/30		103	%	75 - 125
9979696	JWK	Method Blank	Hot Water Ext. Boron (B)	2025/07/30	<0.050		ug/g	
9979696	JWK	RPD	Hot Water Ext. Boron (B)	2025/07/30	1.4		%	40
9979785	GTK	Spiked Blank	Conductivity	2025/07/30		102	%	90 - 110
9979785	GTK	Method Blank	Conductivity	2025/07/30	<0.002		mS/cm	
9979785	GTK	RPD	Conductivity	2025/07/30	0.36		%	10
9979879	GTK	Spiked Blank	Available (CaCl2) pH	2025/07/30		100	%	97 - 103
9979879	GTK	RPD	Available (CaCl2) pH	2025/07/30	0.38		%	N/A
9979958	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2025/07/30		67 (1)	%	75 - 125



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ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9979958	DT1	Spiked Blank		Acid Extractable Arsenic (As)	2025/07/30		95	%	75 - 125
				Acid Extractable Barium (Ba)	2025/07/30		NC	%	75 - 125
				Acid Extractable Beryllium (Be)	2025/07/30		92	%	75 - 125
				Acid Extractable Boron (B)	2025/07/30		95	%	75 - 125
				Acid Extractable Cadmium (Cd)	2025/07/30		94	%	75 - 125
				Acid Extractable Chromium (Cr)	2025/07/30		NC	%	75 - 125
				Acid Extractable Cobalt (Co)	2025/07/30		93	%	75 - 125
				Acid Extractable Copper (Cu)	2025/07/30		NC	%	75 - 125
				Acid Extractable Lead (Pb)	2025/07/30		NC	%	75 - 125
				Acid Extractable Molybdenum (Mo)	2025/07/30		89	%	75 - 125
				Acid Extractable Nickel (Ni)	2025/07/30		97	%	75 - 125
				Acid Extractable Selenium (Se)	2025/07/30		97	%	75 - 125
				Acid Extractable Silver (Ag)	2025/07/30		92	%	75 - 125
				Acid Extractable Thallium (Tl)	2025/07/30		92	%	75 - 125
				Acid Extractable Uranium (U)	2025/07/30		96	%	75 - 125
				Acid Extractable Vanadium (V)	2025/07/30		NC	%	75 - 125
				Acid Extractable Zinc (Zn)	2025/07/30		NC	%	75 - 125
				Acid Extractable Mercury (Hg)	2025/07/30		91	%	75 - 125
				Acid Extractable Antimony (Sb)	2025/07/30		99	%	80 - 120
				Acid Extractable Arsenic (As)	2025/07/30		99	%	80 - 120
				Acid Extractable Barium (Ba)	2025/07/30		102	%	80 - 120
				Acid Extractable Beryllium (Be)	2025/07/30		99	%	80 - 120
				Acid Extractable Boron (B)	2025/07/30		102	%	80 - 120
				Acid Extractable Cadmium (Cd)	2025/07/30		98	%	80 - 120
				Acid Extractable Chromium (Cr)	2025/07/30		98	%	80 - 120
				Acid Extractable Cobalt (Co)	2025/07/30		100	%	80 - 120
				Acid Extractable Copper (Cu)	2025/07/30		100	%	80 - 120
				Acid Extractable Lead (Pb)	2025/07/30		100	%	80 - 120
				Acid Extractable Molybdenum (Mo)	2025/07/30		92	%	80 - 120
				Acid Extractable Nickel (Ni)	2025/07/30		101	%	80 - 120
				Acid Extractable Selenium (Se)	2025/07/30		102	%	80 - 120
				Acid Extractable Silver (Ag)	2025/07/30		95	%	80 - 120
				Acid Extractable Thallium (Tl)	2025/07/30		99	%	80 - 120
				Acid Extractable Uranium (U)	2025/07/30		100	%	80 - 120
				Acid Extractable Vanadium (V)	2025/07/30		100	%	80 - 120
				Acid Extractable Zinc (Zn)	2025/07/30		101	%	80 - 120
				Acid Extractable Mercury (Hg)	2025/07/30		99	%	80 - 120
9979958	DT1	Method Blank		Acid Extractable Antimony (Sb)	2025/07/30	<0.20		ug/g	
				Acid Extractable Arsenic (As)	2025/07/30	<1.0		ug/g	
				Acid Extractable Barium (Ba)	2025/07/30	<0.50		ug/g	
				Acid Extractable Beryllium (Be)	2025/07/30	<0.20		ug/g	
				Acid Extractable Boron (B)	2025/07/30	<5.0		ug/g	
				Acid Extractable Cadmium (Cd)	2025/07/30	<0.10		ug/g	
				Acid Extractable Chromium (Cr)	2025/07/30	<1.0		ug/g	
				Acid Extractable Cobalt (Co)	2025/07/30	<0.10		ug/g	
				Acid Extractable Copper (Cu)	2025/07/30	<0.50		ug/g	
				Acid Extractable Lead (Pb)	2025/07/30	<1.0		ug/g	
				Acid Extractable Molybdenum (Mo)	2025/07/30	<0.50		ug/g	
				Acid Extractable Nickel (Ni)	2025/07/30	<0.50		ug/g	
				Acid Extractable Selenium (Se)	2025/07/30	<0.50		ug/g	
				Acid Extractable Silver (Ag)	2025/07/30	<0.20		ug/g	
				Acid Extractable Thallium (Tl)	2025/07/30	<0.050		ug/g	
				Acid Extractable Uranium (U)	2025/07/30	<0.050		ug/g	



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ATKINSRÉALIS CANADA INC.

Client Project #: 705228

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Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9979958	DT1	RPD	Acid Extractable Vanadium (V)	2025/07/30	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2025/07/30	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2025/07/30	<0.050		ug/g	
			Acid Extractable Antimony (Sb)	2025/07/30	15		%	30
			Acid Extractable Arsenic (As)	2025/07/30	5.2		%	30
			Acid Extractable Barium (Ba)	2025/07/30	1.1		%	30
			Acid Extractable Beryllium (Be)	2025/07/30	5.7		%	30
			Acid Extractable Boron (B)	2025/07/30	2.0		%	30
			Acid Extractable Cadmium (Cd)	2025/07/30	2.7		%	30
			Acid Extractable Chromium (Cr)	2025/07/30	1.7		%	30
			Acid Extractable Cobalt (Co)	2025/07/30	7.0		%	30
			Acid Extractable Copper (Cu)	2025/07/30	9.0		%	30
			Acid Extractable Lead (Pb)	2025/07/30	3.0		%	30
			Acid Extractable Molybdenum (Mo)	2025/07/30	7.1		%	30
			Acid Extractable Nickel (Ni)	2025/07/30	2.1		%	30
			Acid Extractable Selenium (Se)	2025/07/30	NC		%	30
			Acid Extractable Silver (Ag)	2025/07/30	28		%	30
			Acid Extractable Thallium (Tl)	2025/07/30	NC		%	30
			Acid Extractable Uranium (U)	2025/07/30	2.4		%	30
			Acid Extractable Vanadium (V)	2025/07/30	1.9		%	30
			Acid Extractable Zinc (Zn)	2025/07/30	0.54		%	30
			Acid Extractable Mercury (Hg)	2025/07/30	10		%	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.								
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								



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Client Project #: 705228
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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink that reads "Louise A. Harding".

Louise Harding, Scientific Specialist

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

C589953
2025/07/24 09:50

Bureau Veritas
36 Antares Dr Unit 100, Nepean, Ontario Canada K2E 7W5 Tel: (613) 274-0573 Toll-free: 800-563-6266 Fax: (613) 274-0574 www.bvna.com

Received in Ottawa

CHAIN OF CUSTODY RECORD

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INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #21644 ATKINSREALIS CANADA INC.		Company Name: #19080 AtkinsRealis		Quotation #: C31302		Bureau Veritas Job #:	
Attention: Accounts Payable		Attention: Sean Gariano		P.O. #: 49644		Bottle Order #:	
Address: 455 René-Lévesque Blvd. West		Address: 1145 Hunt Club Road Suite 120		Project: 705228		1053670	
Montreal QC H2Z 1Z3		Nepean ON K1V 0Y3		Project Name: C10231		COC #:	
Tel: (613) 226-2456		Tel: (613) 226-2456		Site #:		Project Manager:	
Email: payables@atkinsrealis.com		Email: sean.gariano@atkinsrealis.com; ON_LabData@snclava		Sampled By:		Babandeep Kaur	
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)			
Regulation 153 (2011)		Other Regulations		Special Instructions		Turnaround Time (TAT) Required:	
☐ Table 1 ☐ Res/Park ☒ Medium/Fine		☐ CCME ☐ S. City Sewer Bylaw				Regular (Standard) TAT: ☒	
☐ Table 2 ☒ Ind/Comm ☐ Coarse		☐ Reg 558 ☐ Storm Sewer Bylaw				(will be applied if Rush TAT is not specified):	
☐ Table 3 ☐ Agri/Other ☐ For RSC		☐ MISA Municipality				Standard TAT = 5-7 Working days for most tests.	
☒ Table 9		☐ PWQO ☐ Reg 406 Table				Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
☐ Other						Job Specific Rush TAT (if applies to entire submission)	
						Date Required: Time Required:	
						Rush Confirmation: Number: (call lab for #)	
Include Criteria on Certificate of Analysis (Y/N)?						# of Bottles Comment:	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr / Vt	O Reg 153 VOCE by HS & F1-F4	O Reg 153 PAHs
1	B125-04-04	Wed Jul 23/25	9:25	Soil		X	X
2	B125-05-05		12:50			X	X
3	B125-05-04		12:45			X	X
4	B125-06-04		14:55			X	X
5	B125-06-05		15:00			X	X
6							
7							
8							
9							
10							
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted
Sean Gariano		25/07/23	17:15	Redo da Silva	2025/07/24	09:50	
Time Sensitive		Temperature (°C) on Receipt		Custody Seal		Yes	No
4/4/19 (ice)				Present		✓	
				Intact			
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S 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.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.				White: Bureau Veritas Yellow: Client			
* 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.				SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS			
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.							

Bureau Veritas Canada (2019) Inc.



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053870-03-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/08/05
Report #: R8588150
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C590042

Received: 2025/07/24, 09:50

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Semivolatile Organic Compounds (TCLP) (1)	1	2025/07/31	2025/08/01	CAM SOP-00301	EPA 8270E m
Cyanide (WAD) in Leachates (1)	1	N/A	2025/07/31	CAM SOP-00457	OMOE 3015 m
Fluoride by ISE in Leachates (1)	1	2025/07/31	2025/07/31	CAM SOP-00449	SM 24 4500-F- C m
Total Metals in TCLP Leachate by ICPMS (1)	1	2025/07/31	2025/07/31	CAM SOP-00447	EPA 6020B m
Ignitability of a Sample (1)	1	2025/08/05	2025/08/05	CAM SOP-00432	EPA 1030 Rev. 1 m
Nitrate& Nitrite as Nitrogen in Leachate (1)	1	N/A	2025/07/31	CAM SOP-00440	SM 24 4500-NO3I/NO2B
TCLP - % Solids (1)	1	2025/07/30	2025/07/31	CAM SOP-00401	EPA 1311 Update I m
TCLP - Extraction Fluid (1)	1	N/A	2025/07/31	CAM SOP-00401	EPA 1311 Update I m
TCLP - Initial and final pH (1)	1	N/A	2025/07/31	CAM SOP-00401	EPA 1311 Update I m
TCLP Zero Headspace Extraction (1)	1	2025/07/30	2025/07/31	CAM SOP-00430	EPA 1311 m
VOCs in ZHE Leachates (1)	1	2025/07/31	2025/08/01	CAM SOP-00228	EPA 8260D

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, EPA, APHA or the Quebec Ministry of Environment.

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.



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053870-03-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/08/05
Report #: R8588150
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C590042

Received: 2025/07/24, 09:50

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Babandeep Kaur, Project Manager 2
Email: Babandeep.kaur@bureauveritas.com
Phone# (613) 274-0573

=====

This report has been generated and distributed using a secure automated process.

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ATJK56		
Sampling Date		2025/07/23 09:10		
COC Number		C#1053870-03-01		
	UNITS	TCLP	RDL	QC Batch
Charge/Prep Analysis				
Amount Extracted (Wet Weight) (g)	N/A	25	N/A	9979876
Inorganics				
Final pH	pH	4.98		9980674
Leachable Fluoride (F-)	mg/L	0.16	0.10	9980782
Initial pH	pH	9.69		9980674
TCLP - % Solids	%	100	0.2	9980060
TCLP Extraction Fluid	N/A	FLUID I		9980673
Leachable WAD Cyanide (Free)	mg/L	<0.010	0.010	9980787
Leachable Nitrite (N)	mg/L	<0.10	0.10	9980786
Leachable Nitrate (N)	mg/L	<1.0	1.0	9980786
Leachable Nitrate + Nitrite (N)	mg/L	<1.0	1.0	9980786
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable				



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ATJK56		
Sampling Date		2025/07/23 09:10		
COC Number		C#1053870-03-01		
	UNITS	TCLP	RDL	QC Batch
Metals				
Leachable Arsenic (As)	mg/L	<0.2	0.2	9980867
Leachable Barium (Ba)	mg/L	0.3	0.2	9980867
Leachable Boron (B)	mg/L	0.1	0.1	9980867
Leachable Cadmium (Cd)	mg/L	<0.05	0.05	9980867
Leachable Chromium (Cr)	mg/L	<0.1	0.1	9980867
Leachable Lead (Pb)	mg/L	<0.1	0.1	9980867
Leachable Mercury (Hg)	mg/L	<0.001	0.001	9980867
Leachable Selenium (Se)	mg/L	<0.1	0.1	9980867
Leachable Silver (Ag)	mg/L	<0.01	0.01	9980867
Leachable Uranium (U)	mg/L	<0.01	0.01	9980867
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		ATJK56		
Sampling Date		2025/07/23 09:10		
COC Number		C#1053870-03-01		
	UNITS	TCLP	RDL	QC Batch
Semivolatile Organics				
Leachable Benzo(a)pyrene	ug/L	<0.10	0.10	9980973
Leachable m/p-Cresol	ug/L	<2.5	2.5	9980973
Leachable o-Cresol	ug/L	<2.5	2.5	9980973
Leachable Cresol Total	ug/L	<2.5	2.5	9980973
Leachable 2,4-Dichlorophenol	ug/L	<2.5	2.5	9980973
Leachable 2,4-Dinitrotoluene	ug/L	<10	10	9980973
Leachable Hexachlorobenzene	ug/L	<10	10	9980973
Leachable Hexachlorobutadiene	ug/L	<10	10	9980973
Leachable Hexachloroethane	ug/L	<10	10	9980973
Leachable Nitrobenzene	ug/L	<10	10	9980973
Leachable Pentachlorophenol	ug/L	<2.5	2.5	9980973
Leachable Pyridine	ug/L	<10	10	9980973
Leachable 2,3,4,6-Tetrachlorophenol	ug/L	<2.5	2.5	9980973
Leachable 2,4,5-Trichlorophenol	ug/L	<0.50	0.50	9980973
Leachable 2,4,6-Trichlorophenol	ug/L	<2.5	2.5	9980973
Surrogate Recovery (%)				
Leachable 2,4,6-Tribromophenol	%	79		9980973
Leachable 2-Fluorobiphenyl	%	82		9980973
Leachable 2-Fluorophenol	%	45		9980973
Leachable D14-Terphenyl (FS)	%	86		9980973
Leachable D5-Nitrobenzene	%	84		9980973
Leachable D5-Phenol	%	34		9980973
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATJK56		
Sampling Date		2025/07/23 09:10		
COC Number		C#1053870-03-01		
	UNITS	TCLP	RDL	QC Batch
Volatile Organics				
Leachable Benzene	mg/L	<0.020	0.020	9980706
Leachable Carbon Tetrachloride	mg/L	<0.020	0.020	9980706
Leachable Chlorobenzene	mg/L	<0.020	0.020	9980706
Leachable Chloroform	mg/L	<0.020	0.020	9980706
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	0.050	9980706
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	0.050	9980706
Leachable 1,2-Dichloroethane	mg/L	<0.050	0.050	9980706
Leachable 1,1-Dichloroethylene	mg/L	<0.020	0.020	9980706
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	0.20	9980706
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	1.0	9980706
Leachable Tetrachloroethylene	mg/L	<0.020	0.020	9980706
Leachable Trichloroethylene	mg/L	<0.020	0.020	9980706
Leachable Vinyl Chloride	mg/L	<0.020	0.020	9980706
Surrogate Recovery (%)				
Leachable 4-Bromofluorobenzene	%	101		9980706
Leachable D4-1,2-Dichloroethane	%	109		9980706
Leachable D8-Toluene	%	99		9980706
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

MISCELLANEOUS (SOIL)

Bureau Veritas ID		ATJK56	
Sampling Date		2025/07/23 09:10	
COC Number		C#1053870-03-01	
	UNITS	TCLP	QC Batch
Inorganics			
Ignitability	N/A	NF/NI	9983128
QC Batch = Quality Control Batch			



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATJK56
Sample ID: TCLP
Matrix: Soil

Collected: 2025/07/23
Shipped:
Received: 2025/07/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Semivolatile Organic Compounds (TCLP)	GC/MS	9980973	2025/07/31	2025/08/01	Wendy Zhao
Cyanide (WAD) in Leachates	SKAL/CN	9980787	N/A	2025/07/31	Prgya Panchal
Fluoride by ISE in Leachates	ISE	9980782	2025/07/31	2025/07/31	Nachiketa Gohil
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	9980867	2025/07/31	2025/07/31	Azita Fazaeli
Ignitability of a Sample	BAL	9983128	2025/08/05	2025/08/05	Joe Thomas
Nitrate& Nitrite as Nitrogen in Leachate	LACH	9980786	N/A	2025/07/31	Helen He
TCLP - % Solids	BAL	9980060	2025/07/30	2025/07/31	Abdul Rahman Mohammed
TCLP - Extraction Fluid		9980673	N/A	2025/07/31	Abdul Rahman Mohammed
TCLP - Initial and final pH	PH	9980674	N/A	2025/07/31	Abdul Rahman Mohammed
TCLP Zero Headspace Extraction		9979876	2025/07/30	2025/07/31	Daniel Ojimadu
VOCs in ZHE Leachates	GC/MS	9980706	2025/07/31	2025/08/01	Gabriella Morrone



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.7°C
-----------	-------

Sample ATJK56 [TCLP] : TCLP VOCs Extraction: Sample bags, all containing headspace, were composited prior to extraction. Analysis was performed with client's consent.

NF/NI = Non Flammable and Non Ignitable.

Results relate only to the items tested.



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980706	GMN	Matrix Spike		Leachable 4-Bromofluorobenzene	2025/08/01		103	%	70 - 130
				Leachable D4-1,2-Dichloroethane	2025/08/01		107	%	70 - 130
				Leachable D8-Toluene	2025/08/01		100	%	70 - 130
				Leachable Benzene	2025/08/01		105	%	70 - 130
				Leachable Carbon Tetrachloride	2025/08/01		119	%	70 - 130
				Leachable Chlorobenzene	2025/08/01		96	%	70 - 130
				Leachable Chloroform	2025/08/01		111	%	70 - 130
				Leachable 1,2-Dichlorobenzene	2025/08/01		103	%	70 - 130
				Leachable 1,4-Dichlorobenzene	2025/08/01		101	%	70 - 130
				Leachable 1,2-Dichloroethane	2025/08/01		111	%	70 - 130
				Leachable 1,1-Dichloroethylene	2025/08/01		111	%	70 - 130
				Leachable Methylene Chloride(Dichloromethan	2025/08/01		108	%	70 - 130
				Leachable Methyl Ethyl Ketone (2-Butanone)	2025/08/01		103	%	60 - 140
				Leachable Tetrachloroethylene	2025/08/01		104	%	70 - 130
				Leachable Trichloroethylene	2025/08/01		109	%	70 - 130
				Leachable Vinyl Chloride	2025/08/01		107	%	70 - 130
9980706	GMN	Spiked Blank		Leachable 4-Bromofluorobenzene	2025/07/31		103	%	70 - 130
				Leachable D4-1,2-Dichloroethane	2025/07/31		108	%	70 - 130
				Leachable D8-Toluene	2025/07/31		100	%	70 - 130
				Leachable Benzene	2025/07/31		105	%	70 - 130
				Leachable Carbon Tetrachloride	2025/07/31		120	%	70 - 130
				Leachable Chlorobenzene	2025/07/31		97	%	70 - 130
				Leachable Chloroform	2025/07/31		112	%	70 - 130
				Leachable 1,2-Dichlorobenzene	2025/07/31		105	%	70 - 130
				Leachable 1,4-Dichlorobenzene	2025/07/31		103	%	70 - 130
				Leachable 1,2-Dichloroethane	2025/07/31		112	%	70 - 130
				Leachable 1,1-Dichloroethylene	2025/07/31		113	%	70 - 130
				Leachable Methylene Chloride(Dichloromethan	2025/07/31		109	%	70 - 130
				Leachable Methyl Ethyl Ketone (2-Butanone)	2025/07/31		104	%	60 - 140
				Leachable Tetrachloroethylene	2025/07/31		106	%	70 - 130
				Leachable Trichloroethylene	2025/07/31		110	%	70 - 130
				Leachable Vinyl Chloride	2025/07/31		108	%	70 - 130
9980706	GMN	Method Blank		Leachable 4-Bromofluorobenzene	2025/07/31		101	%	70 - 130
				Leachable D4-1,2-Dichloroethane	2025/07/31		109	%	70 - 130
				Leachable D8-Toluene	2025/07/31		98	%	70 - 130
				Leachable Benzene	2025/07/31	<0.020		mg/L	
				Leachable Carbon Tetrachloride	2025/07/31	<0.020		mg/L	
				Leachable Chlorobenzene	2025/07/31	<0.020		mg/L	
				Leachable Chloroform	2025/07/31	<0.020		mg/L	
				Leachable 1,2-Dichlorobenzene	2025/07/31	<0.050		mg/L	
				Leachable 1,4-Dichlorobenzene	2025/07/31	<0.050		mg/L	
				Leachable 1,2-Dichloroethane	2025/07/31	<0.050		mg/L	
				Leachable 1,1-Dichloroethylene	2025/07/31	<0.020		mg/L	
				Leachable Methylene Chloride(Dichloromethan	2025/07/31	<0.20		mg/L	
				Leachable Methyl Ethyl Ketone (2-Butanone)	2025/07/31	<1.0		mg/L	
				Leachable Tetrachloroethylene	2025/07/31	<0.020		mg/L	
				Leachable Trichloroethylene	2025/07/31	<0.020		mg/L	
				Leachable Vinyl Chloride	2025/07/31	<0.020		mg/L	
9980706	GMN	RPD		Leachable Benzene	2025/07/31	NC		%	30
				Leachable Carbon Tetrachloride	2025/07/31	NC		%	30
				Leachable Chlorobenzene	2025/07/31	NC		%	30
				Leachable Chloroform	2025/07/31	NC		%	30
				Leachable 1,2-Dichlorobenzene	2025/07/31	NC		%	30



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Leachable 1,4-Dichlorobenzene	2025/07/31	NC		%	30
				Leachable 1,2-Dichloroethane	2025/07/31	NC		%	30
				Leachable 1,1-Dichloroethylene	2025/07/31	NC		%	30
				Leachable Methylene Chloride(Dichloromethan	2025/07/31	NC		%	30
				Leachable Methyl Ethyl Ketone (2-Butanone)	2025/07/31	NC		%	30
				Leachable Tetrachloroethylene	2025/07/31	NC		%	30
				Leachable Trichloroethylene	2025/07/31	NC		%	30
				Leachable Vinyl Chloride	2025/07/31	NC		%	30
9980782	NGI	Matrix Spike		Leachable Fluoride (F-)	2025/07/31		87	%	80 - 120
9980782	NGI	Leachate Blank		Leachable Fluoride (F-)	2025/07/31	<0.10		mg/L	
9980782	NGI	Spiked Blank		Leachable Fluoride (F-)	2025/07/31		99	%	80 - 120
9980782	NGI	Method Blank		Leachable Fluoride (F-)	2025/07/31	<0.10		mg/L	
9980782	NGI	RPD		Leachable Fluoride (F-)	2025/07/31	0.97		%	25
9980786	HH	Matrix Spike		Leachable Nitrite (N)	2025/07/31		103	%	80 - 120
				Leachable Nitrate (N)	2025/07/31		72 (1)	%	80 - 120
				Leachable Nitrate + Nitrite (N)	2025/07/31		78 (1)	%	80 - 120
9980786	HH	Leachate Blank		Leachable Nitrite (N)	2025/07/31	<0.10		mg/L	
				Leachable Nitrate (N)	2025/07/31	<1.0		mg/L	
				Leachable Nitrate + Nitrite (N)	2025/07/31	<1.0		mg/L	
9980786	HH	Spiked Blank		Leachable Nitrite (N)	2025/07/31		106	%	80 - 120
				Leachable Nitrate (N)	2025/07/31		90	%	80 - 120
				Leachable Nitrate + Nitrite (N)	2025/07/31		93	%	80 - 120
9980786	HH	Method Blank		Leachable Nitrite (N)	2025/07/31	<0.10		mg/L	
				Leachable Nitrate (N)	2025/07/31	<1.0		mg/L	
				Leachable Nitrate + Nitrite (N)	2025/07/31	<1.0		mg/L	
9980786	HH	RPD		Leachable Nitrite (N)	2025/07/31	NC		%	20
				Leachable Nitrate (N)	2025/07/31	NC		%	20
				Leachable Nitrate + Nitrite (N)	2025/07/31	NC		%	20
9980787	GYA	Matrix Spike		Leachable WAD Cyanide (Free)	2025/08/01		78 (2)	%	80 - 120
9980787	GYA	Leachate Blank		Leachable WAD Cyanide (Free)	2025/07/31	<0.010		mg/L	
9980787	GYA	Spiked Blank		Leachable WAD Cyanide (Free)	2025/07/31		90	%	80 - 120
9980787	GYA	Method Blank		Leachable WAD Cyanide (Free)	2025/07/31	<0.0020		mg/L	
9980787	GYA	RPD		Leachable WAD Cyanide (Free)	2025/08/01	NC		%	20
9980867	AFZ	Matrix Spike		Leachable Arsenic (As)	2025/07/31		102	%	80 - 120
				Leachable Barium (Ba)	2025/07/31		93	%	80 - 120
				Leachable Boron (B)	2025/07/31		99	%	80 - 120
				Leachable Cadmium (Cd)	2025/07/31		99	%	80 - 120
				Leachable Chromium (Cr)	2025/07/31		100	%	80 - 120
				Leachable Lead (Pb)	2025/07/31		97	%	80 - 120
				Leachable Mercury (Hg)	2025/07/31		96	%	80 - 120
				Leachable Selenium (Se)	2025/07/31		101	%	80 - 120
				Leachable Silver (Ag)	2025/07/31		97	%	80 - 120
				Leachable Uranium (U)	2025/07/31		100	%	80 - 120
9980867	AFZ	Leachate Blank		Leachable Arsenic (As)	2025/07/31	<0.2		mg/L	
				Leachable Barium (Ba)	2025/07/31	<0.2		mg/L	
				Leachable Boron (B)	2025/07/31	<0.1		mg/L	
				Leachable Cadmium (Cd)	2025/07/31	<0.05		mg/L	
				Leachable Chromium (Cr)	2025/07/31	<0.1		mg/L	
				Leachable Lead (Pb)	2025/07/31	<0.1		mg/L	
				Leachable Mercury (Hg)	2025/07/31	<0.001		mg/L	
				Leachable Selenium (Se)	2025/07/31	<0.1		mg/L	
				Leachable Silver (Ag)	2025/07/31	<0.01		mg/L	
				Leachable Uranium (U)	2025/07/31	<0.01		mg/L	



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980867	AFZ	RPD		Leachable Arsenic (As)	2025/07/31	NC		%	35
				Leachable Barium (Ba)	2025/07/31	NC		%	35
				Leachable Boron (B)	2025/07/31	NC		%	35
				Leachable Cadmium (Cd)	2025/07/31	NC		%	35
				Leachable Chromium (Cr)	2025/07/31	NC		%	35
				Leachable Lead (Pb)	2025/07/31	NC		%	35
				Leachable Mercury (Hg)	2025/07/31	NC		%	35
				Leachable Selenium (Se)	2025/07/31	NC		%	35
				Leachable Silver (Ag)	2025/07/31	NC		%	35
				Leachable Uranium (U)	2025/07/31	NC		%	35
				Leachable Arsenic (As)	2025/07/31	NC		%	35
				Leachable Barium (Ba)	2025/07/31	0.37		%	35
				Leachable Boron (B)	2025/07/31	NC		%	35
				Leachable Cadmium (Cd)	2025/07/31	NC		%	35
				Leachable Chromium (Cr)	2025/07/31	NC		%	35
				Leachable Lead (Pb)	2025/07/31	NC		%	35
				Leachable Mercury (Hg)	2025/07/31	NC		%	35
				Leachable Selenium (Se)	2025/07/31	NC		%	35
				Leachable Silver (Ag)	2025/07/31	NC		%	35
				Leachable Uranium (U)	2025/07/31	NC		%	35
9980867	AFZ	Spiked Blank		Leachable Arsenic (As)	2025/07/31		98	%	80 - 120
				Leachable Barium (Ba)	2025/07/31		102	%	80 - 120
				Leachable Boron (B)	2025/07/31		96	%	80 - 120
				Leachable Cadmium (Cd)	2025/07/31		98	%	80 - 120
				Leachable Chromium (Cr)	2025/07/31		96	%	80 - 120
				Leachable Lead (Pb)	2025/07/31		98	%	80 - 120
				Leachable Mercury (Hg)	2025/07/31		96	%	80 - 120
				Leachable Selenium (Se)	2025/07/31		101	%	80 - 120
				Leachable Silver (Ag)	2025/07/31		95	%	80 - 120
				Leachable Uranium (U)	2025/07/31		99	%	80 - 120
9980867	AFZ	Method Blank		Leachable Arsenic (As)	2025/07/31	<0.2		mg/L	
				Leachable Barium (Ba)	2025/07/31	<0.2		mg/L	
				Leachable Boron (B)	2025/07/31	<0.1		mg/L	
				Leachable Cadmium (Cd)	2025/07/31	<0.05		mg/L	
				Leachable Chromium (Cr)	2025/07/31	<0.1		mg/L	
				Leachable Lead (Pb)	2025/07/31	<0.1		mg/L	
				Leachable Mercury (Hg)	2025/07/31	<0.001		mg/L	
				Leachable Selenium (Se)	2025/07/31	<0.1		mg/L	
				Leachable Silver (Ag)	2025/07/31	<0.01		mg/L	
				Leachable Uranium (U)	2025/07/31	<0.01		mg/L	
9980973	WZ	Matrix Spike		Leachable 2,4,6-Tribromophenol	2025/08/01		92	%	10 - 130
				Leachable 2-Fluorobiphenyl	2025/08/01		72	%	30 - 130
				Leachable 2-Fluorophenol	2025/08/01		55	%	10 - 130
				Leachable D14-Terphenyl (FS)	2025/08/01		87	%	30 - 130
				Leachable D5-Nitrobenzene	2025/08/01		76	%	30 - 130
				Leachable D5-Phenol	2025/08/01		38	%	10 - 130
				Leachable Benzo(a)pyrene	2025/08/01		113	%	30 - 130
				Leachable m/p-Cresol	2025/08/01		58	%	10 - 130
				Leachable o-Cresol	2025/08/01		65	%	10 - 130
				Leachable Cresol Total	2025/08/01		61	%	10 - 130
				Leachable 2,4-Dichlorophenol	2025/08/01		69	%	10 - 130
				Leachable 2,4-Dinitrotoluene	2025/08/01		95	%	30 - 130
				Leachable Hexachlorobenzene	2025/08/01		98	%	30 - 130



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980973	WZ	Spiked Blank		Leachable Hexachlorobutadiene	2025/08/01		69	%	30 - 130
				Leachable Hexachloroethane	2025/08/01		69	%	30 - 130
				Leachable Nitrobenzene	2025/08/01		82	%	30 - 130
				Leachable Pentachlorophenol	2025/08/01		103	%	30 - 130
				Leachable Pyridine	2025/08/01		23	%	10 - 130
				Leachable 2,3,4,6-Tetrachlorophenol	2025/08/01		94	%	10 - 130
				Leachable 2,4,5-Trichlorophenol	2025/08/01		73	%	10 - 130
				Leachable 2,4,6-Trichlorophenol	2025/08/01		78	%	10 - 130
				Leachable 2,4,6-Tribromophenol	2025/08/01		93	%	10 - 130
				Leachable 2-Fluorobiphenyl	2025/08/01		84	%	30 - 130
				Leachable 2-Fluorophenol	2025/08/01		75	%	10 - 130
				Leachable D14-Terphenyl (FS)	2025/08/01		89	%	30 - 130
				Leachable D5-Nitrobenzene	2025/08/01		88	%	30 - 130
				Leachable D5-Phenol	2025/08/01		43	%	10 - 130
				Leachable Benzo(a)pyrene	2025/08/01		107	%	30 - 130
				Leachable m/p-Cresol	2025/08/01		66	%	10 - 130
				Leachable o-Cresol	2025/08/01		76	%	10 - 130
				Leachable Cresol Total	2025/08/01		71	%	10 - 130
				Leachable 2,4-Dichlorophenol	2025/08/01		89	%	10 - 130
				Leachable 2,4-Dinitrotoluene	2025/08/01		93	%	30 - 130
				Leachable Hexachlorobenzene	2025/08/01		100	%	30 - 130
				Leachable Hexachlorobutadiene	2025/08/01		79	%	30 - 130
				Leachable Hexachloroethane	2025/08/01		79	%	30 - 130
				Leachable Nitrobenzene	2025/08/01		92	%	30 - 130
				Leachable Pentachlorophenol	2025/08/01		100	%	30 - 130
				Leachable Pyridine	2025/08/01		63	%	10 - 130
				Leachable 2,3,4,6-Tetrachlorophenol	2025/08/01		95	%	10 - 130
				Leachable 2,4,5-Trichlorophenol	2025/08/01		93	%	10 - 130
				Leachable 2,4,6-Trichlorophenol	2025/08/01		90	%	10 - 130
9980973	WZ	Method Blank		Leachable 2,4,6-Tribromophenol	2025/08/01		79	%	10 - 130
				Leachable 2-Fluorobiphenyl	2025/08/01		78	%	30 - 130
				Leachable 2-Fluorophenol	2025/08/01		66	%	10 - 130
				Leachable D14-Terphenyl (FS)	2025/08/01		86	%	30 - 130
				Leachable D5-Nitrobenzene	2025/08/01		79	%	30 - 130
				Leachable D5-Phenol	2025/08/01		37	%	10 - 130
				Leachable Benzo(a)pyrene	2025/08/01	<0.10		ug/L	
				Leachable m/p-Cresol	2025/08/01	<2.5		ug/L	
				Leachable o-Cresol	2025/08/01	<2.5		ug/L	
				Leachable Cresol Total	2025/08/01	<2.5		ug/L	
				Leachable 2,4-Dichlorophenol	2025/08/01	<2.5		ug/L	
				Leachable 2,4-Dinitrotoluene	2025/08/01	<10		ug/L	
				Leachable Hexachlorobenzene	2025/08/01	<10		ug/L	
				Leachable Hexachlorobutadiene	2025/08/01	<10		ug/L	
				Leachable Hexachloroethane	2025/08/01	<10		ug/L	
				Leachable Nitrobenzene	2025/08/01	<10		ug/L	
				Leachable Pentachlorophenol	2025/08/01	<2.5		ug/L	
				Leachable Pyridine	2025/08/01	<10		ug/L	
				Leachable 2,3,4,6-Tetrachlorophenol	2025/08/01	<2.5		ug/L	
				Leachable 2,4,5-Trichlorophenol	2025/08/01	<0.50		ug/L	
				Leachable 2,4,6-Trichlorophenol	2025/08/01	<2.5		ug/L	
9980973	WZ	RPD		Leachable Benzo(a)pyrene	2025/08/01	NC		%	40
				Leachable m/p-Cresol	2025/08/01	NC		%	40
				Leachable o-Cresol	2025/08/01	NC		%	40



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Leachable Cresol Total	2025/08/01	NC		%	40
			Leachable 2,4-Dichlorophenol	2025/08/01	NC		%	40
			Leachable 2,4-Dinitrotoluene	2025/08/01	NC		%	40
			Leachable Hexachlorobenzene	2025/08/01	NC		%	40
			Leachable Hexachlorobutadiene	2025/08/01	NC		%	40
			Leachable Hexachloroethane	2025/08/01	NC		%	40
			Leachable Nitrobenzene	2025/08/01	NC		%	40
			Leachable Pentachlorophenol	2025/08/01	NC		%	40
			Leachable Pyridine	2025/08/01	NC		%	40
			Leachable 2,3,4,6-Tetrachlorophenol	2025/08/01	NC		%	40
			Leachable 2,4,5-Trichlorophenol	2025/08/01	NC		%	40
			Leachable 2,4,6-Trichlorophenol	2025/08/01	NC		%	40

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 (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 $\leq 2 \times \text{RDL}$).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Matrix Spike exceeds acceptance limits, probable matrix interference



Bureau Veritas Job #: C590042
Report Date: 2025/08/05

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

CHAIN OF CUSTODY RECORD

Bureau Veritas 36 Av. des Arts, 100, Nepean, Ontario Canada K2E 7W5 Tel: (613) 274-0573 Toll-free 800-563-6266 Fax: (613) 274-0574 www.bvna.com		INVOICE TO: Company Name: #21644 ATKINSREALIS CANADA INC. Attention: Accounts Payable Address: 455 René-Lévesque Blvd. West Montreal QC H2Z 1Z3 Tel: (613) 226-2456 Fax: (613) 226-2456 Email: payables@atkinsrealis.com		REPORT TO: Company Name: #19080 AtkinsRealis Attention: Sean Gariano Address: 1145 Hunt Club Road Suite 120 Nepean ON K1V 0Y3 Tel: (613) 226-2456 Fax: (613) 226-2456 Email: sean.gariano@atkinsrealis.com; ON_LabData@snclava		PROJECT INFORMATION: Quotation #: C31302 P.O. #: 49644 Project: 705228 Project Name: C10231 Site #: C10231 Sampled By:		Laboratory Use Only: Bureau Veritas Job #: 1053870 Bottle Order #: 1053870 COC #: 1053870-03-01 Project Manager: Babandeep Kaur			
DO NOT REGULATE DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Turnaround Time (TAT) Required: Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Rush TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Clostridium/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:			
Regulation 153 (2011) ☐ Table 1 ☐ Res/Park ☒ Medium/Fine ☐ Table 2 ☒ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☒ Table 4				Other Regulations ☐ COME ☐ Sanitary Sewer Bylaw ☐ Reg 508 ☐ Storm Sewer Bylaw ☐ MESA Municipality ☐ PWDQ ☐ Reg 400 Table ☐ Other				Special Instructions			
Include Criteria on Certificate of Analysis (Y/N)?				Field Filtered (Please circle): Metals / Hg / Cr / V				Analysis Requested (Please be specific): TAP VOCs TAP VOCs TAP metals TAP ignitability			
Sample Bar-code Label		Sample (Location) Identification		Date Sampled		Time Sampled		Matrix			
1		TCLP		23/25		9:10		Soil			
2											
3											
4											
5											
6											
7											
8											
9											
10											
RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)		Time		RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)			
Babandeep Kaur		25/07/24		17:50		Babandeep Kaur		25/07/24			
# Jars used and not submitted		Laboratory Use Only		Time Sensitive		Temperature (°C) on Receipt		Custody Seal			
Yes		No		Yes		No		Yes			

24-Jul-25 09:50

Babandeep Kaur



C590042

J_L

ENV-1768



NONT-2025-07-5415



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: 1053870-04-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/07/31
Report #: R8586487
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C590047

Received: 2025/07/24, 16:22

Sample Matrix: Soil
Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum (1)	3	N/A	2025/07/29	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron (1)	3	2025/07/30	2025/07/30	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	3	N/A	2025/07/30		EPA 8260C m
Free (WAD) Cyanide (1)	3	2025/07/30	2025/07/30	CAM SOP-00457	OMOE E3015 m
Conductivity (1)	3	2025/07/30	2025/07/30	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1, 2)	3	2025/07/30	2025/07/30	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	3	2025/07/29	2025/07/29	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS (1)	3	2025/07/29	2025/07/29	CAM SOP-00447	EPA 6020B m
Moisture (1)	3	N/A	2025/07/26	CAM SOP-00445	Carter 2nd ed 70.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	3	2025/07/28	2025/07/29	CAM SOP-00318	EPA 8270E
pH CaCl2 EXTRACT (1)	3	2025/07/30	2025/07/30	CAM SOP-00413	EPA 9045 D m
Sieve, 75um (1)	1	N/A	2025/07/29	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR) (1)	3	N/A	2025/07/31	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs (1)	3	N/A	2025/07/29	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, EPA, APHA or the Quebec Ministry of Environment.

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.



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: 1053870-04-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/07/31
Report #: R8586487
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C590047

Received: 2025/07/24, 16:22

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, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) Soils are reported on a dry weight basis unless otherwise specified.

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas 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:

Babandeep Kaur, Project Manager 2

Email: Babandeep.kaur@bureauveritas.com

Phone# (613) 274-0573

=====

This report has been generated and distributed using a secure automated process.

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RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ATJK94			ATJK95			ATJK95	
Sampling Date		2025/07/24 12:15			2025/07/24 14:15			2025/07/24 14:15	
COC Number		1053870-04-01			1053870-04-01			1053870-04-01	
	UNITS	BH25-04-04	RDL	QC Batch	BH25-02-04	RDL	QC Batch	BH25-02-04 Lab-Dup	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	5.2		9977043	6.1		9977043		
Inorganics									
Conductivity	mS/cm	0.97	0.002	9979785	1.3	0.002	9979785		
Moisture	%	19	1.0	9977593	28	1.0	9977593		
Available (CaCl ₂) pH	pH	7.76		9979883	7.60		9979883	7.61	9979883
WAD Cyanide (Free)	ug/g	<0.01	0.01	9979503	<0.01	0.01	9979503		
Miscellaneous Parameters									
Grain Size	%	FINE	N/A	9978395					
Sieve - #200 (<0.075mm)	%	82	1	9978395					
Sieve - #200 (>0.075mm)	%	18	1	9978395					
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Bureau Veritas ID		ATJK96			ATJK96		
Sampling Date		2025/07/24 14:30			2025/07/24 14:30		
COC Number		1053870-04-01			1053870-04-01		
	UNITS	BH25-02-05	RDL	QC Batch	BH25-02-05 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	8.4		9977043			
Inorganics							
Conductivity	mS/cm	1.8	0.002	9979785			
Moisture	%	32	1.0	9977593			
Available (CaCl ₂) pH	pH	7.83		9979883			
WAD Cyanide (Free)	ug/g	<0.01	0.01	9979503	<0.01	0.01	9979503
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ATJK94	ATJK95	ATJK96			ATJK96		
Sampling Date		2025/07/24 12:15	2025/07/24 14:15	2025/07/24 14:30			2025/07/24 14:30		
COC Number		1053870-04-01	1053870-04-01	1053870-04-01			1053870-04-01		
	UNITS	BH25-04-04	BH25-02-04	BH25-02-05	RDL	QC Batch	BH25-02-05 Lab-Dup	RDL	QC Batch

Inorganics									
Chromium (VI)	ug/g	<0.18	<0.18	<0.18	0.18	9979525	<0.18	0.18	9979525
Metals									
Hot Water Ext. Boron (B)	ug/g	0.40	0.10	0.097	0.050	9979696			
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.20	9979261			
Acid Extractable Arsenic (As)	ug/g	1.6	<1.0	1.1	1.0	9979261			
Acid Extractable Barium (Ba)	ug/g	230	290	250	0.50	9979261			
Acid Extractable Beryllium (Be)	ug/g	0.58	0.83	0.57	0.20	9979261			
Acid Extractable Boron (B)	ug/g	5.4	<5.0	6.2	5.0	9979261			
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	0.10	9979261			
Acid Extractable Chromium (Cr)	ug/g	46	68	36	1.0	9979261			
Acid Extractable Cobalt (Co)	ug/g	13	17	10	0.10	9979261			
Acid Extractable Copper (Cu)	ug/g	24	34	23	0.50	9979261			
Acid Extractable Lead (Pb)	ug/g	5.9	6.4	5.1	1.0	9979261			
Acid Extractable Molybdenum (Mo)	ug/g	1.5	<0.50	0.63	0.50	9979261			
Acid Extractable Nickel (Ni)	ug/g	26	39	22	0.50	9979261			
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	0.50	9979261			
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	0.20	9979261			
Acid Extractable Thallium (Tl)	ug/g	0.25	0.33	0.20	0.050	9979261			
Acid Extractable Uranium (U)	ug/g	0.67	0.59	1.2	0.050	9979261			
Acid Extractable Vanadium (V)	ug/g	58	79	52	5.0	9979261			
Acid Extractable Zinc (Zn)	ug/g	70	100	58	5.0	9979261			
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	0.050	9979261			
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									



SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		ATJK94	ATJK95		ATJK96		
Sampling Date		2025/07/24 12:15	2025/07/24 14:15		2025/07/24 14:30		
COC Number		1053870-04-01	1053870-04-01		1053870-04-01		
	UNITS	BH25-04-04	BH25-02-04	RDL	BH25-02-05	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	0.0071	<0.014	0.014	9977042
Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Acenaphthylene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Anthracene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Benzo(b,j)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Chrysene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Fluoranthene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Fluorene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Naphthalene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Phenanthrene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Pyrene	ug/g	<0.0050	<0.0050	0.0050	<0.010	0.010	9978405
Surrogate Recovery (%)							
D10-Anthracene	%	105	108		101		9978405
D14-Terphenyl (FS)	%	103	106		104		9978405
D8-Acenaphthylene	%	120	119		115		9978405
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATJK94	ATJK95	ATJK96		
Sampling Date		2025/07/24 12:15	2025/07/24 14:15	2025/07/24 14:30		
COC Number		1053870-04-01	1053870-04-01	1053870-04-01		
	UNITS	BH25-04-04	BH25-02-04	BH25-02-05	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	9977276
Volatile Organics						
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	9978227
Benzene	ug/g	<0.0060	<0.0060	<0.0060	0.0060	9978227
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	9978227
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	9978227
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	0.010	9978227
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Hexane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	9978227
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	9978227
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	9978227
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	9978227
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ATJK94	ATJK95	ATJK96		
Sampling Date		2025/07/24 12:15	2025/07/24 14:15	2025/07/24 14:30		
COC Number		1053870-04-01	1053870-04-01	1053870-04-01		
	UNITS	BH25-04-04	BH25-02-04	BH25-02-05	RDL	QC Batch
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	9978227
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	0.010	9978227
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	9978227
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	9978227
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	9978227
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	9978227
Total Xylenes	ug/g	<0.020	<0.020	<0.020	0.020	9978227
F1 (C6-C10)	ug/g	<10	<10	<10	10	9978227
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	9978227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	92	94	94		9978227
D10-o-Xylene	%	88	100	99		9978227
D4-1,2-Dichloroethane	%	119	118	119		9978227
D8-Toluene	%	93	93	93		9978227
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ATJK94	ATJK95	ATJK96		
Sampling Date		2025/07/24 12:15	2025/07/24 14:15	2025/07/24 14:30		
COC Number		1053870-04-01	1053870-04-01	1053870-04-01		
	UNITS	BH25-04-04	BH25-02-04	BH25-02-05	RDL	QC Batch
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<7.0	<7.0	<7.0	7.0	9978589
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	50	9978589
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	9978589
Reached Baseline at C50	ug/g	Yes	Yes	Yes		9978589
Surrogate Recovery (%)						
o-Terphenyl	%	102	103	102		9978589
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATJK94
Sample ID: BH25-04-04
Matrix: Soil

Collected: 2025/07/24
Shipped:
Received: 2025/07/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9977042	N/A	2025/07/29	Automated Statchk
Hot Water Extractable Boron	ICP	9979696	2025/07/30	2025/07/30	Jaswinder Kaur
1,3-Dichloropropene Sum	CALC	9977276	N/A	2025/07/30	Automated Statchk
Free (WAD) Cyanide	TECH	9979503	2025/07/30	2025/07/30	Prgya Panchal
Conductivity	AT	9979785	2025/07/30	2025/07/30	Gurpartee Kaur
Hexavalent Chromium in Soil by IC	IC/SPEC	9979525	2025/07/30	2025/07/30	Harpuneet Kaur
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978589	2025/07/29	2025/07/29	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	9979261	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977593	N/A	2025/07/26	Simranjit Kaur
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9978405	2025/07/28	2025/07/29	Mitesh Raj
pH CaCl2 EXTRACT	AT	9979883	2025/07/30	2025/07/30	Gurpartee Kaur
Sieve, 75um	SIEV	9978395	N/A	2025/07/29	Simranjit Kaur
Sodium Adsorption Ratio (SAR)	CALC/MET	9977043	N/A	2025/07/31	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9978227	N/A	2025/07/29	Blair Gannon

Bureau Veritas ID: ATJK95
Sample ID: BH25-02-04
Matrix: Soil

Collected: 2025/07/24
Shipped:
Received: 2025/07/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9977042	N/A	2025/07/29	Automated Statchk
Hot Water Extractable Boron	ICP	9979696	2025/07/30	2025/07/30	Jaswinder Kaur
1,3-Dichloropropene Sum	CALC	9977276	N/A	2025/07/30	Automated Statchk
Free (WAD) Cyanide	TECH	9979503	2025/07/30	2025/07/30	Prgya Panchal
Conductivity	AT	9979785	2025/07/30	2025/07/30	Gurpartee Kaur
Hexavalent Chromium in Soil by IC	IC/SPEC	9979525	2025/07/30	2025/07/30	Harpuneet Kaur
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978589	2025/07/29	2025/07/29	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	9979261	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977593	N/A	2025/07/26	Simranjit Kaur
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9978405	2025/07/28	2025/07/29	Mitesh Raj
pH CaCl2 EXTRACT	AT	9979883	2025/07/30	2025/07/30	Gurpartee Kaur
Sodium Adsorption Ratio (SAR)	CALC/MET	9977043	N/A	2025/07/31	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9978227	N/A	2025/07/29	Blair Gannon

Bureau Veritas ID: ATJK95 Dup
Sample ID: BH25-02-04
Matrix: Soil

Collected: 2025/07/24
Shipped:
Received: 2025/07/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	9979883	2025/07/30	2025/07/30	Gurpartee Kaur



Bureau Veritas Job #: C590047

Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.

Client Project #: 705228

Your P.O. #: 49644

Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATJK96
Sample ID: BH25-02-05
Matrix: Soil

Collected: 2025/07/24
Shipped:
Received: 2025/07/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9977042	N/A	2025/07/29	Automated Statchk
Hot Water Extractable Boron	ICP	9979696	2025/07/30	2025/07/30	Jaswinder Kaur
1,3-Dichloropropene Sum	CALC	9977276	N/A	2025/07/30	Automated Statchk
Free (WAD) Cyanide	TECH	9979503	2025/07/30	2025/07/30	Prgya Panchal
Conductivity	AT	9979785	2025/07/30	2025/07/30	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9979525	2025/07/30	2025/07/30	Harpuneet Kaur
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9978589	2025/07/29	2025/07/29	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	9979261	2025/07/29	2025/07/29	Daniel Teclu
Moisture	BAL	9977593	N/A	2025/07/26	Simranjit KAUR
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9978405	2025/07/28	2025/07/29	Mitesh Raj
pH CaCl2 EXTRACT	AT	9979883	2025/07/30	2025/07/30	Gurparteek KAUR
Sodium Adsorption Ratio (SAR)	CALC/MET	9977043	N/A	2025/07/31	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9978227	N/A	2025/07/29	Blair Gannon

Bureau Veritas ID: ATJK96 Dup
Sample ID: BH25-02-05
Matrix: Soil

Collected: 2025/07/24
Shipped:
Received: 2025/07/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	9979503	2025/07/30	2025/07/30	Prgya Panchal
Hexavalent Chromium in Soil by IC	IC/SPEC	9979525	2025/07/30	2025/07/30	Harpuneet Kaur



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	11.0°C
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Sample ATJK96 [BH25-02-05] : PAH ANALYSIS: Detection limits were adjusted for high moisture content.

Results relate only to the items tested.



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	9977593	SIA	RPD	Moisture	2025/07/26	4.6		%	20
	9978227	BG1	Matrix Spike	4-Bromofluorobenzene	2025/07/29		101	%	60 - 140
				D10-o-Xylene	2025/07/29		100	%	60 - 130
				D4-1,2-Dichloroethane	2025/07/29		113	%	60 - 140
				D8-Toluene	2025/07/29		105	%	60 - 140
				Acetone (2-Propanone)	2025/07/29		105	%	60 - 140
				Benzene	2025/07/29		98	%	60 - 140
				Bromodichloromethane	2025/07/29		102	%	60 - 140
				Bromoform	2025/07/29		102	%	60 - 140
				Bromomethane	2025/07/29		79	%	60 - 140
				Carbon Tetrachloride	2025/07/29		108	%	60 - 140
				Chlorobenzene	2025/07/29		88	%	60 - 140
				Chloroform	2025/07/29		103	%	60 - 140
				Dibromochloromethane	2025/07/29		105	%	60 - 140
				1,2-Dichlorobenzene	2025/07/29		96	%	60 - 140
				1,3-Dichlorobenzene	2025/07/29		95	%	60 - 140
				1,4-Dichlorobenzene	2025/07/29		96	%	60 - 140
				Dichlorodifluoromethane (FREON 12)	2025/07/29		92	%	60 - 140
				1,1-Dichloroethane	2025/07/29		102	%	60 - 140
				1,2-Dichloroethane	2025/07/29		108	%	60 - 140
				1,1-Dichloroethylene	2025/07/29		102	%	60 - 140
				cis-1,2-Dichloroethylene	2025/07/29		102	%	60 - 140
				trans-1,2-Dichloroethylene	2025/07/29		105	%	60 - 140
				1,2-Dichloropropane	2025/07/29		100	%	60 - 140
				cis-1,3-Dichloropropene	2025/07/29		86	%	60 - 140
				trans-1,3-Dichloropropene	2025/07/29		106	%	60 - 140
				Ethylbenzene	2025/07/29		88	%	60 - 140
				Ethylene Dibromide	2025/07/29		100	%	60 - 140
				Hexane	2025/07/29		110	%	60 - 140
				Methylene Chloride(Dichloromethane)	2025/07/29		111	%	60 - 140
				Methyl Ethyl Ketone (2-Butanone)	2025/07/29		101	%	60 - 140
				Methyl Isobutyl Ketone	2025/07/29		96	%	60 - 140
				Methyl t-butyl ether (MTBE)	2025/07/29		90	%	60 - 140
				Styrene	2025/07/29		90	%	60 - 140
				1,1,1,2-Tetrachloroethane	2025/07/29		109	%	60 - 140
				1,1,2,2-Tetrachloroethane	2025/07/29		98	%	60 - 140
				Tetrachloroethylene	2025/07/29		97	%	60 - 140
				Toluene	2025/07/29		96	%	60 - 140
				1,1,1-Trichloroethane	2025/07/29		100	%	60 - 140
				1,1,2-Trichloroethane	2025/07/29		109	%	60 - 140
				Trichloroethylene	2025/07/29		96	%	60 - 140
				Trichlorofluoromethane (FREON 11)	2025/07/29		124	%	60 - 140
				Vinyl Chloride	2025/07/29		83	%	60 - 140
				p+m-Xylene	2025/07/29		87	%	60 - 140
				o-Xylene	2025/07/29		94	%	60 - 140
				F1 (C6-C10)	2025/07/29		93	%	60 - 140
	9978227	BG1	Spiked Blank	4-Bromofluorobenzene	2025/07/29		100	%	60 - 140
				D10-o-Xylene	2025/07/29		100	%	60 - 130
				D4-1,2-Dichloroethane	2025/07/29		111	%	60 - 140
				D8-Toluene	2025/07/29		106	%	60 - 140
				Acetone (2-Propanone)	2025/07/29		110	%	60 - 140
				Benzene	2025/07/29		103	%	60 - 130
				Bromodichloromethane	2025/07/29		104	%	60 - 130



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Bromoform	2025/07/29		103	%	60 - 130
				Bromomethane	2025/07/29		88	%	60 - 140
				Carbon Tetrachloride	2025/07/29		114	%	60 - 130
				Chlorobenzene	2025/07/29		91	%	60 - 130
				Chloroform	2025/07/29		107	%	60 - 130
				Dibromochloromethane	2025/07/29		107	%	60 - 130
				1,2-Dichlorobenzene	2025/07/29		99	%	60 - 130
				1,3-Dichlorobenzene	2025/07/29		98	%	60 - 130
				1,4-Dichlorobenzene	2025/07/29		99	%	60 - 130
				Dichlorodifluoromethane (FREON 12)	2025/07/29		127	%	60 - 140
				1,1-Dichloroethane	2025/07/29		105	%	60 - 130
				1,2-Dichloroethane	2025/07/29		111	%	60 - 130
				1,1-Dichloroethylene	2025/07/29		107	%	60 - 130
				cis-1,2-Dichloroethylene	2025/07/29		107	%	60 - 130
				trans-1,2-Dichloroethylene	2025/07/29		111	%	60 - 130
				1,2-Dichloropropane	2025/07/29		101	%	60 - 130
				cis-1,3-Dichloropropene	2025/07/29		93	%	60 - 130
				trans-1,3-Dichloropropene	2025/07/29		114	%	60 - 130
				Ethylbenzene	2025/07/29		91	%	60 - 130
				Ethylene Dibromide	2025/07/29		102	%	60 - 130
				Hexane	2025/07/29		118	%	60 - 130
				Methylene Chloride(Dichloromethane)	2025/07/29		116	%	60 - 130
				Methyl Ethyl Ketone (2-Butanone)	2025/07/29		104	%	60 - 140
				Methyl Isobutyl Ketone	2025/07/29		96	%	60 - 130
				Methyl t-butyl ether (MTBE)	2025/07/29		97	%	60 - 130
				Styrene	2025/07/29		94	%	60 - 130
				1,1,1,2-Tetrachloroethane	2025/07/29		112	%	60 - 130
				1,1,2,2-Tetrachloroethane	2025/07/29		97	%	60 - 130
				Tetrachloroethylene	2025/07/29		101	%	60 - 130
				Toluene	2025/07/29		100	%	60 - 130
				1,1,1-Trichloroethane	2025/07/29		106	%	60 - 130
				1,1,2-Trichloroethane	2025/07/29		108	%	60 - 130
				Trichloroethylene	2025/07/29		100	%	60 - 130
				Trichlorofluoromethane (FREON 11)	2025/07/29		87	%	60 - 130
				Vinyl Chloride	2025/07/29		101	%	60 - 130
				p+m-Xylene	2025/07/29		90	%	60 - 130
				o-Xylene	2025/07/29		99	%	60 - 130
				F1 (C6-C10)	2025/07/29		89	%	80 - 120
9978227	BG1	Method Blank		4-Bromofluorobenzene	2025/07/29		94	%	60 - 140
				D10-o-Xylene	2025/07/29		85	%	60 - 130
				D4-1,2-Dichloroethane	2025/07/29		116	%	60 - 140
				D8-Toluene	2025/07/29		92	%	60 - 140
				Acetone (2-Propanone)	2025/07/29	<0.49		ug/g	
				Benzene	2025/07/29	<0.0060		ug/g	
				Bromodichloromethane	2025/07/29	<0.040		ug/g	
				Bromoform	2025/07/29	<0.040		ug/g	
				Bromomethane	2025/07/29	<0.040		ug/g	
				Carbon Tetrachloride	2025/07/29	<0.040		ug/g	
				Chlorobenzene	2025/07/29	<0.040		ug/g	
				Chloroform	2025/07/29	<0.040		ug/g	
				Dibromochloromethane	2025/07/29	<0.040		ug/g	
				1,2-Dichlorobenzene	2025/07/29	<0.040		ug/g	
				1,3-Dichlorobenzene	2025/07/29	<0.040		ug/g	



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				1,4-Dichlorobenzene	2025/07/29	<0.040		ug/g	
				Dichlorodifluoromethane (FREON 12)	2025/07/29	<0.040		ug/g	
				1,1-Dichloroethane	2025/07/29	<0.040		ug/g	
				1,2-Dichloroethane	2025/07/29	<0.049		ug/g	
				1,1-Dichloroethylene	2025/07/29	<0.040		ug/g	
				cis-1,2-Dichloroethylene	2025/07/29	<0.040		ug/g	
				trans-1,2-Dichloroethylene	2025/07/29	<0.040		ug/g	
				1,2-Dichloropropane	2025/07/29	<0.040		ug/g	
				cis-1,3-Dichloropropene	2025/07/29	<0.030		ug/g	
				trans-1,3-Dichloropropene	2025/07/29	<0.040		ug/g	
				Ethylbenzene	2025/07/29	<0.010		ug/g	
				Ethylene Dibromide	2025/07/29	<0.040		ug/g	
				Hexane	2025/07/29	<0.040		ug/g	
				Methylene Chloride(Dichloromethane)	2025/07/29	<0.049		ug/g	
				Methyl Ethyl Ketone (2-Butanone)	2025/07/29	<0.40		ug/g	
				Methyl Isobutyl Ketone	2025/07/29	<0.40		ug/g	
				Methyl t-butyl ether (MTBE)	2025/07/29	<0.040		ug/g	
				Styrene	2025/07/29	<0.040		ug/g	
				1,1,1,2-Tetrachloroethane	2025/07/29	<0.040		ug/g	
				1,1,2,2-Tetrachloroethane	2025/07/29	<0.040		ug/g	
				Tetrachloroethylene	2025/07/29	<0.040		ug/g	
				Toluene	2025/07/29	<0.020		ug/g	
				1,1,1-Trichloroethane	2025/07/29	<0.040		ug/g	
				1,1,2-Trichloroethane	2025/07/29	<0.040		ug/g	
				Trichloroethylene	2025/07/29	<0.010		ug/g	
				Trichlorofluoromethane (FREON 11)	2025/07/29	<0.040		ug/g	
				Vinyl Chloride	2025/07/29	<0.019		ug/g	
				p+m-Xylene	2025/07/29	<0.020		ug/g	
				o-Xylene	2025/07/29	<0.020		ug/g	
				Total Xylenes	2025/07/29	<0.020		ug/g	
				F1 (C6-C10)	2025/07/29	<10		ug/g	
				F1 (C6-C10) - BTEX	2025/07/29	<10		ug/g	
9978227	BG1	RPD		Acetone (2-Propanone)	2025/07/29	NC		%	50
				Benzene	2025/07/29	NC		%	50
				Bromodichloromethane	2025/07/29	NC		%	50
				Bromoform	2025/07/29	NC		%	50
				Bromomethane	2025/07/29	NC		%	50
				Carbon Tetrachloride	2025/07/29	NC		%	50
				Chlorobenzene	2025/07/29	NC		%	50
				Chloroform	2025/07/29	NC		%	50
				Dibromochloromethane	2025/07/29	NC		%	50
				1,2-Dichlorobenzene	2025/07/29	NC		%	50
				1,3-Dichlorobenzene	2025/07/29	NC		%	50
				1,4-Dichlorobenzene	2025/07/29	NC		%	50
				Dichlorodifluoromethane (FREON 12)	2025/07/29	NC		%	50
				1,1-Dichloroethane	2025/07/29	NC		%	50
				1,2-Dichloroethane	2025/07/29	NC		%	50
				1,1-Dichloroethylene	2025/07/29	NC		%	50
				cis-1,2-Dichloroethylene	2025/07/29	NC		%	50
				trans-1,2-Dichloroethylene	2025/07/29	NC		%	50
				1,2-Dichloropropane	2025/07/29	NC		%	50
				cis-1,3-Dichloropropene	2025/07/29	NC		%	50
				trans-1,3-Dichloropropene	2025/07/29	NC		%	50



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Ethylbenzene	2025/07/29	NC		%	50
				Ethylene Dibromide	2025/07/29	NC		%	50
				Hexane	2025/07/29	NC		%	50
				Methylene Chloride(Dichloromethane)	2025/07/29	NC		%	50
				Methyl Ethyl Ketone (2-Butanone)	2025/07/29	NC		%	50
				Methyl Isobutyl Ketone	2025/07/29	NC		%	50
				Methyl t-butyl ether (MTBE)	2025/07/29	NC		%	50
				Styrene	2025/07/29	NC		%	50
				1,1,1,2-Tetrachloroethane	2025/07/29	NC		%	50
				1,1,2,2-Tetrachloroethane	2025/07/29	NC		%	50
				Tetrachloroethylene	2025/07/29	NC		%	50
				Toluene	2025/07/29	NC		%	50
				1,1,1-Trichloroethane	2025/07/29	NC		%	50
				1,1,2-Trichloroethane	2025/07/29	NC		%	50
				Trichloroethylene	2025/07/29	NC		%	50
				Trichlorofluoromethane (FREON 11)	2025/07/29	NC		%	50
				Vinyl Chloride	2025/07/29	NC		%	50
				p+m-Xylene	2025/07/29	NC		%	50
				o-Xylene	2025/07/29	NC		%	50
				Total Xylenes	2025/07/29	NC		%	50
				F1 (C6-C10)	2025/07/29	NC		%	30
				F1 (C6-C10) - BTEX	2025/07/29	NC		%	30
9978395	SIA		QC Standard	Sieve - #200 (<0.075mm)	2025/07/29		55	%	53 - 58
				Sieve - #200 (>0.075mm)	2025/07/29		45	%	42 - 47
9978395	SIA		RPD	Sieve - #200 (<0.075mm)	2025/07/29	6.7		%	20
				Sieve - #200 (>0.075mm)	2025/07/29	3.6		%	20
9978405	RAJ		Matrix Spike	D10-Anthracene	2025/07/28		106	%	50 - 130
				D14-Terphenyl (FS)	2025/07/28		104	%	50 - 130
				D8-Acenaphthylene	2025/07/28		119	%	50 - 130
				Acenaphthene	2025/07/28		93	%	50 - 130
				Acenaphthylene	2025/07/28		109	%	50 - 130
				Anthracene	2025/07/28		109	%	50 - 130
				Benzo(a)anthracene	2025/07/28		95	%	50 - 130
				Benzo(a)pyrene	2025/07/28		89	%	50 - 130
				Benzo(b,j)fluoranthene	2025/07/28		88	%	50 - 130
				Benzo(g,h,i)perylene	2025/07/28		86	%	50 - 130
				Benzo(k)fluoranthene	2025/07/28		88	%	50 - 130
				Chrysene	2025/07/28		93	%	50 - 130
				Dibenzo(a,h)anthracene	2025/07/28		87	%	50 - 130
				Fluoranthene	2025/07/28		96	%	50 - 130
				Fluorene	2025/07/28		104	%	50 - 130
				Indeno(1,2,3-cd)pyrene	2025/07/28		93	%	50 - 130
				1-Methylnaphthalene	2025/07/28		88	%	50 - 130
				2-Methylnaphthalene	2025/07/28		91	%	50 - 130
				Naphthalene	2025/07/28		81	%	50 - 130
				Phenanthrene	2025/07/28		92	%	50 - 130
				Pyrene	2025/07/28		101	%	50 - 130
9978405	RAJ		Spiked Blank	D10-Anthracene	2025/07/28		108	%	50 - 130
				D14-Terphenyl (FS)	2025/07/28		105	%	50 - 130
				D8-Acenaphthylene	2025/07/28		111	%	50 - 130
				Acenaphthene	2025/07/28		96	%	50 - 130
				Acenaphthylene	2025/07/28		103	%	50 - 130
				Anthracene	2025/07/28		110	%	50 - 130



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9978405	RAJ	Method Blank		Benzo(a)anthracene	2025/07/28		98	%	50 - 130
				Benzo(a)pyrene	2025/07/28		91	%	50 - 130
				Benzo(b/j)fluoranthene	2025/07/28		86	%	50 - 130
				Benzo(g,h,i)perylene	2025/07/28		86	%	50 - 130
				Benzo(k)fluoranthene	2025/07/28		99	%	50 - 130
				Chrysene	2025/07/28		96	%	50 - 130
				Dibenzo(a,h)anthracene	2025/07/28		78	%	50 - 130
				Fluoranthene	2025/07/28		98	%	50 - 130
				Fluorene	2025/07/28		100	%	50 - 130
				Indeno(1,2,3-cd)pyrene	2025/07/28		89	%	50 - 130
				1-Methylnaphthalene	2025/07/28		86	%	50 - 130
				2-Methylnaphthalene	2025/07/28		90	%	50 - 130
				Naphthalene	2025/07/28		87	%	50 - 130
				Phenanthrene	2025/07/28		95	%	50 - 130
				Pyrene	2025/07/28		103	%	50 - 130
				D10-Anthracene	2025/07/28		104	%	50 - 130
				D14-Terphenyl (FS)	2025/07/28		100	%	50 - 130
				D8-Acenaphthylene	2025/07/28		118	%	50 - 130
				Acenaphthene	2025/07/28	<0.0050		ug/g	
				Acenaphthylene	2025/07/28	<0.0050		ug/g	
				Anthracene	2025/07/28	<0.0050		ug/g	
				Benzo(a)anthracene	2025/07/28	<0.0050		ug/g	
				Benzo(a)pyrene	2025/07/28	<0.0050		ug/g	
				Benzo(b/j)fluoranthene	2025/07/28	<0.0050		ug/g	
				Benzo(g,h,i)perylene	2025/07/28	<0.0050		ug/g	
				Benzo(k)fluoranthene	2025/07/28	<0.0050		ug/g	
				Chrysene	2025/07/28	<0.0050		ug/g	
				Dibenzo(a,h)anthracene	2025/07/28	<0.0050		ug/g	
				Fluoranthene	2025/07/28	<0.0050		ug/g	
				Fluorene	2025/07/28	<0.0050		ug/g	
				Indeno(1,2,3-cd)pyrene	2025/07/28	<0.0050		ug/g	
				1-Methylnaphthalene	2025/07/28	<0.0050		ug/g	
				2-Methylnaphthalene	2025/07/28	<0.0050		ug/g	
				Naphthalene	2025/07/28	<0.0050		ug/g	
				Phenanthrene	2025/07/28	<0.0050		ug/g	
				Pyrene	2025/07/28	<0.0050		ug/g	
9978405	RAJ	RPD		Acenaphthene	2025/07/28	NC		%	40
				Acenaphthylene	2025/07/28	NC		%	40
				Anthracene	2025/07/28	NC		%	40
				Benzo(a)anthracene	2025/07/28	NC		%	40
				Benzo(a)pyrene	2025/07/28	NC		%	40
				Benzo(b/j)fluoranthene	2025/07/28	NC		%	40
				Benzo(g,h,i)perylene	2025/07/28	NC		%	40
				Benzo(k)fluoranthene	2025/07/28	NC		%	40
				Chrysene	2025/07/28	NC		%	40
				Dibenzo(a,h)anthracene	2025/07/28	NC		%	40
				Fluoranthene	2025/07/28	NC		%	40
				Fluorene	2025/07/28	NC		%	40
				Indeno(1,2,3-cd)pyrene	2025/07/28	NC		%	40
				1-Methylnaphthalene	2025/07/28	NC		%	40
				2-Methylnaphthalene	2025/07/28	NC		%	40
				Naphthalene	2025/07/28	NC		%	40
				Phenanthrene	2025/07/28	NC		%	40



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9978589	SN1	Matrix Spike	Pyrene	2025/07/28	NC		%	40
			o-Terphenyl	2025/07/29		100	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/29		102	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/07/29		107	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/07/29		107	%	60 - 140
9978589	SN1	Spiked Blank	o-Terphenyl	2025/07/29		98	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/29		100	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2025/07/29		105	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2025/07/29		105	%	80 - 120
9978589	SN1	Method Blank	o-Terphenyl	2025/07/29		101	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/29	<7.0		ug/g	
			F3 (C16-C34 Hydrocarbons)	2025/07/29	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2025/07/29	<50		ug/g	
9978589	SN1	RPD	F2 (C10-C16 Hydrocarbons)	2025/07/29	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2025/07/29	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2025/07/29	NC		%	30
9979261	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2025/07/29		97	%	75 - 125
			Acid Extractable Arsenic (As)	2025/07/29		104	%	75 - 125
			Acid Extractable Barium (Ba)	2025/07/29		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2025/07/29		102	%	75 - 125
			Acid Extractable Boron (B)	2025/07/29		95	%	75 - 125
			Acid Extractable Cadmium (Cd)	2025/07/29		103	%	75 - 125
			Acid Extractable Chromium (Cr)	2025/07/29		107	%	75 - 125
			Acid Extractable Cobalt (Co)	2025/07/29		105	%	75 - 125
			Acid Extractable Copper (Cu)	2025/07/29		99	%	75 - 125
			Acid Extractable Lead (Pb)	2025/07/29		102	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2025/07/29		97	%	75 - 125
			Acid Extractable Nickel (Ni)	2025/07/29		108	%	75 - 125
			Acid Extractable Selenium (Se)	2025/07/29		104	%	75 - 125
			Acid Extractable Silver (Ag)	2025/07/29		101	%	75 - 125
			Acid Extractable Thallium (Tl)	2025/07/29		101	%	75 - 125
			Acid Extractable Uranium (U)	2025/07/29		107	%	75 - 125
			Acid Extractable Vanadium (V)	2025/07/29		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2025/07/29		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2025/07/29		99	%	75 - 125
	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2025/07/29		99	%	80 - 120
			Acid Extractable Arsenic (As)	2025/07/29		96	%	80 - 120
			Acid Extractable Barium (Ba)	2025/07/29		95	%	80 - 120
			Acid Extractable Beryllium (Be)	2025/07/29		100	%	80 - 120
			Acid Extractable Boron (B)	2025/07/29		97	%	80 - 120
			Acid Extractable Cadmium (Cd)	2025/07/29		98	%	80 - 120
			Acid Extractable Chromium (Cr)	2025/07/29		97	%	80 - 120
			Acid Extractable Cobalt (Co)	2025/07/29		96	%	80 - 120
			Acid Extractable Copper (Cu)	2025/07/29		98	%	80 - 120
			Acid Extractable Lead (Pb)	2025/07/29		100	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2025/07/29		95	%	80 - 120
			Acid Extractable Nickel (Ni)	2025/07/29		101	%	80 - 120
			Acid Extractable Selenium (Se)	2025/07/29		101	%	80 - 120
			Acid Extractable Silver (Ag)	2025/07/29		98	%	80 - 120
			Acid Extractable Thallium (Tl)	2025/07/29		99	%	80 - 120
			Acid Extractable Uranium (U)	2025/07/29		100	%	80 - 120
			Acid Extractable Vanadium (V)	2025/07/29		98	%	80 - 120
			Acid Extractable Zinc (Zn)	2025/07/29		101	%	80 - 120



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9979261	DT1	Method Blank	Acid Extractable Mercury (Hg)	2025/07/29		98	%	80 - 120
			Acid Extractable Antimony (Sb)	2025/07/29	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2025/07/29	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2025/07/29	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2025/07/29	<0.20		ug/g	
			Acid Extractable Boron (B)	2025/07/29	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2025/07/29	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2025/07/29	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2025/07/29	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2025/07/29	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2025/07/29	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2025/07/29	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2025/07/29	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2025/07/29	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2025/07/29	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2025/07/29	<0.050		ug/g	
			Acid Extractable Uranium (U)	2025/07/29	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2025/07/29	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2025/07/29	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2025/07/29	<0.050		ug/g	
9979261	DT1	RPD	Acid Extractable Antimony (Sb)	2025/07/29	NC		%	30
			Acid Extractable Arsenic (As)	2025/07/29	1.6		%	30
			Acid Extractable Barium (Ba)	2025/07/29	3.9		%	30
			Acid Extractable Beryllium (Be)	2025/07/29	7.7		%	30
			Acid Extractable Boron (B)	2025/07/29	6.6		%	30
			Acid Extractable Cadmium (Cd)	2025/07/29	NC		%	30
			Acid Extractable Chromium (Cr)	2025/07/29	3.1		%	30
			Acid Extractable Cobalt (Co)	2025/07/29	0.64		%	30
			Acid Extractable Copper (Cu)	2025/07/29	0.74		%	30
			Acid Extractable Lead (Pb)	2025/07/29	1.9		%	30
			Acid Extractable Molybdenum (Mo)	2025/07/29	NC		%	30
			Acid Extractable Nickel (Ni)	2025/07/29	1.4		%	30
			Acid Extractable Selenium (Se)	2025/07/29	NC		%	30
			Acid Extractable Silver (Ag)	2025/07/29	NC		%	30
			Acid Extractable Thallium (Tl)	2025/07/29	8.8		%	30
			Acid Extractable Uranium (U)	2025/07/29	8.9		%	30
			Acid Extractable Vanadium (V)	2025/07/29	2.9		%	30
			Acid Extractable Zinc (Zn)	2025/07/29	3.9		%	30
			Acid Extractable Mercury (Hg)	2025/07/29	NC		%	30
9979503	GYA	Matrix Spike [ATJK96-01]	WAD Cyanide (Free)	2025/07/30		89	%	75 - 125
9979503	GYA	Spiked Blank	WAD Cyanide (Free)	2025/07/30		106	%	80 - 120
9979503	GYA	Method Blank	WAD Cyanide (Free)	2025/07/30	<0.01		ug/g	
9979503	GYA	RPD [ATJK96-01]	WAD Cyanide (Free)	2025/07/30	NC		%	35
9979525	HK1	Matrix Spike [ATJK96-01]	Chromium (VI)	2025/07/30		81	%	70 - 130
9979525	HK1	Spiked Blank	Chromium (VI)	2025/07/30		92	%	80 - 120
9979525	HK1	Method Blank	Chromium (VI)	2025/07/30	<0.18		ug/g	
9979525	HK1	RPD [ATJK96-01]	Chromium (VI)	2025/07/30	NC		%	35
9979696	JWK	Matrix Spike	Hot Water Ext. Boron (B)	2025/07/30		111	%	75 - 125
9979696	JWK	Spiked Blank	Hot Water Ext. Boron (B)	2025/07/30		103	%	75 - 125
9979696	JWK	Method Blank	Hot Water Ext. Boron (B)	2025/07/30	<0.050		ug/g	
9979696	JWK	RPD	Hot Water Ext. Boron (B)	2025/07/30	1.4		%	40
9979785	GTK	Spiked Blank	Conductivity	2025/07/30		102	%	90 - 110
9979785	GTK	Method Blank	Conductivity	2025/07/30	<0.002		mS/cm	



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9979785	GTK	RPD	Conductivity	2025/07/30	0.36		%	10
9979883	GTK	Spiked Blank	Available (CaCl ₂) pH	2025/07/30		100	%	97 - 103
9979883	GTK	RPD [ATJK95-01]	Available (CaCl ₂) pH	2025/07/30	0.034		%	N/A

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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 $\leq 2 \times \text{RDL}$).



Bureau Veritas Job #: C590047
Report Date: 2025/07/31

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

C590047
2025/07/24 16:22

Bureau Veritas
36 Antares Dr Unit 100, Nepean, Ontario Canada K2E 7W5 Tel:(613) 274-0573 Toll-free:800-563-6266 Fax:(613) 274-0574 www.bvna.com

CHAIN OF CUSTODY RECORD

Page of

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #21644 ATKINSRÉALIS CANADA INC.		Company Name: #19080 AtkinsRéalis		Quotation #: C31302		Bureau Veritas Job #:	
Attention: Accounts Payable		Attention: Sean Gariano		P.O. #: 49644		Bottle Order #:	
Address: 455 René-Lévesque Blvd. West		Address: 1145 Hunt Club Road Suite 120		Project: 705228		Barcode	
Montreal QC H2Z 1Z3		Nepean ON K1V 0Y3		Project Name:		COC #:	
Tel: (613) 226-2456		Tel: (613) 226-2456		Site #: C10231		Barcode	
Email: payables@atkinsrealis.com		Email: sean.gariano@atkinsrealis.com, ON_LabData@atkinsrealis.com		Sampled By:		Barcode	
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required:		Please provide advance notice for rush projects	
Regulation 153 (2011)		Other Regulations		Special Instructions		Regular (Standard) TAT:	
☐ Table 1 ☐ Res/Park ☒ Medium/Fine		☐ CCME ☐ Sanitary Sewer Bylaw				(will be applied if Rush TAT is not specified)	
☐ Table 2 ☒ Ind/Comm ☐ Coarse		☐ Reg 558 ☐ Storm Sewer Bylaw				Standard TAT = 5-7 Working days for most tests.	
☐ Table 3 ☐ Agri/Other ☐ For RSC		☐ MISA Municipality				Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
☒ Table 4		☐ PWDO ☐ Reg 406 Table				Job Specific Rush TAT (if applies to entire submission)	
		☐ Other				Date Required: Time Required:	
Include Criteria on Certificate of Analysis (Y/N)?						Rush Confirmation Number: (call lab for #)	
Sample Etchmark Label		Sample (Location) Identification		Date Sampled		Time Sampled	
1		BH25-04-04		12:15		501	
2		BH25-04-02-04		14:15			
3		BH25-02-05		14:30			
4							
5							
6							
7							
8							
9							
10							
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)		Time		RECEIVED BY: (Signature/Print)	
Sean Gariano		25/07/24		16:15		Accomplish Sampling	
						Date: (YY/MM/DD)	
						Time	
						# jars used and not submitted	
						Laboratory Use Only	
						Time Sensitive	
						Temperature (°C) on Receipt	
						Custody Seal Present	
						Intact	
						Yes	
						No	
						White: Bureau Veritas Yellow: Client	
						SAMPLES MUST BE KEPT COOL (+10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS	
						* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S 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.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COO-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.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.	

Appendix D

Certificates of Analysis (Ground Water)



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053871-01-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/08/06
Report #: R8588941
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C591884

Received: 2025/07/29, 14:37

Sample Matrix: Water
Samples Received: 7

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum (1)	7	N/A	2025/08/05	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	7	N/A	2025/08/06		EPA 8260C m
Chloride by Automated Colourimetry (1)	7	N/A	2025/08/05	CAM SOP-00463	SM 24 4500-Cl E m
Chromium (VI) in Water (1)	7	N/A	2025/08/02	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide (1)	6	N/A	2025/07/31	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide (1)	1	N/A	2025/08/01	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	7	2025/07/31	2025/07/31	CAM SOP-00316	CCME PHC-CWS m
Mercury (1)	6	2025/08/01	2025/08/01	CAM SOP-00453	EPA 7470A m
Mercury (1)	1	2025/08/05	2025/08/06	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS (1)	6	N/A	2025/07/31	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS (1)	1	N/A	2025/08/01	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	7	2025/07/31	2025/07/31	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs (1)	7	N/A	2025/08/05	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, EPA, APHA or the Quebec Ministry of Environment.

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.



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053871-01-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/08/06
Report #: R8588941
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C591884

Received: 2025/07/29, 14:37

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, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas 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:

Babandeep Kaur, Project Manager 2

Email: Babandeep.kaur@bureauveritas.com

Phone# (613) 274-0573

=====

This report has been generated and distributed using a secure automated process.

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ATNB24		ATNB25			ATNB26		
Sampling Date		2025/07/29 10:20		2025/07/29 10:20			2025/07/29 11:10		
COC Number		C#1053871-01-01		C#1053871-01-01			C#1053871-01-01		
	UNITS	MW25-01	QC Batch	MW25-011	RDL	QC Batch	MW25-02	RDL	QC Batch
Inorganics									
WAD Cyanide (Free)	ug/L	<1	9980415	<1	1	9980416	<1	1	9980415
Dissolved Chloride (Cl-)	mg/L	880	9980897	880	10	9980897	2000	20	9980897
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

Bureau Veritas ID		ATNB27			ATNB27			ATNB28		
Sampling Date		2025/07/29 11:25			2025/07/29 11:25			2025/07/29 12:30		
COC Number		C#1053871-01-01			C#1053871-01-01			C#1053871-01-01		
	UNITS	MW25-03	RDL	QC Batch	MW25-03 Lab-Dup	RDL	QC Batch	MW25-04	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	<1	1	9980416	<1	1	9980416	<1	1	9980416
Dissolved Chloride (Cl-)	mg/L	170	1.0	9980897				920	10	9980592
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										

Bureau Veritas ID		ATNB29			ATNB30		
Sampling Date		2025/07/29 12:00			2025/07/29 13:20		
COC Number		C#1053871-01-01			C#1053871-01-01		
	UNITS	MW25-05	RDL	QC Batch	MW25-06	RDL	QC Batch
Inorganics							
WAD Cyanide (Free)	ug/L	<1	1	9980415	<1	1	9980415
Dissolved Chloride (Cl-)	mg/L	350	3.0	9980897	650	10	9980592
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ATNB24	ATNB25			ATNB26		
Sampling Date		2025/07/29 10:20	2025/07/29 10:20			2025/07/29 11:10		
COC Number		C#1053871-01-01	C#1053871-01-01			C#1053871-01-01		
	UNITS	MW25-01	MW25-011	RDL	QC Batch	MW25-02	RDL	QC Batch
Metals								
Chromium (VI)	ug/L	<0.50	<0.50	0.50	9981671	<0.50	0.50	9981671
Mercury (Hg)	ug/L	<0.10	<0.10	0.10	9981327	<0.10	0.10	9982651
Dissolved Antimony (Sb)	ug/L	5.7	5.3	0.50	9980494	<0.50	0.50	9980494
Dissolved Arsenic (As)	ug/L	12	12	1.0	9980494	<1.0	1.0	9980494
Dissolved Barium (Ba)	ug/L	160	160	2.0	9980494	160	2.0	9980494
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	9980494	<0.40	0.40	9980494
Dissolved Boron (B)	ug/L	25	25	10	9980494	40	10	9980494
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	9980494	<0.090	0.090	9980494
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	9980494	<5.0	5.0	9980494
Dissolved Cobalt (Co)	ug/L	12	12	0.50	9980494	0.73	0.50	9980494
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	9980494	<0.90	0.90	9980494
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	9980494	<0.50	0.50	9980494
Dissolved Molybdenum (Mo)	ug/L	9.0	8.9	0.50	9980494	3.1	0.50	9980494
Dissolved Nickel (Ni)	ug/L	17	17	1.0	9980494	1.6	1.0	9980494
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	9980494	<2.0	2.0	9980494
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	9980494	<0.090	0.090	9980494
Dissolved Sodium (Na)	ug/L	590000	600000	100	9980494	1100000	500	9980494
Dissolved Thallium (Tl)	ug/L	0.18	0.18	0.050	9980494	<0.050	0.050	9980494
Dissolved Uranium (U)	ug/L	17	17	0.10	9980494	0.84	0.10	9980494
Dissolved Vanadium (V)	ug/L	0.60	0.53	0.50	9980494	<0.50	0.50	9980494
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	9980494	<5.0	5.0	9980494
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ATNB27	ATNB28	ATNB29	ATNB30		
Sampling Date		2025/07/29 11:25	2025/07/29 12:30	2025/07/29 12:00	2025/07/29 13:20		
COC Number		C#1053871-01-01	C#1053871-01-01	C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-03	MW25-04	MW25-05	MW25-06	RDL	QC Batch
Metals							
Chromium (VI)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9981671
Mercury (Hg)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	9981327
Dissolved Antimony (Sb)	ug/L	<0.50	3.0	<0.50	2.6	0.50	9980494
Dissolved Arsenic (As)	ug/L	<1.0	3.4	<1.0	1.5	1.0	9980494
Dissolved Barium (Ba)	ug/L	390	120	67	190	2.0	9980494
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	9980494
Dissolved Boron (B)	ug/L	86	24	190	40	10	9980494
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	<0.090	0.090	9980494
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	9980494
Dissolved Cobalt (Co)	ug/L	1.2	13	1.8	17	0.50	9980494
Dissolved Copper (Cu)	ug/L	1.7	0.93	2.9	1.5	0.90	9980494
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980494
Dissolved Molybdenum (Mo)	ug/L	9.6	10	52	8.0	0.50	9980494
Dissolved Nickel (Ni)	ug/L	3.2	23	12	33	1.0	9980494
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	9980494
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	<0.090	0.090	9980494
Dissolved Sodium (Na)	ug/L	55000	560000	330000	380000	100	9980494
Dissolved Thallium (Tl)	ug/L	<0.050	0.18	0.081	0.38	0.050	9980494
Dissolved Uranium (U)	ug/L	3.9	17	7.7	20	0.10	9980494
Dissolved Vanadium (V)	ug/L	1.2	<0.50	<0.50	<0.50	0.50	9980494
Dissolved Zinc (Zn)	ug/L	9.6	<5.0	8.6	<5.0	5.0	9980494
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		ATNB24	ATNB25	ATNB26	ATNB27	ATNB28		
Sampling Date		2025/07/29 10:20	2025/07/29 10:20	2025/07/29 11:10	2025/07/29 11:25	2025/07/29 12:30		
COC Number		C#1053871-01-01	C#1053871-01-01	C#1053871-01-01	C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-01	MW25-011	MW25-02	MW25-03	MW25-04	RDL	QC Batch

Calculated Parameters

Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	2.5	<0.071	<0.071	0.071	9979639
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Polyaromatic Hydrocarbons

Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	9980350
Benzo(b,j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.96	<0.050	<0.050	0.050	9980350
2-Methylnaphthalene	ug/L	<0.050	<0.050	1.6	<0.050	<0.050	0.050	9980350
Naphthalene	ug/L	<0.050	<0.050	2.5	<0.050	<0.050	0.050	9980350
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	9980350
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9980350

Surrogate Recovery (%)

D10-Anthracene	%	114	108	109	107	108		9980350
D14-Terphenyl (FS)	%	108	98	99	97	99		9980350
D8-Acenaphthylene	%	91	88	90	89	87		9980350

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		ATNB29	ATNB30		
Sampling Date		2025/07/29 12:00	2025/07/29 13:20		
COC Number		C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-05	MW25-06	RDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	9979639
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	<0.050	0.050	9980350
Acenaphthylene	ug/L	<0.050	<0.050	0.050	9980350
Anthracene	ug/L	<0.050	<0.050	0.050	9980350
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	9980350
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	9980350
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	9980350
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	9980350
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	9980350
Chrysene	ug/L	<0.050	<0.050	0.050	9980350
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	9980350
Fluoranthene	ug/L	<0.050	<0.050	0.050	9980350
Fluorene	ug/L	<0.050	<0.050	0.050	9980350
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	9980350
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	9980350
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	9980350
Naphthalene	ug/L	<0.050	<0.050	0.050	9980350
Phenanthrene	ug/L	<0.030	<0.030	0.030	9980350
Pyrene	ug/L	<0.050	<0.050	0.050	9980350
Surrogate Recovery (%)					
D10-Anthracene	%	105	106		9980350
D14-Terphenyl (FS)	%	95	97		9980350
D8-Acenaphthylene	%	87	83		9980350
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		ATNB24	ATNB25	ATNB26	ATNB27		
Sampling Date		2025/07/29 10:20	2025/07/29 10:20	2025/07/29 11:10	2025/07/29 11:25		
COC Number		C#1053871-01-01	C#1053871-01-01	C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-01	MW25-011	MW25-02	MW25-03	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9979641
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	31	10	9980771
Benzene	ug/L	<0.17	<0.17	3.6	<0.17	0.17	9980771
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	9980771
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	9980771
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	9980771
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	9980771
Ethylbenzene	ug/L	<0.20	<0.20	1.5	<0.20	0.20	9980771
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	9980771
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	9980771
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	9980771
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	9980771
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	1.1	<0.50	0.50	9980771
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		ATNB24	ATNB25	ATNB26	ATNB27		
Sampling Date		2025/07/29 10:20	2025/07/29 10:20	2025/07/29 11:10	2025/07/29 11:25		
COC Number		C#1053871-01-01	C#1053871-01-01	C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-01	MW25-011	MW25-02	MW25-03	RDL	QC Batch
Toluene	ug/L	<0.20	<0.20	2.1	<0.20	0.20	9980771
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9980771
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9980771
p+m-Xylene	ug/L	<0.20	<0.20	7.1	<0.20	0.20	9980771
o-Xylene	ug/L	<0.20	<0.20	7.2	<0.20	0.20	9980771
Total Xylenes	ug/L	<0.20	<0.20	14	<0.20	0.20	9980771
F1 (C6-C10)	ug/L	<25	<25	57	<25	25	9980771
F1 (C6-C10) - BTEX	ug/L	<25	<25	36	<25	25	9980771
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	102	102	103	103		9980771
D4-1,2-Dichloroethane	%	102	105	110	101		9980771
D8-Toluene	%	98	97	96	99		9980771
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		ATNB28	ATNB29	ATNB30		
Sampling Date		2025/07/29 12:30	2025/07/29 12:00	2025/07/29 13:20		
COC Number		C#1053871-01-01	C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-04	MW25-05	MW25-06	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	9979641
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	9980771
Benzene	ug/L	<0.17	<0.17	<0.17	0.17	9980771
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	9980771
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	9980771
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	9980771
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	9980771
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	9980771
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	9980771
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	9980771
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	9980771
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	9980771
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	9980771
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	9980771
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	9980771
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	9980771
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	9980771
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	9980771
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	9980771
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	9980771
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	9980771
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	9980771
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	9980771
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	9980771
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	9980771
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	9980771
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	9980771
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	9980771
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	0.50	9980771
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	9980771
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	9980771
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	9980771
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	9980771
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		ATNB28	ATNB29	ATNB30		
Sampling Date		2025/07/29 12:30	2025/07/29 12:00	2025/07/29 13:20		
COC Number		C#1053871-01-01	C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-04	MW25-05	MW25-06	RDL	QC Batch
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	9980771
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	9980771
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	9980771
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	9980771
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	9980771
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	9980771
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	9980771
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	9980771
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	9980771
F1 (C6-C10)	ug/L	<25	<25	<25	25	9980771
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	9980771
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	102	102	103		9980771
D4-1,2-Dichloroethane	%	99	103	100		9980771
D8-Toluene	%	98	97	100		9980771
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ATNB24	ATNB25	ATNB26	ATNB27	ATNB28		
Sampling Date		2025/07/29 10:20	2025/07/29 10:20	2025/07/29 11:10	2025/07/29 11:25	2025/07/29 12:30		
COC Number		C#1053871-01-01	C#1053871-01-01	C#1053871-01-01	C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-01	MW25-011	MW25-02	MW25-03	MW25-04	RDL	QC Batch

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/L	<90	<90	<90	<90	<90	90	9980352
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	9980352
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	9980352
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		9980352

Surrogate Recovery (%)

o-Terphenyl	%	95	98	93	98	98		9980352
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Bureau Veritas ID		ATNB29	ATNB30		
Sampling Date		2025/07/29 12:00	2025/07/29 13:20		
COC Number		C#1053871-01-01	C#1053871-01-01		
	UNITS	MW25-05	MW25-06	RDL	QC Batch

F2-F4 Hydrocarbons

F2 (C10-C16 Hydrocarbons)	ug/L	<90	<90	90	9980352
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	9980352
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	9980352
Reached Baseline at C50	ug/L	Yes	Yes		9980352

Surrogate Recovery (%)

o-Terphenyl	%	89	95		9980352
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



Bureau Veritas Job #: C591884

Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.

Client Project #: 705228

Your P.O. #: 49644

Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATNB24
Sample ID: MW25-01
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9979639	N/A	2025/08/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9980897	N/A	2025/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	9981671	N/A	2025/08/02	Sousan Besharatlou
Free (WAD) Cyanide	SKAL/CN	9980415	N/A	2025/07/31	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9980352	2025/07/31	2025/07/31	Agnieszka Brzuzy-Snopko
Mercury	CV/AA	9981327	2025/08/01	2025/08/01	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9980494	N/A	2025/07/31	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9980350	2025/07/31	2025/07/31	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980771	N/A	2025/08/05	Gladys Guerrero

Bureau Veritas ID: ATNB25
Sample ID: MW25-011
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9979639	N/A	2025/08/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9980897	N/A	2025/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	9981671	N/A	2025/08/02	Sousan Besharatlou
Free (WAD) Cyanide	SKAL/CN	9980416	N/A	2025/07/31	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9980352	2025/07/31	2025/07/31	Agnieszka Brzuzy-Snopko
Mercury	CV/AA	9981327	2025/08/01	2025/08/01	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9980494	N/A	2025/07/31	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9980350	2025/07/31	2025/07/31	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980771	N/A	2025/08/05	Gladys Guerrero

Bureau Veritas ID: ATNB26
Sample ID: MW25-02
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9979639	N/A	2025/08/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9980897	N/A	2025/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	9981671	N/A	2025/08/02	Sousan Besharatlou
Free (WAD) Cyanide	SKAL/CN	9980415	N/A	2025/07/31	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9980352	2025/07/31	2025/07/31	Agnieszka Brzuzy-Snopko
Mercury	CV/AA	9982651	2025/08/05	2025/08/06	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9980494	N/A	2025/08/01	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9980350	2025/07/31	2025/07/31	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980771	N/A	2025/08/05	Gladys Guerrero



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATNB27
Sample ID: MW25-03
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9979639	N/A	2025/08/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9980897	N/A	2025/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	9981671	N/A	2025/08/02	Sousan Besharatlou
Free (WAD) Cyanide	SKAL/CN	9980416	N/A	2025/08/01	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9980352	2025/07/31	2025/07/31	Agnieszka Brzuzy-Snopko
Mercury	CV/AA	9981327	2025/08/01	2025/08/01	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9980494	N/A	2025/07/31	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9980350	2025/07/31	2025/07/31	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980771	N/A	2025/08/05	Gladys Guerrero

Bureau Veritas ID: ATNB27 Dup
Sample ID: MW25-03
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	9980416	N/A	2025/08/01	Prgya Panchal

Bureau Veritas ID: ATNB28
Sample ID: MW25-04
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9979639	N/A	2025/08/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9980592	N/A	2025/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	9981671	N/A	2025/08/02	Sousan Besharatlou
Free (WAD) Cyanide	SKAL/CN	9980416	N/A	2025/07/31	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9980352	2025/07/31	2025/07/31	Agnieszka Brzuzy-Snopko
Mercury	CV/AA	9981327	2025/08/01	2025/08/01	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9980494	N/A	2025/07/31	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9980350	2025/07/31	2025/07/31	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980771	N/A	2025/08/05	Gladys Guerrero

Bureau Veritas ID: ATNB29
Sample ID: MW25-05
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9979639	N/A	2025/08/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9980897	N/A	2025/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	9981671	N/A	2025/08/02	Sousan Besharatlou
Free (WAD) Cyanide	SKAL/CN	9980415	N/A	2025/07/31	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9980352	2025/07/31	2025/07/31	Agnieszka Brzuzy-Snopko
Mercury	CV/AA	9981327	2025/08/01	2025/08/01	Maitri PATIL



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATNB29
Sample ID: MW25-05
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	9980494	N/A	2025/07/31	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9980350	2025/07/31	2025/07/31	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980771	N/A	2025/08/05	Gladys Guerrero

Bureau Veritas ID: ATNB30
Sample ID: MW25-06
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9979639	N/A	2025/08/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9980592	N/A	2025/08/05	Alina Dobreanu
Chromium (VI) in Water	IC	9981671	N/A	2025/08/02	Sousan Besharatlou
Free (WAD) Cyanide	SKAL/CN	9980415	N/A	2025/07/31	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9980352	2025/07/31	2025/07/31	Agnieszka Brzuzy-Snopko
Mercury	CV/AA	9981327	2025/08/01	2025/08/01	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9980494	N/A	2025/07/31	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9980350	2025/07/31	2025/07/31	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980771	N/A	2025/08/05	Gladys Guerrero



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	13.3°C
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Results relate only to the items tested.



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT

QA/QC		QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
Batch	Init							
9980350	JET	Matrix Spike	D10-Anthracene	2025/07/31		94	%	50 - 130
			D14-Terphenyl (FS)	2025/07/31		79	%	50 - 130
			D8-Acenaphthylene	2025/07/31		82	%	50 - 130
			Acenaphthene	2025/07/31		95	%	50 - 130
			Acenaphthylene	2025/07/31		92	%	50 - 130
			Anthracene	2025/07/31		107	%	50 - 130
			Benzo(a)anthracene	2025/07/31		104	%	50 - 130
			Benzo(a)pyrene	2025/07/31		99	%	50 - 130
			Benzo(b/j)fluoranthene	2025/07/31		106	%	50 - 130
			Benzo(g,h,i)perylene	2025/07/31		107	%	50 - 130
			Benzo(k)fluoranthene	2025/07/31		99	%	50 - 130
			Chrysene	2025/07/31		106	%	50 - 130
			Dibenzo(a,h)anthracene	2025/07/31		84	%	50 - 130
			Fluoranthene	2025/07/31		115	%	50 - 130
			Fluorene	2025/07/31		91	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/07/31		105	%	50 - 130
			1-Methylnaphthalene	2025/07/31		98	%	50 - 130
			2-Methylnaphthalene	2025/07/31		97	%	50 - 130
			Naphthalene	2025/07/31		96	%	50 - 130
			Phenanthrene	2025/07/31		103	%	50 - 130
			Pyrene	2025/07/31		116	%	50 - 130
9980350	JET	Spiked Blank	D10-Anthracene	2025/07/31		108	%	50 - 130
			D14-Terphenyl (FS)	2025/07/31		96	%	50 - 130
			D8-Acenaphthylene	2025/07/31		91	%	50 - 130
			Acenaphthene	2025/07/31		90	%	50 - 130
			Acenaphthylene	2025/07/31		88	%	50 - 130
			Anthracene	2025/07/31		106	%	50 - 130
			Benzo(a)anthracene	2025/07/31		103	%	50 - 130
			Benzo(a)pyrene	2025/07/31		101	%	50 - 130
			Benzo(b/j)fluoranthene	2025/07/31		107	%	50 - 130
			Benzo(g,h,i)perylene	2025/07/31		110	%	50 - 130
			Benzo(k)fluoranthene	2025/07/31		110	%	50 - 130
			Chrysene	2025/07/31		108	%	50 - 130
			Dibenzo(a,h)anthracene	2025/07/31		87	%	50 - 130
			Fluoranthene	2025/07/31		114	%	50 - 130
			Fluorene	2025/07/31		88	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/07/31		107	%	50 - 130
			1-Methylnaphthalene	2025/07/31		97	%	50 - 130
			2-Methylnaphthalene	2025/07/31		93	%	50 - 130
			Naphthalene	2025/07/31		95	%	50 - 130
			Phenanthrene	2025/07/31		101	%	50 - 130
			Pyrene	2025/07/31		115	%	50 - 130
9980350	JET	Method Blank	D10-Anthracene	2025/07/31		112	%	50 - 130
			D14-Terphenyl (FS)	2025/07/31		119	%	50 - 130
			D8-Acenaphthylene	2025/07/31		105	%	50 - 130
			Acenaphthene	2025/07/31	<0.050		ug/L	
			Acenaphthylene	2025/07/31	<0.050		ug/L	
			Anthracene	2025/07/31	<0.050		ug/L	
			Benzo(a)anthracene	2025/07/31	<0.050		ug/L	
			Benzo(a)pyrene	2025/07/31	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2025/07/31	<0.050		ug/L	
			Benzo(g,h,i)perylene	2025/07/31	<0.050		ug/L	
			Benzo(k)fluoranthene	2025/07/31	<0.050		ug/L	



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980350	JET	RPD	Chrysene	2025/07/31	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2025/07/31	<0.050		ug/L	
			Fluoranthene	2025/07/31	<0.050		ug/L	
			Fluorene	2025/07/31	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2025/07/31	<0.050		ug/L	
			1-Methylnaphthalene	2025/07/31	<0.050		ug/L	
			2-Methylnaphthalene	2025/07/31	<0.050		ug/L	
			Naphthalene	2025/07/31	<0.050		ug/L	
			Phenanthrene	2025/07/31	<0.030		ug/L	
			Pyrene	2025/07/31	<0.050		ug/L	
			Acenaphthene	2025/07/31	NC		%	30
			Acenaphthylene	2025/07/31	NC		%	30
			Anthracene	2025/07/31	NC		%	30
			Benzo(a)anthracene	2025/07/31	NC		%	30
			Benzo(a)pyrene	2025/07/31	NC		%	30
			Benzo(b/j)fluoranthene	2025/07/31	NC		%	30
			Benzo(g,h,i)perylene	2025/07/31	NC		%	30
			Benzo(k)fluoranthene	2025/07/31	NC		%	30
			Chrysene	2025/07/31	NC		%	30
			Dibenzo(a,h)anthracene	2025/07/31	NC		%	30
			Fluoranthene	2025/07/31	NC		%	30
			Fluorene	2025/07/31	NC		%	30
			Indeno(1,2,3-cd)pyrene	2025/07/31	NC		%	30
			1-Methylnaphthalene	2025/07/31	2.5		%	30
			2-Methylnaphthalene	2025/07/31	NC		%	30
			Naphthalene	2025/07/31	2.5		%	30
			Phenanthrene	2025/07/31	6.5		%	30
			Pyrene	2025/07/31	NC		%	30
9980352	ABS	Matrix Spike	o-Terphenyl	2025/07/31		99	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/31		100	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/07/31		107	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/07/31		103	%	60 - 140
9980352	ABS	Spiked Blank	o-Terphenyl	2025/07/31		99	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/31		98	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/07/31		106	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/07/31		100	%	60 - 140
9980352	ABS	Method Blank	o-Terphenyl	2025/07/31		97	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/31	<90		ug/L	
			F3 (C16-C34 Hydrocarbons)	2025/07/31	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2025/07/31	<200		ug/L	
9980352	ABS	RPD	F2 (C10-C16 Hydrocarbons)	2025/07/31	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2025/07/31	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2025/07/31	NC		%	30
9980415	GYA	Matrix Spike	WAD Cyanide (Free)	2025/08/01		23 (1)	%	80 - 120
9980415	GYA	Spiked Blank	WAD Cyanide (Free)	2025/07/31		91	%	80 - 120
9980415	GYA	Method Blank	WAD Cyanide (Free)	2025/07/31	<1		ug/L	
9980415	GYA	RPD	WAD Cyanide (Free)	2025/08/01	NC		%	20
9980416	GYA	Matrix Spike [ATNB27-03]	WAD Cyanide (Free)	2025/08/01		94	%	80 - 120
9980416	GYA	Spiked Blank	WAD Cyanide (Free)	2025/07/31		91	%	80 - 120
9980416	GYA	Method Blank	WAD Cyanide (Free)	2025/07/31	<1		ug/L	
9980416	GYA	RPD [ATNB27-03]	WAD Cyanide (Free)	2025/08/01	NC		%	20
9980494	AFZ	Matrix Spike	Dissolved Antimony (Sb)	2025/07/31		105	%	80 - 120
			Dissolved Arsenic (As)	2025/07/31		102	%	80 - 120



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ATKINSRÉALIS CANADA INC.
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980494	AFZ	Spiked Blank		Dissolved Barium (Ba)	2025/07/31		100	%	80 - 120
				Dissolved Beryllium (Be)	2025/07/31		101	%	80 - 120
				Dissolved Boron (B)	2025/07/31		98	%	80 - 120
				Dissolved Cadmium (Cd)	2025/07/31		102	%	80 - 120
				Dissolved Chromium (Cr)	2025/07/31		98	%	80 - 120
				Dissolved Cobalt (Co)	2025/07/31		99	%	80 - 120
				Dissolved Copper (Cu)	2025/07/31		100	%	80 - 120
				Dissolved Lead (Pb)	2025/07/31		100	%	80 - 120
				Dissolved Molybdenum (Mo)	2025/07/31		100	%	80 - 120
				Dissolved Nickel (Ni)	2025/07/31		99	%	80 - 120
				Dissolved Selenium (Se)	2025/07/31		105	%	80 - 120
				Dissolved Silver (Ag)	2025/07/31		99	%	80 - 120
				Dissolved Sodium (Na)	2025/07/31		98	%	80 - 120
				Dissolved Thallium (Tl)	2025/07/31		103	%	80 - 120
				Dissolved Uranium (U)	2025/07/31		101	%	80 - 120
				Dissolved Vanadium (V)	2025/07/31		100	%	80 - 120
				Dissolved Zinc (Zn)	2025/07/31		101	%	80 - 120
				Dissolved Antimony (Sb)	2025/07/31		103	%	80 - 120
				Dissolved Arsenic (As)	2025/07/31		102	%	80 - 120
				Dissolved Barium (Ba)	2025/07/31		101	%	80 - 120
				Dissolved Beryllium (Be)	2025/07/31		100	%	80 - 120
				Dissolved Boron (B)	2025/07/31		97	%	80 - 120
				Dissolved Cadmium (Cd)	2025/07/31		102	%	80 - 120
				Dissolved Chromium (Cr)	2025/07/31		98	%	80 - 120
				Dissolved Cobalt (Co)	2025/07/31		99	%	80 - 120
				Dissolved Copper (Cu)	2025/07/31		102	%	80 - 120
				Dissolved Lead (Pb)	2025/07/31		101	%	80 - 120
				Dissolved Molybdenum (Mo)	2025/07/31		100	%	80 - 120
				Dissolved Nickel (Ni)	2025/07/31		99	%	80 - 120
				Dissolved Selenium (Se)	2025/07/31		103	%	80 - 120
				Dissolved Silver (Ag)	2025/07/31		99	%	80 - 120
				Dissolved Sodium (Na)	2025/07/31		101	%	80 - 120
				Dissolved Thallium (Tl)	2025/07/31		101	%	80 - 120
				Dissolved Uranium (U)	2025/07/31		102	%	80 - 120
				Dissolved Vanadium (V)	2025/07/31		98	%	80 - 120
				Dissolved Zinc (Zn)	2025/07/31		101	%	80 - 120
9980494	AFZ	Method Blank		Dissolved Antimony (Sb)	2025/07/31	<0.50		ug/L	
				Dissolved Arsenic (As)	2025/07/31	<1.0		ug/L	
				Dissolved Barium (Ba)	2025/07/31	<2.0		ug/L	
				Dissolved Beryllium (Be)	2025/07/31	<0.40		ug/L	
				Dissolved Boron (B)	2025/07/31	<10		ug/L	
				Dissolved Cadmium (Cd)	2025/07/31	<0.090		ug/L	
				Dissolved Chromium (Cr)	2025/07/31	<5.0		ug/L	
				Dissolved Cobalt (Co)	2025/07/31	<0.50		ug/L	
				Dissolved Copper (Cu)	2025/07/31	<0.90		ug/L	
				Dissolved Lead (Pb)	2025/07/31	<0.50		ug/L	
				Dissolved Molybdenum (Mo)	2025/07/31	<0.50		ug/L	
				Dissolved Nickel (Ni)	2025/07/31	<1.0		ug/L	
				Dissolved Selenium (Se)	2025/07/31	<2.0		ug/L	
				Dissolved Silver (Ag)	2025/07/31	<0.090		ug/L	
				Dissolved Sodium (Na)	2025/07/31	<100		ug/L	
				Dissolved Thallium (Tl)	2025/07/31	<0.050		ug/L	
				Dissolved Uranium (U)	2025/07/31	<0.10		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980494	AFZ	RPD	Dissolved Vanadium (V)	2025/07/31	<0.50		ug/L	
			Dissolved Zinc (Zn)	2025/07/31	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/07/31	NC		%	20
			Dissolved Arsenic (As)	2025/07/31	NC		%	20
			Dissolved Barium (Ba)	2025/07/31	9.2		%	20
			Dissolved Beryllium (Be)	2025/07/31	NC		%	20
			Dissolved Boron (B)	2025/07/31	NC		%	20
			Dissolved Cadmium (Cd)	2025/07/31	NC		%	20
			Dissolved Chromium (Cr)	2025/07/31	NC		%	20
			Dissolved Cobalt (Co)	2025/07/31	NC		%	20
			Dissolved Copper (Cu)	2025/07/31	NC		%	20
			Dissolved Lead (Pb)	2025/07/31	NC		%	20
			Dissolved Molybdenum (Mo)	2025/07/31	7.7		%	20
			Dissolved Nickel (Ni)	2025/07/31	NC		%	20
			Dissolved Selenium (Se)	2025/07/31	NC		%	20
			Dissolved Silver (Ag)	2025/07/31	NC		%	20
			Dissolved Sodium (Na)	2025/07/31	0.21		%	20
			Dissolved Thallium (Tl)	2025/07/31	NC		%	20
			Dissolved Uranium (U)	2025/07/31	2.0		%	20
			Dissolved Vanadium (V)	2025/07/31	5.7		%	20
9980592	ADB	Matrix Spike	Dissolved Zinc (Zn)	2025/07/31	NC		%	20
			Dissolved Chloride (Cl-)	2025/08/05		NC	%	80 - 120
			Dissolved Chloride (Cl-)	2025/08/05		100	%	80 - 120
			Dissolved Chloride (Cl-)	2025/08/05	<1.0		mg/L	
			Dissolved Chloride (Cl-)	2025/08/05	0.33		%	20
	GGU	Matrix Spike	4-Bromofluorobenzene	2025/08/05		103	%	70 - 130
			D4-1,2-Dichloroethane	2025/08/05		99	%	70 - 130
			D8-Toluene	2025/08/05		100	%	70 - 130
			Acetone (2-Propanone)	2025/08/05		81	%	60 - 140
			Benzene	2025/08/05		92	%	70 - 130
			Bromodichloromethane	2025/08/05		83	%	70 - 130
			Bromoform	2025/08/05		72	%	70 - 130
			Bromomethane	2025/08/05		81	%	60 - 140
			Carbon Tetrachloride	2025/08/05		90	%	70 - 130
			Chlorobenzene	2025/08/05		88	%	70 - 130
			Chloroform	2025/08/05		88	%	70 - 130
			Dibromochloromethane	2025/08/05		82	%	70 - 130
			1,2-Dichlorobenzene	2025/08/05		96	%	70 - 130
			1,3-Dichlorobenzene	2025/08/05		99	%	70 - 130
			1,4-Dichlorobenzene	2025/08/05		99	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2025/08/05		100	%	60 - 140
			1,1-Dichloroethane	2025/08/05		86	%	70 - 130
			1,2-Dichloroethane	2025/08/05		94	%	70 - 130
			1,1-Dichloroethylene	2025/08/05		90	%	70 - 130
			cis-1,2-Dichloroethylene	2025/08/05		98	%	70 - 130
			trans-1,2-Dichloroethylene	2025/08/05		97	%	70 - 130
			1,2-Dichloropropane	2025/08/05		91	%	70 - 130
			cis-1,3-Dichloropropene	2025/08/05		83	%	70 - 130
			trans-1,3-Dichloropropene	2025/08/05		87	%	70 - 130
			Ethylbenzene	2025/08/05		89	%	70 - 130
			Ethylene Dibromide	2025/08/05		93	%	70 - 130
			Hexane	2025/08/05		96	%	70 - 130
			Methylene Chloride(Dichloromethane)	2025/08/05		88	%	70 - 130



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC									
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits	
9980771	GGU	Spiked Blank	Methyl Ethyl Ketone (2-Butanone)	2025/08/05		81	%	60 - 140	
			Methyl Isobutyl Ketone	2025/08/05		88	%	70 - 130	
			Methyl t-butyl ether (MTBE)	2025/08/05		93	%	70 - 130	
			Styrene	2025/08/05		89	%	70 - 130	
			1,1,1,2-Tetrachloroethane	2025/08/05		92	%	70 - 130	
			1,1,2,2-Tetrachloroethane	2025/08/05		85	%	70 - 130	
			Tetrachloroethylene	2025/08/05		94	%	70 - 130	
			Toluene	2025/08/05		91	%	70 - 130	
			1,1,1-Trichloroethane	2025/08/05		88	%	70 - 130	
			1,1,2-Trichloroethane	2025/08/05		92	%	70 - 130	
			Trichloroethylene	2025/08/05		96	%	70 - 130	
			Trichlorofluoromethane (FREON 11)	2025/08/05		93	%	70 - 130	
			Vinyl Chloride	2025/08/05		88	%	70 - 130	
			p+m-Xylene	2025/08/05		91	%	70 - 130	
			o-Xylene	2025/08/05		96	%	70 - 130	
			F1 (C6-C10)	2025/08/05		91	%	60 - 140	
			4-Bromofluorobenzene	2025/08/05		104	%	70 - 130	
			D4-1,2-Dichloroethane	2025/08/05		103	%	70 - 130	
			D8-Toluene	2025/08/05		100	%	70 - 130	
			Acetone (2-Propanone)	2025/08/05		105	%	60 - 140	
			Benzene	2025/08/05		100	%	70 - 130	
			Bromodichloromethane	2025/08/05		93	%	70 - 130	
			Bromoform	2025/08/05		86	%	70 - 130	
			Bromomethane	2025/08/05		92	%	60 - 140	
			Carbon Tetrachloride	2025/08/05		100	%	70 - 130	
			Chlorobenzene	2025/08/05		96	%	70 - 130	
			Chloroform	2025/08/05		96	%	70 - 130	
			Dibromochloromethane	2025/08/05		94	%	70 - 130	
			1,2-Dichlorobenzene	2025/08/05		104	%	70 - 130	
			1,3-Dichlorobenzene	2025/08/05		108	%	70 - 130	
			1,4-Dichlorobenzene	2025/08/05		106	%	70 - 130	
			Dichlorodifluoromethane (FREON 12)	2025/08/05		111	%	60 - 140	
			1,1-Dichloroethane	2025/08/05		94	%	70 - 130	
			1,2-Dichloroethane	2025/08/05		104	%	70 - 130	
			1,1-Dichloroethylene	2025/08/05		99	%	70 - 130	
			cis-1,2-Dichloroethylene	2025/08/05		108	%	70 - 130	
			trans-1,2-Dichloroethylene	2025/08/05		105	%	70 - 130	
			1,2-Dichloropropane	2025/08/05		100	%	70 - 130	
			cis-1,3-Dichloropropene	2025/08/05		91	%	70 - 130	
			trans-1,3-Dichloropropene	2025/08/05		96	%	70 - 130	
			Ethylbenzene	2025/08/05		97	%	70 - 130	
			Ethylene Dibromide	2025/08/05		102	%	70 - 130	
			Hexane	2025/08/05		105	%	70 - 130	
			Methylene Chloride(Dichloromethane)	2025/08/05		97	%	70 - 130	
			Methyl Ethyl Ketone (2-Butanone)	2025/08/05		101	%	60 - 140	
			Methyl Isobutyl Ketone	2025/08/05		103	%	70 - 130	
			Methyl t-butyl ether (MTBE)	2025/08/05		101	%	70 - 130	
			Styrene	2025/08/05		100	%	70 - 130	
			1,1,1,2-Tetrachloroethane	2025/08/05		104	%	70 - 130	
			1,1,2,2-Tetrachloroethane	2025/08/05		96	%	70 - 130	
			Tetrachloroethylene	2025/08/05		102	%	70 - 130	
			Toluene	2025/08/05		98	%	70 - 130	
			1,1,1-Trichloroethane	2025/08/05		96	%	70 - 130	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980771	GGU	Method Blank	1,1,2-Trichloroethane	2025/08/05		101	%	70 - 130
			Trichloroethylene	2025/08/05		104	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2025/08/05		101	%	70 - 130
			Vinyl Chloride	2025/08/05		98	%	70 - 130
			p+m-Xylene	2025/08/05		99	%	70 - 130
			o-Xylene	2025/08/05		106	%	70 - 130
			F1 (C6-C10)	2025/08/05		103	%	60 - 140
			4-Bromofluorobenzene	2025/08/05		103	%	70 - 130
			D4-1,2-Dichloroethane	2025/08/05		98	%	70 - 130
			D8-Toluene	2025/08/05		97	%	70 - 130
			Acetone (2-Propanone)	2025/08/05	<10		ug/L	
			Benzene	2025/08/05	<0.17		ug/L	
			Bromodichloromethane	2025/08/05	<0.50		ug/L	
			Bromoform	2025/08/05	<1.0		ug/L	
			Bromomethane	2025/08/05	<0.50		ug/L	
			Carbon Tetrachloride	2025/08/05	<0.20		ug/L	
			Chlorobenzene	2025/08/05	<0.20		ug/L	
			Chloroform	2025/08/05	<0.20		ug/L	
			Dibromochloromethane	2025/08/05	<0.50		ug/L	
			1,2-Dichlorobenzene	2025/08/05	<0.50		ug/L	
			1,3-Dichlorobenzene	2025/08/05	<0.50		ug/L	
			1,4-Dichlorobenzene	2025/08/05	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2025/08/05	<1.0		ug/L	
			1,1-Dichloroethane	2025/08/05	<0.20		ug/L	
			1,2-Dichloroethane	2025/08/05	<0.50		ug/L	
			1,1-Dichloroethylene	2025/08/05	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2025/08/05	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2025/08/05	<0.50		ug/L	
			1,2-Dichloropropane	2025/08/05	<0.20		ug/L	
			cis-1,3-Dichloropropene	2025/08/05	<0.30		ug/L	
			trans-1,3-Dichloropropene	2025/08/05	<0.40		ug/L	
			Ethylbenzene	2025/08/05	<0.20		ug/L	
			Ethylene Dibromide	2025/08/05	<0.20		ug/L	
			Hexane	2025/08/05	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2025/08/05	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2025/08/05	<10		ug/L	
			Methyl Isobutyl Ketone	2025/08/05	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2025/08/05	<0.50		ug/L	
			Styrene	2025/08/05	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2025/08/05	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2025/08/05	<0.50		ug/L	
			Tetrachloroethylene	2025/08/05	<0.20		ug/L	
			Toluene	2025/08/05	<0.20		ug/L	
			1,1,1-Trichloroethane	2025/08/05	<0.20		ug/L	
			1,1,2-Trichloroethane	2025/08/05	<0.50		ug/L	
			Trichloroethylene	2025/08/05	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2025/08/05	<0.50		ug/L	
			Vinyl Chloride	2025/08/05	<0.20		ug/L	
			p+m-Xylene	2025/08/05	<0.20		ug/L	
			o-Xylene	2025/08/05	<0.20		ug/L	
			Total Xylenes	2025/08/05	<0.20		ug/L	
			F1 (C6-C10)	2025/08/05	<25		ug/L	
			F1 (C6-C10) - BTEX	2025/08/05	<25		ug/L	



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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980771	GGU	RPD		Acetone (2-Propanone)	2025/08/05	NC		%	30
				Benzene	2025/08/05	4.0		%	30
				Bromodichloromethane	2025/08/05	NC		%	30
				Bromoform	2025/08/05	NC		%	30
				Bromomethane	2025/08/05	NC		%	30
				Carbon Tetrachloride	2025/08/05	NC		%	30
				Chlorobenzene	2025/08/05	NC		%	30
				Chloroform	2025/08/05	NC		%	30
				Dibromochloromethane	2025/08/05	NC		%	30
				1,2-Dichlorobenzene	2025/08/05	NC		%	30
				1,3-Dichlorobenzene	2025/08/05	NC		%	30
				1,4-Dichlorobenzene	2025/08/05	NC		%	30
				Dichlorodifluoromethane (FREON 12)	2025/08/05	NC		%	30
				1,1-Dichloroethane	2025/08/05	NC		%	30
				1,2-Dichloroethane	2025/08/05	NC		%	30
				1,1-Dichloroethylene	2025/08/05	NC		%	30
				cis-1,2-Dichloroethylene	2025/08/05	NC		%	30
				trans-1,2-Dichloroethylene	2025/08/05	NC		%	30
				1,2-Dichloropropane	2025/08/05	NC		%	30
				cis-1,3-Dichloropropene	2025/08/05	NC		%	30
				trans-1,3-Dichloropropene	2025/08/05	NC		%	30
				Ethylbenzene	2025/08/05	NC		%	30
				Ethylene Dibromide	2025/08/05	NC		%	30
				Hexane	2025/08/05	NC		%	30
				Methylene Chloride(Dichloromethane)	2025/08/05	NC		%	30
				Methyl Ethyl Ketone (2-Butanone)	2025/08/05	NC		%	30
				Methyl Isobutyl Ketone	2025/08/05	NC		%	30
				Methyl t-butyl ether (MTBE)	2025/08/05	NC		%	30
				Styrene	2025/08/05	NC		%	30
				1,1,1,2-Tetrachloroethane	2025/08/05	NC		%	30
				1,1,2,2-Tetrachloroethane	2025/08/05	NC		%	30
				Tetrachloroethylene	2025/08/05	NC		%	30
				Toluene	2025/08/05	NC		%	30
				1,1,1-Trichloroethane	2025/08/05	NC		%	30
				1,1,2-Trichloroethane	2025/08/05	NC		%	30
				Trichloroethylene	2025/08/05	NC		%	30
				Trichlorofluoromethane (FREON 11)	2025/08/05	NC		%	30
				Vinyl Chloride	2025/08/05	NC		%	30
				p+m-Xylene	2025/08/05	NC		%	30
				o-Xylene	2025/08/05	NC		%	30
				Total Xylenes	2025/08/05	NC		%	30
				F1 (C6-C10)	2025/08/05	NC		%	30
				F1 (C6-C10) - BTEX	2025/08/05	NC		%	30
9980897	ADB	Matrix Spike		Dissolved Chloride (Cl-)	2025/08/05		86	%	80 - 120
9980897	ADB	Spiked Blank		Dissolved Chloride (Cl-)	2025/08/05		101	%	80 - 120
9980897	ADB	Method Blank		Dissolved Chloride (Cl-)	2025/08/05	<1.0		mg/L	
9980897	ADB	RPD		Dissolved Chloride (Cl-)	2025/08/05	NC		%	20
9981327	MPJ	Matrix Spike		Mercury (Hg)	2025/08/01		97	%	75 - 125
9981327	MPJ	Spiked Blank		Mercury (Hg)	2025/08/01		100	%	80 - 120
9981327	MPJ	Method Blank		Mercury (Hg)	2025/08/01	<0.10		ug/L	
9981327	MPJ	RPD		Mercury (Hg)	2025/08/01	NC		%	20
9981671	SB5	Matrix Spike		Chromium (VI)	2025/08/01		94	%	80 - 120
9981671	SB5	Spiked Blank		Chromium (VI)	2025/08/01		95	%	80 - 120



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9981671	SB5	Method Blank	Chromium (VI)	2025/08/01	<0.50		ug/L	
9981671	SB5	RPD	Chromium (VI)	2025/08/01	NC		%	20
9982651	MPJ	Matrix Spike	Mercury (Hg)	2025/08/06		93	%	75 - 125
9982651	MPJ	Spiked Blank	Mercury (Hg)	2025/08/06		96	%	80 - 120
9982651	MPJ	Method Blank	Mercury (Hg)	2025/08/06	<0.10		ug/L	
9982651	MPJ	RPD	Mercury (Hg)	2025/08/06	NC		%	20
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 $\leq 2 \times$ RDL). (1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.								



Bureau Veritas Job #: C591884
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink that reads "Louise A. Harding".

Louise Harding, Scientific Specialist

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

2025/07/29 14:37

CHAIN OF CUSTODY RECORD

Page 10

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #21644 ATKINSREALIS CANADA INC.		Company Name: #19080 AtkinsRéalis		Quotation #: C31302		Bureau Veritas Job #:	
Attention: Accounts Payable		Attention: Sean Gariano		P.O. #: 49644		Bottle Order #:	
Address: 455 René-Lévesque Blvd. West		Address: 1145 Hunt Club Road Suite 120		Project: 705228		1053871	
Montreal QC H2Z 1Z3		Nepean ON K1V 0Y3		Project Name:		COC #:	
Tel: (613) 226-2456		Tel: (613) 226-2456		Site #: C10231		Project Manager:	
Email: payables@atkinsrealis.com		Email: sean.gariano@atkinsrealis.com; ON_LabData@snclava		Sampled By:		Babandeep Kaur	
UNREGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required:	
Regulation 153 (2011)				Field Filtered (please circle):		Please provide advance notice for rush projects	
Other Regulations				Metals (Hg, Cr, V)		Regular (Standard) TAT:	
Special Instructions				O Reg 153 VOCS by HS & F1-F4		(will be applied if Rush TAT is not specified):	
Regulation 153 (2011)				O Reg 153 PAHs		Standard TAT = 5-7 Working days for most tests.	
Other Regulations				O Reg 153 Metals & Inorganics Pig		Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		Job Specific Rush TAT (if applies to entire submission)	
Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		Date Required: Time Required:	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		Rush Confirmation Number: (call lab for #)	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		# of Bottles	
Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		Comments	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		Received in Ottawa	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		Custody Seal	
Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		Present	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		Intact	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		Yes	
Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		No	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		White: Bureau Veritas Yellow: Client	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
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Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
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Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Special Instructions				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
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Regulation 153 (2011)				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCs.	
Other Regulations				O Reg 153 PHCs, BTEX/F1-F4		SAMPLER CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUST	



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053871-02-01

Attention: Christopher Williams

ATKINSRÉALIS CANADA INC.
1425 Cormorant Road
Unit 204
Ancaster, ON
Canada L9G 4V5

Report Date: 2025/08/06
Report #: R8588497
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C591879

Received: 2025/07/29, 14:37

Sample Matrix: Water
Samples Received: 2

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
1,3-Dichloropropene Sum (1)	2	N/A	2025/08/05	EPA 8260C m
Volatile Organic Compounds and F1 PHCs (1)	2	N/A	2025/08/04 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, EPA, APHA or the Quebec Ministry of Environment.

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, 6740 Campobello Rd , Mississauga, ON, L5N 2L8



Your P.O. #: 49644
Your Project #: 705228
Site#: C10231
Your C.O.C. #: C#1053871-02-01

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1425 Cormorant Road
Unit 204
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Report Date: 2025/08/06
Report #: R8588497
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C591879

Received: 2025/07/29, 14:37

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Babandeep Kaur, Project Manager 2
Email: Babandeep.kaur@bureauveritas.com
Phone# (613) 274-0573

=====

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VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		ATNB06	ATNB07		
Sampling Date		2025/07/29 09:55	2025/07/29 09:55		
COC Number		C#1053871-02-01	C#1053871-02-01		
	UNITS	FIELD BLANK-072925	TRIP BLANK-072925	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	9979641
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	9980521
Benzene	ug/L	<0.17	<0.17	0.17	9980521
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	9980521
Bromoform	ug/L	<1.0	<1.0	1.0	9980521
Bromomethane	ug/L	<0.50	<0.50	0.50	9980521
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	9980521
Chlorobenzene	ug/L	<0.20	<0.20	0.20	9980521
Chloroform	ug/L	<0.20	<0.20	0.20	9980521
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	9980521
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	9980521
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	9980521
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	9980521
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	9980521
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	9980521
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	9980521
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	9980521
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	9980521
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	9980521
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	9980521
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	9980521
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	9980521
Ethylbenzene	ug/L	<0.20	<0.20	0.20	9980521
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	9980521
Hexane	ug/L	<1.0	<1.0	1.0	9980521
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	9980521
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	9980521
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	9980521
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	9980521
Styrene	ug/L	<0.50	<0.50	0.50	9980521
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	9980521
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	9980521
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	9980521
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



Bureau Veritas Job #: C591879
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		ATNB06	ATNB07		
Sampling Date		2025/07/29 09:55	2025/07/29 09:55		
COC Number		C#1053871-02-01	C#1053871-02-01		
	UNITS	FIELD BLANK-072925	TRIP BLANK-072925	RDL	QC Batch
Toluene	ug/L	<0.20	<0.20	0.20	9980521
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	9980521
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	9980521
Trichloroethylene	ug/L	<0.20	<0.20	0.20	9980521
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	9980521
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	9980521
p+m-Xylene	ug/L	<0.20	<0.20	0.20	9980521
o-Xylene	ug/L	<0.20	<0.20	0.20	9980521
Total Xylenes	ug/L	<0.20	<0.20	0.20	9980521
F1 (C6-C10)	ug/L	<25	<25	25	9980521
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	9980521
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	100	100		9980521
D4-1,2-Dichloroethane	%	98	97		9980521
D8-Toluene	%	99	100		9980521
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



Bureau Veritas Job #: C591879
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

TEST SUMMARY

Bureau Veritas ID: ATNB06
Sample ID: FIELD BLANK-072925
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/05	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980521	N/A	2025/08/04	Gladys Guerrero

Bureau Veritas ID: ATNB07
Sample ID: TRIP BLANK-072925
Matrix: Water

Collected: 2025/07/29
Shipped:
Received: 2025/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9979641	N/A	2025/08/05	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9980521	N/A	2025/08/04	Gladys Guerrero



Bureau Veritas Job #: C591879
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	13.3°C
-----------	--------

Results relate only to the items tested.



Bureau Veritas Job #: C591879

Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.

Client Project #: 705228

Your P.O. #: 49644

Sampler Initials: SG

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9980521	GGU	Matrix Spike	4-Bromofluorobenzene	2025/08/04		100	%	70 - 130
			D4-1,2-Dichloroethane	2025/08/04		101	%	70 - 130
			D8-Toluene	2025/08/04		101	%	70 - 130
			Acetone (2-Propanone)	2025/08/04		100	%	60 - 140
			Benzene	2025/08/04		96	%	70 - 130
			Bromodichloromethane	2025/08/04		91	%	70 - 130
			Bromoform	2025/08/04		90	%	70 - 130
			Bromomethane	2025/08/04		91	%	60 - 140
			Carbon Tetrachloride	2025/08/04		101	%	70 - 130
			Chlorobenzene	2025/08/04		92	%	70 - 130
			Chloroform	2025/08/04		94	%	70 - 130
			Dibromochloromethane	2025/08/04		97	%	70 - 130
			1,2-Dichlorobenzene	2025/08/04		100	%	70 - 130
			1,3-Dichlorobenzene	2025/08/04		102	%	70 - 130
			1,4-Dichlorobenzene	2025/08/04		102	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2025/08/04		112	%	60 - 140
			1,1-Dichloroethane	2025/08/04		92	%	70 - 130
			1,2-Dichloroethane	2025/08/04		100	%	70 - 130
			1,1-Dichloroethylene	2025/08/04		97	%	70 - 130
			cis-1,2-Dichloroethylene	2025/08/04		104	%	70 - 130
			trans-1,2-Dichloroethylene	2025/08/04		100	%	70 - 130
			1,2-Dichloropropane	2025/08/04		97	%	70 - 130
			cis-1,3-Dichloropropene	2025/08/04		88	%	70 - 130
			trans-1,3-Dichloropropene	2025/08/04		96	%	70 - 130
			Ethylbenzene	2025/08/04		95	%	70 - 130
			Ethylene Dibromide	2025/08/04		99	%	70 - 130
			Hexane	2025/08/04		104	%	70 - 130
			Methylene Chloride(Dichloromethane)	2025/08/04		93	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2025/08/04		96	%	60 - 140
			Methyl Isobutyl Ketone	2025/08/04		96	%	70 - 130
			Methyl t-butyl ether (MTBE)	2025/08/04		98	%	70 - 130
			Styrene	2025/08/04		95	%	70 - 130
			1,1,1,2-Tetrachloroethane	2025/08/04		103	%	70 - 130
			1,1,2,2-Tetrachloroethane	2025/08/04		90	%	70 - 130
			Tetrachloroethylene	2025/08/04		98	%	70 - 130
			Toluene	2025/08/04		96	%	70 - 130
			1,1,1-Trichloroethane	2025/08/04		94	%	70 - 130
			1,1,2-Trichloroethane	2025/08/04		98	%	70 - 130
			Trichloroethylene	2025/08/04		99	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2025/08/04		99	%	70 - 130
			Vinyl Chloride	2025/08/04		96	%	70 - 130
			p+m-Xylene	2025/08/04		95	%	70 - 130
			o-Xylene	2025/08/04		102	%	70 - 130
			F1 (C6-C10)	2025/08/04		94	%	60 - 140
9980521	GGU	Spiked Blank	4-Bromofluorobenzene	2025/08/03		100	%	70 - 130
			D4-1,2-Dichloroethane	2025/08/03		102	%	70 - 130
			D8-Toluene	2025/08/03		101	%	70 - 130
			Acetone (2-Propanone)	2025/08/03		98	%	60 - 140
			Benzene	2025/08/03		99	%	70 - 130
			Bromodichloromethane	2025/08/03		95	%	70 - 130
			Bromoform	2025/08/03		96	%	70 - 130
			Bromomethane	2025/08/03		94	%	60 - 140
Carbon Tetrachloride	2025/08/03		104	%	70 - 130			



Bureau Veritas Job #: C591879
Report Date: 2025/08/06

ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Chlorobenzene	2025/08/03		94	%	70 - 130
				Chloroform	2025/08/03		96	%	70 - 130
				Dibromochloromethane	2025/08/03		101	%	70 - 130
				1,2-Dichlorobenzene	2025/08/03		101	%	70 - 130
				1,3-Dichlorobenzene	2025/08/03		102	%	70 - 130
				1,4-Dichlorobenzene	2025/08/03		101	%	70 - 130
				Dichlorodifluoromethane (FREON 12)	2025/08/03		116	%	60 - 140
				1,1-Dichloroethane	2025/08/03		94	%	70 - 130
				1,2-Dichloroethane	2025/08/03		103	%	70 - 130
				1,1-Dichloroethylene	2025/08/03		99	%	70 - 130
				cis-1,2-Dichloroethylene	2025/08/03		106	%	70 - 130
				trans-1,2-Dichloroethylene	2025/08/03		100	%	70 - 130
				1,2-Dichloropropane	2025/08/03		100	%	70 - 130
				cis-1,3-Dichloropropene	2025/08/03		91	%	70 - 130
				trans-1,3-Dichloropropene	2025/08/03		99	%	70 - 130
				Ethylbenzene	2025/08/03		96	%	70 - 130
				Ethylene Dibromide	2025/08/03		102	%	70 - 130
				Hexane	2025/08/03		106	%	70 - 130
				Methylene Chloride(Dichloromethane)	2025/08/03		96	%	70 - 130
				Methyl Ethyl Ketone (2-Butanone)	2025/08/03		96	%	60 - 140
				Methyl Isobutyl Ketone	2025/08/03		100	%	70 - 130
				Methyl t-butyl ether (MTBE)	2025/08/03		101	%	70 - 130
				Styrene	2025/08/03		96	%	70 - 130
				1,1,1,2-Tetrachloroethane	2025/08/03		107	%	70 - 130
				1,1,2,2-Tetrachloroethane	2025/08/03		94	%	70 - 130
				Tetrachloroethylene	2025/08/03		97	%	70 - 130
				Toluene	2025/08/03		98	%	70 - 130
				1,1,1-Trichloroethane	2025/08/03		97	%	70 - 130
				1,1,2-Trichloroethane	2025/08/03		102	%	70 - 130
				Trichloroethylene	2025/08/03		100	%	70 - 130
				Trichlorofluoromethane (FREON 11)	2025/08/03		101	%	70 - 130
				Vinyl Chloride	2025/08/03		99	%	70 - 130
				p+m-Xylene	2025/08/03		97	%	70 - 130
				o-Xylene	2025/08/03		104	%	70 - 130
				F1 (C6-C10)	2025/08/03		93	%	60 - 140
9980521	GGU		Method Blank	4-Bromofluorobenzene	2025/08/03		100	%	70 - 130
				D4-1,2-Dichloroethane	2025/08/03		100	%	70 - 130
				D8-Toluene	2025/08/03		100	%	70 - 130
				Acetone (2-Propanone)	2025/08/03	<10		ug/L	
				Benzene	2025/08/03	<0.17		ug/L	
				Bromodichloromethane	2025/08/03	<0.50		ug/L	
				Bromoform	2025/08/03	<1.0		ug/L	
				Bromomethane	2025/08/03	<0.50		ug/L	
				Carbon Tetrachloride	2025/08/03	<0.20		ug/L	
				Chlorobenzene	2025/08/03	<0.20		ug/L	
				Chloroform	2025/08/03	<0.20		ug/L	
				Dibromochloromethane	2025/08/03	<0.50		ug/L	
				1,2-Dichlorobenzene	2025/08/03	<0.50		ug/L	
				1,3-Dichlorobenzene	2025/08/03	<0.50		ug/L	
				1,4-Dichlorobenzene	2025/08/03	<0.50		ug/L	
				Dichlorodifluoromethane (FREON 12)	2025/08/03	<1.0		ug/L	
				1,1-Dichloroethane	2025/08/03	<0.20		ug/L	
				1,2-Dichloroethane	2025/08/03	<0.50		ug/L	



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ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				1,1-Dichloroethylene	2025/08/03	<0.20		ug/L	
				cis-1,2-Dichloroethylene	2025/08/03	<0.50		ug/L	
				trans-1,2-Dichloroethylene	2025/08/03	<0.50		ug/L	
				1,2-Dichloropropane	2025/08/03	<0.20		ug/L	
				cis-1,3-Dichloropropene	2025/08/03	<0.30		ug/L	
				trans-1,3-Dichloropropene	2025/08/03	<0.40		ug/L	
				Ethylbenzene	2025/08/03	<0.20		ug/L	
				Ethylene Dibromide	2025/08/03	<0.20		ug/L	
				Hexane	2025/08/03	<1.0		ug/L	
				Methylene Chloride(Dichloromethane)	2025/08/03	<2.0		ug/L	
				Methyl Ethyl Ketone (2-Butanone)	2025/08/03	<10		ug/L	
				Methyl Isobutyl Ketone	2025/08/03	<5.0		ug/L	
				Methyl t-butyl ether (MTBE)	2025/08/03	<0.50		ug/L	
				Styrene	2025/08/03	<0.50		ug/L	
				1,1,1,2-Tetrachloroethane	2025/08/03	<0.50		ug/L	
				1,1,2,2-Tetrachloroethane	2025/08/03	<0.50		ug/L	
				Tetrachloroethylene	2025/08/03	<0.20		ug/L	
				Toluene	2025/08/03	<0.20		ug/L	
				1,1,1-Trichloroethane	2025/08/03	<0.20		ug/L	
				1,1,2-Trichloroethane	2025/08/03	<0.50		ug/L	
				Trichloroethylene	2025/08/03	<0.20		ug/L	
				Trichlorofluoromethane (FREON 11)	2025/08/03	<0.50		ug/L	
				Vinyl Chloride	2025/08/03	<0.20		ug/L	
				p+m-Xylene	2025/08/03	<0.20		ug/L	
				o-Xylene	2025/08/03	<0.20		ug/L	
				Total Xylenes	2025/08/03	<0.20		ug/L	
				F1 (C6-C10)	2025/08/03	<25		ug/L	
				F1 (C6-C10) - BTEX	2025/08/03	<25		ug/L	
9980521	GGU	RPD		Acetone (2-Propanone)	2025/08/04	NC		%	30
				Benzene	2025/08/04	NC		%	30
				Bromodichloromethane	2025/08/04	NC		%	30
				Bromoform	2025/08/04	NC		%	30
				Bromomethane	2025/08/04	NC		%	30
				Carbon Tetrachloride	2025/08/04	NC		%	30
				Chlorobenzene	2025/08/04	NC		%	30
				Chloroform	2025/08/04	NC		%	30
				Dibromochloromethane	2025/08/04	NC		%	30
				1,2-Dichlorobenzene	2025/08/04	NC		%	30
				1,3-Dichlorobenzene	2025/08/04	NC		%	30
				1,4-Dichlorobenzene	2025/08/04	NC		%	30
				Dichlorodifluoromethane (FREON 12)	2025/08/04	NC		%	30
				1,1-Dichloroethane	2025/08/04	NC		%	30
				1,2-Dichloroethane	2025/08/04	NC		%	30
				1,1-Dichloroethylene	2025/08/04	NC		%	30
				cis-1,2-Dichloroethylene	2025/08/04	NC		%	30
				trans-1,2-Dichloroethylene	2025/08/04	NC		%	30
				1,2-Dichloropropane	2025/08/04	NC		%	30
				cis-1,3-Dichloropropene	2025/08/04	NC		%	30
				trans-1,3-Dichloropropene	2025/08/04	NC		%	30
				Ethylbenzene	2025/08/04	NC		%	30
				Ethylene Dibromide	2025/08/04	NC		%	30
				Hexane	2025/08/04	NC		%	30
				Methylene Chloride(Dichloromethane)	2025/08/04	NC		%	30



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ATKINSRÉALIS CANADA INC.
Client Project #: 705228
Your P.O. #: 49644
Sampler Initials: SG

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Methyl Ethyl Ketone (2-Butanone)	2025/08/04	NC		%	30
				Methyl Isobutyl Ketone	2025/08/04	NC		%	30
				Methyl t-butyl ether (MTBE)	2025/08/04	NC		%	30
				Styrene	2025/08/04	NC		%	30
				1,1,1,2-Tetrachloroethane	2025/08/04	NC		%	30
				1,1,2,2-Tetrachloroethane	2025/08/04	NC		%	30
				Tetrachloroethylene	2025/08/04	NC		%	30
				Toluene	2025/08/04	NC		%	30
				1,1,1-Trichloroethane	2025/08/04	NC		%	30
				1,1,2-Trichloroethane	2025/08/04	NC		%	30
				Trichloroethylene	2025/08/04	NC		%	30
				Trichlorofluoromethane (FREON 11)	2025/08/04	NC		%	30
				Vinyl Chloride	2025/08/04	NC		%	30
				p+m-Xylene	2025/08/04	NC		%	30
				o-Xylene	2025/08/04	NC		%	30
				Total Xylenes	2025/08/04	NC		%	30
				F1 (C6-C10)	2025/08/04	NC		%	30
				F1 (C6-C10) - BTEX	2025/08/04	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 $\leq 2 \times$ RDL).



Bureau Veritas Job #: C591879
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ATKINSRÉALIS CANADA INC.
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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

C591879
2025/07/29 14:37

Bureau Veritas
36 Antares Dr Unit 100, Nepean, Ontario Canada K2E 7W5 Tel: (613) 274-0573 Toll-free: 800-563-6266 Fax: (613) 274-0574 www.bvna.com

CHAIN OF CUSTODY RECORD

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INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #21644 ATKINSREALIS CANADA INC.		Company Name: #19080 AtkinsRealis		Quotation #: C31302		Bureau Veritas Job #:	
Attention: Accounts Payable		Attention: Sean Gariano		P.O. #: 49644		Bottle Order #:	
Address: 455 René-Lévesque Blvd. West		Address: 1145 Hunt Club Road Suite 120		Project: 705228		1053871	
Montreal QC H2Z 1Z3		Nepean ON K1V 0Y3		Project Name: C10231		COC #:	
Tel: (613) 226-2456		Tel: (613) 226-2456		Site #: C10231		Project Manager:	
Email: payables@atkinsrealis.com		Email: sean.gariano@atkinsrealis.com		Sampled By: ON_LabData@snclava		Balandeep Kaur	
MOOREGATORY DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)			
Regulation 153 (2011)		Other Regulations		Special Instructions		Turnaround Time (TAT) Required:	
☐ Table 1 ☐ Rusp/Par ☒ Medium/Fine		☐ CCME ☐ Sanitary Sewer Bylaw				Regular (Standard) TAT:	
☐ Table 2 ☒ Ind/Comm ☐ Coarse		☐ Reg 558 ☐ Storm Sewer Bylaw				(will be applied if Rush TAT is not specified):	
☐ Table 3 ☐ Agri/Other ☐ For RSC		☐ MISA ☐ Municipality				Standard TAT = 5-7 Working days for most tests.	
☒ Table 4		☐ PWQO ☐ Reg 405 Table				Please note: Standard TAT for certain tests such as BOD and Coliforms/Furans are > 5 days - contact your Project Manager for details.	
Include Criteria on Certificate of Analysis (Y/N)?						Job Specific Rush TAT (if applies to entire submission)	
						Date Required: Time Received:	
						Rush Confirmation Number: (call us for E)	
Sample Barcode Label		Sample (Location) Identification		Date Sampled		# of Bottles	
1		FIELD BLANK-072925		Tue Jul 29/25 9:55		2	
2		TRIP BLANK-072925		Tue Jul 29/25 9:55		2	
3							
4							
5							
6							
7							
8							
9							
10							
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)		Time		# jars used and not submitted	
Sean Gariano		25/07/29		14:00		Laboratory Use Only	
RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)		Time		Time Sensitive	
Amanda Santiago		2025/07/29		14:32		Temperature (°C) on Receipt	
						13.14.13 re	
						Custody Seal	
						Present	
						Intact	
						Yes	
						No	
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S 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.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.						White: Bureau Veritas Yellow: Client	
* 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.						SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS	
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.							

Bureau Veritas Canada (2019) Inc.

AtkinsRéalis



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