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ADDENDUM 2 TO THE REMEDIAL ACTION PLAN PROPOSING REVISED PETROLEUM HYDROCARBON SOIL QUALITY OBJECTIVES, FORMER UNIPKAT I-22 WELLSITE REMEDIATION PROJECT UNDER WATER LICENCE N5L8-1848, INUVIALUIT SETTLEMENT REGION, NORTHWEST TERRITORIES

INTRODUCTION

On behalf of Shell Canada Limited, WSP Canada Inc. (WSP) submitted a remedial action plan (RAP) and Addendum 1 to the RAP to the Inuvialuit Water Board (IWB) in May and September 2025, respectively, outlining the proposed measures to mitigate potential human health and ecological risks related to residual petroleum hydrocarbons (PHCs) and barite in soil at the former Unipkat I-22 wellsite (the Site). The Site is approximately 115 kilometres (km) northwest of Inuvik, Northwest Territories, in the Inuvialuit Settlement Region (ISR) (69°11'36.07"N latitude and 135°20'33.88"W longitude; Figure 1). The RAP (WSP 2025a) presented soil quality objectives (SQOs) to be applied during site remediation, based on an assessment wherein contaminants of concern (CoCs) were established in tandem with relevant receptors and exposure pathways. A RAP addendum (WSP 2025b) was subsequently submitted to the IWB in September 2025 to provide additional information/clarifications prior to the issuance of Water Licence N5L8-1848 (IWB 2025), which specifies the terms and conditions under which the remediation (and associated activities) may proceed. Additional investigation and data analysis were completed in summer 2025 and winter 2026 as part of remedial design. The results of these investigations have refined the understanding of PHC and barite distribution and potential migration at the Site, which has resulted in re-examination of the rationale for the depth-based application of the PHC SQOs presented in the 2025 RAP. Figure 2 shows the locations of the boreholes drilled at the Site historically. PHC distribution is visualized in the cross-sections provided in Figures 3 and 4. Further context is provided in the sections below.

Note that the soil with barite concentrations exceeding the SQOs, as presented in the RAP (WSP 2025a), was excavated and transported off site in April 2026 for disposal at Secure Energy Service's Fox Creek East Industrial Landfill northwest of Whitecourt, Alberta. Further details on the barite soil remediation will be provided to the IWB separately (i.e., as part of the 2026 annual reporting).

EXISTING SOIL QUALITY OBJECTIVES

As stated, the 2025 RAP included an exposure assessment to identify the PHC parameters in soil warranting remedial action at the Site, according to the risk paradigm shown in Figure A. For a risk to be present:

- 1) The CoCs must be present in the environment at concentrations that may pose a risk.
- 2) A receptor, whether human or ecological, must be present.
- 3) There must be a pathway via which a receptor may be exposed to the CoC.

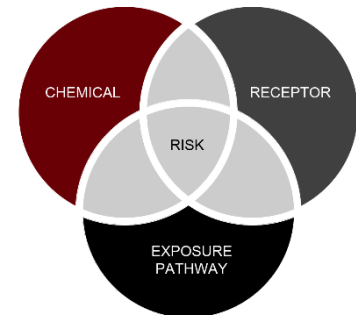


Figure A: Risk Paradigm

In consideration of current and future residential/parkland land use, several exposure pathways were eliminated. The rationale provided for doing so is summarized in Table A, per the RAP (WSP 2025a).

Table A: Operable Exposure Pathway Summary - Former Unipkat I-22 Wellsite Remediation

Exposure Pathway	Status	Rationale
Human Health		
Direct Contact	Retained	- retained for casual site visitors from the ISR; and - applicable to a depth of 1.5 metres below ground surface (mbgs) based on the maximum reasonable depth of hand excavation (based on the presence of permafrost) or future incremental soil exposure because of erosion/scouring.
Consumption of potable groundwater	Not retained as a driver for remediation	- absence of domestic water wells within 1,500 km of the Site; - low likelihood of suprapermafrost groundwater yielding sufficient supply for domestic use; and - absence of residents at the Site due to remote location.
Vapour inhalation	Not retained as a driver for remediation	- absence of residents at the Site due to remote location; and - soft ground conditions would likely require structures to be elevated off the ground surface, thus mitigating vapour intrusion risks (e.g., for hunters/trappers at the Site for prolonged durations).
Ecological		
Direct soil contact	Not retained as a driver for remediation	- Thickness of soil horizon that can support plant growth/rooting is limited by the presence of permafrost within 1.5 metre (m) of ground surface^a. - Inhibition of vegetative growth at the Site has been influenced primarily by historical disturbances (i.e., site development, past investigation and remediation efforts) rather than by the presence of localized shallow PHCs.
Protection of freshwater aquatic life (FAL)	Not retained as a driver for remediation	- Groundwater quality is not a driver for remediation given the permafrost environment; it is only intermittently present in monitoring wells screened at depths consistent with the soil plume (i.e., depths ranging from 0.5 to 4.0 mbgs). - When sufficient groundwater has been present for sampling, dissolved PHC concentrations were sporadically detectable and concentrations generally below generic guidelines.

Exposure Pathway	Status	Rationale
Wildlife watering	Not retained as a driver for remediation	Inoperable per the rationale provided for protection of FAL
Wildlife and avifauna soil and food ingestion	Retained	Operable to a depth of 0.5 mbgs based on accessibility to terrestrial receptors
Other		
Off-site migration	Not retained as a driver for remediation	Applies only where impacted soil may be transferred off site to a neighbouring property with a more sensitive land use. Land use at the Site is consistent with the surrounding area.
Management limits	Retained for only one scenario	Only the management limit pertaining to potential light non-aqueous phase liquid (LNAPL) presence was retained for PHC fraction F2. Management limits related to the following were eliminated: worker risks due to entry into trenches, fire and explosion risks, and technological factors related to aesthetics, effects on buried infrastructure and limitations on the effectiveness of bioremediation approaches.

Note:

^a Studies conducted in the development of the Abandoned Military Site Remediation Protocol (AMSRP) Volumes I (Main Report) and II (Technical Supporting Documentation) (INAC 2008a,b) indicate that root penetration is limited to the upper 0.1 m of soil when permafrost is present between 1 and 2 mbgs.

Based on the exposure assessment, only PHC Fraction F2 and barite-barium were retained as CoCs at the Site. Consistent with the protocol developed by the Department of National Defence and Nunavut Tunngavik Inc. Environmental Working Group, and ensuing risk assessment work undertaken as part of the remediation of the former Arctic Distant Early Warning (DEW) Line sites, Type B hydrocarbons were also considered. Type B hydrocarbons are roughly equivalent to the sum of PHC Fractions F1 to F3, generalized to represent lighter fuels such as gasoline, jet fuel and diesel that may be mobile in the subsurface, if PHC saturation is high enough. The label Type A hydrocarbons (i.e., roughly the sum of PHC Fractions F3 and F4), in contrast, was given to lubricating and motor oils that are not expected to be mobile in the environment.¹ This general categorization based on mobility was endorsed by stakeholders including various Inuvialuit groups (INAC 2008a,b). Exposure pathways considered for Type B hydrocarbons included protection of FAL, protection of terrestrial wildlife (i.e., wildlife and avifauna soil and food ingestion, per Table A) and the management limit pertaining to LNAPL presence, off-site migration and aesthetics.

Table B presents the SQOs for PHC Fraction F2 and Type B hydrocarbons, per the RAP (WSP 2025a).

¹ PHCs are designated Type A hydrocarbons when the sum of PHC Fractions F3 and F4 comprises more than 70% of the total PHC (sum of PHC Fractions F1 to F4) concentration and where the concentration of PHC Fraction F2 is less than the concentration of PHC Fraction F4.

Table B: SQOs as Presented in RAP

CoC	Guideline	Application Depth (mbgs)	Exposure Pathway	Source
PHC Fraction F2	9,800	0 – 0.5 ^a	Wildlife and avifauna soil and food ingestion	EPA 2024
	10,000	>0.5	Management limit	CCME 2008
Type B Hydrocarbons	2,500 ^b	0 – 0.5	Wildlife and avifauna soil and food ingestion	INAC 2008a
	5,000	0.5 – 3.0	Management limit	INAC 2008a
	10,000	>3.0	Management limit	CCME 2008

Notes:

^a Tables E and F in the RAP (WSP 2025a) indicated applicability of the SQO for terrestrial wildlife protection was to 0.5 mbgs. It was erroneously listed as applicable to 1.5 mbgs in Table I of the RAP. The depth of application has been clarified in Tables A and B, herein.

^b site-specific target level based on evaluation of sensitive terrestrial wildlife receptors at the Arctic DEW line sites

> - greater than

As shown in Table B, the RAP (WSP 2025a) indicated a stratified approach to the application of management limits, one for PHC Fraction F2 and the others for Type B hydrocarbons. These management limits, per the Canadian Council of Ministers of the Environment (CCME) (2008), were developed to account for risks that may be associated with the presence of PHCs at depths below those for which direct contact exposures, human or ecological, are likely. Their application is typically associated with elimination of the ecological direct soil contact guidelines; however, the management limits have elements that are based on both human health and ecological protection. The typically recommended approach is to apply exposure pathway-specific guidelines to a depth of 1.5 mbgs, based on jurisdiction and professional judgment (CCME 2008, GNWT 2023). The AMSRP (INAC 2008a,b) indicates that the management limit for Type B hydrocarbons may be applied at depths below 0.5 mbgs (i.e., deeper than the depth at which the wildlife and avifauna soil and food ingestion exposure pathway is considered operable). The application of the management limit is to be based on professional judgment in consideration of site conditions, including the presence of permafrost (INAC 2008b).

The CCME management limit shown in Table B for PHC Fraction F2 applies to potential subsurface LNAPL mobility and aesthetic impacts based on research indicating that if LNAPL mobility is observed, it generally corresponds to total PHC concentrations between 20,000 and 30,000 milligrams per kilogram (mg/kg), depending on soil and fuel types (Mercer and Cohen 1990, CCME 2008). Mobility means that if a hole were dug into the footprint of the LNAPL, the oil saturation of the LNAPL is great enough that it would flow into the hole. Mobility does not mean LNAPL is spreading. Although there are many factors that contribute to observation of a distinct LNAPL phase in soil, the following is generally true: the lighter the fuel and coarser the soil, the greater the potential for LNAPL mobility. At the Site, fine-grained soils dominate (clays and silts), reducing the potential for LNAPL mobility.

To account for uncertainties in LNAPL mobility related of potential variability in fuel and soil composition in establishment of a generic management limit, CCME recommended adopting a limit of 2% total PHC in soil (i.e., 20,000 mg/kg, the low end of the saturation range mentioned above), of which not more than half (10,000 mg/kg)

may be assumed to be the total of PHC Fractions F1 to F3 (C₆-C₃₄) and the remainder in the PHC Fraction F4 (C_{>34}) range. The only distinction made for the increased LNAPL mobility based on soil type was for lighter-end PHCs, in the PHC Fraction F1 range. For coarse-grained soils, an upper limit of 700 mg/kg was established. For fine-grained soil, the limit was 800 mg/kg. This management limit for PHC Fraction F1 was excluded at the Site based on the historical absence of volatile (lighter-end) PHCs in soil and groundwater (WSP 2025a). On average, Type B hydrocarbons detected in soil at the Site are composed of approximately <4% PHC Fraction F1, 76% PHC Fraction F2 and 21% PHC Fraction F3. The contribution of PHC Fraction F2 increases as the concentration of PHC Fractions F1 to F3 increase in soil at the Site. Where PHC Fractions F1 to F3 concentrations are greater than or equal to 10,000 mg/kg, 96% is PHC Fraction F2 (C₁₀-C₁₆). As such, it is appropriate to assign the 10,000 mg/kg management limit to PHC Fraction F2 alone, as shown in Table B.

The 5,000 mg/kg AMSRP management limit applied to Type B hydrocarbons also applies to LNAPL mobility and is based on the same research referenced by CCME (2008) regarding PHC pore space saturation data for fuel middle distillates and fuel oils in various thawed soil types in non-Arctic environments. The rationale for the 50% decrease in the AMSRP management limit is a conservative assumption about potentially increased mobility at the DEW line sites due to the prevalence of coarse-grained surface soils. Soil at the DEW line sites was comprised of 1% to 10% silt, 15% to 50% sand and 20% to 80% gravel. In contrast, the former Unipkat I-22 wellsite is in a deltaic environment that is predominated by fine-grained sediments. Grain size analysis was completed on 23 soil samples collected from the upper 3 m of the soil profile in the proposed remedial footprint/soil PHC plume. The analysis indicates that the percentage fines (silt and clay) in the samples ranges from 77% to 100% (mean 93%). Based on these grain size analyses, presented in the attached Table 1, applying the AMSRP management limit to mitigate potential LNAPL mobility is overly conservative based on the following supporting evidence:

- There is an extensive soil analytical dataset for the Site, with the first reported investigation completed by others in 2007 (IEG 2009). Additional assessment was completed in 2010 (IEG 2012a), ahead of 2011 partial (Stage 1) remediation of the Site (IEG 2012b). During these, and subsequent soil (and/or groundwater) sampling efforts by others in 2012 (IEG 2012c), 2013 (IEG 2013) and 2019 (IEG 2019), the presence of mobile LNAPL was not indicated in any reports or noted on borehole logs. From 2022 to 2026, WSP has collected additional soil samples at the Site to further refine the extent of PHCs in soil for remediation purposes, obtain geotechnical data in support of the selected remedial approach, as well as to assess conditions where PHC odours have been detected outside of the historical plume footprint in tandem with historical wooden pile removal (WSP 2023a,b, 2024, 2025a,b,c, 2026). During these investigations, and consistent with those conducted historically, WSP has not observed mobile LNAPL in the soil pore space, in frozen or thawed conditions, even though detected concentrations of PHCs in soil samples collected from several borehole locations exceeded 20,000 mg/kg (i.e., within the range of concentrations CCME [2008] associated with potential LNAPL mobility for PHC Fractions F1 to F3/Type B hydrocarbons). Historical groundwater monitoring wells were screened such that mobile LNAPL, if present, could flow into the wells. No LNAPL accumulations have been noted. Where sufficient groundwater was available to be sampled, detectable concentrations of dissolved PHC Fraction F2 in the source area ranged from 0.2 to 6.1 milligrams per litre (mg/L); concentrations of this parameter in monitoring wells closer to Arvoknar Channel were not detected (i.e., <0.1 mg/L).
- The intermittent groundwater occurrence at the Site is consistent with a subsurface environment that is frozen for 60% to 70% of the year. Frozen ground conditions were verified by data collected from multiple thermistors

installed at the Site, both outside and within the planned Excavation Area, in 2026 (Figure 2). Based on the available data, at BH26-13 (north-central portion of proposed Excavation Area), the active layer extends to approximately 1.5 mbgs, with a zone at or slightly above 0 degree Celsius (°C) between 1.5 and 3.5 mbgs, and the soils are below 0°C below 3.5 mbgs. The depth of the active layer in BH26-13 is consistent with that in undisturbed areas where data show it extends to between 1.5 and 2.0 mbgs. Farther south, in the proposed Excavation Area, in BH26-14, temperatures were below 0°C for the entire depth of the borehole. This may indicate that the area around BH26-14 was open during operations (i.e., possibly part of the drilling sump in which backfill was placed in lifts that were subsequently wetted/frozen), allowing for cold temperatures/frost to penetrate the ground. Placement of cold fill in the open excavation in cold conditions may have led to colder than normal ground temperatures. During the environmental drilling, the frozen surface layer in each borehole drilled in the excavation footprint in 2026 was logged as generally well-bonded soil with no visible ice present or with distinctly orientated or random irregular ice orientations and ice coatings around organics. This layer extended to depths between 2.0 and 2.6 mbgs. This means that through and beyond the zone of PHC concentrations that exceeded SQOs, soil particles are firmly held together by ice, both giving the material significant strength and stiffness, and impeding the possible flow of groundwater and LNAPL. Regardless, when the soil samples collected through this zone thawed, no mobile LNAPL was observed.

- Soil fraction of organic carbon (f_{oc}) – data from the analysis of f_{oc} in 276 soil samples (excluding duplicates and sampling locations within the PHC soil plume) were presented in the RAP (WSP 2025a). The mean f_{oc} of the fine-grained soil at the Site is 0.016, three times higher than the default value (0.005) used to calculate the generic Tier 1 guidelines for both fine- and coarse-grained soil (CCME 2006). This indicates that PHCs/LNAPL have a greater propensity to sorb to soil particles than mobilize into the pore space and migrate than is assumed by generic guidelines. A greater degree of PHC saturation in the soil is required, compared to the assumptions made by CCME in the 10,000 mg/kg management limit for the PHC Fractions F1 to F3 (i.e., Type B hydrocarbons per AMSRP), before LNAPL becomes mobile. This is consistent with conditions at the Site (i.e., no observations of mobile LNAPL despite maximum soil PHC concentrations being more than double the management limit).

PROPOSED SQO REVISION

Based on the above rationale, 5,000 mg/kg is not a representative guideline for prediction of LNAPL mobility at the Site, nor is it practical to apply two guidelines for the same purpose. As such, it is proposed that a single management limit of 10,000 mg/kg be applied to mitigate potential LNAPL mobility at the Site (i.e., ensure remediation of the soils with the greatest PHC saturation). However, to mitigate potential aesthetic concerns (stained soil, PHC odours) for future site use, it is proposed that an SQO of 5,000 mg/kg be maintained for Type B hydrocarbons, but to a revised depth of 1.5 mbgs to match the intent of the management limits in CCME guidance. This is the maximum depth of reasonable hand excavation at the Site due to the presence of underlying permafrost. This represents only a small shift from the stratified SQO presentation in Table B, as demonstrated below.

Table C: Comparison of SQOs as Presented in RAP to Proposed Revision

CoC	Guideline	Application Depth (mbgs)	Revised Application Depth (mbgs)
PHC Fraction F2	9,800	0 – 0.5	Unchanged
	10,000	>0.5	Unchanged
Type B Hydrocarbons	2,500	0 – 0.5	Unchanged
	5,000	0.5 – 3.0	0.5 – 1.5
	10,000	>3.0	>1.5

Table 2 attached presents the PHC data for the Site, compared to the Table C SQOs. The estimated extent of remediation, planned for winter 2026/2027, is presented in Figures 2, 3 and 4. The final extent will be evaluated based on the results of confirmatory soil sampling, per the 2025 RAP (WSP 2025a).

EFFECT ON REMEDIATION EXTENT

Figure 5 provides an overlay of the estimated remedial extent provided in the RAP (WSP 2025a) and that associated with the SQO revision proposed herein. The original estimate was for an excavation 1,775 square metres (m²) in area, determined by drawing a perimeter boundary at the estimated midpoint between the furthest known locations where CoC concentrations exceeded the applied SQOs and the nearest points where CoC concentrations were confirmed to be below the applied SQOs (see Figure 9 in the RAP). Soil excavation was assumed to be continuous within the drawn boundary although laboratory analysis indicated that CoC concentrations in soil samples from several interior boreholes were below the SQOs, corresponding to an approximate area of 350 m². The remedial extent has been refined herein, as is common practice in detailed construction planning. Based on exclusion of the 350 m² from near the centre of the excavation area, the proposed SQO adjustment for Type B hydrocarbon concentrations below 1.5 mbgs, and use of more sophisticated estimating tools than were used at the time of RAP development, the revised areal extent is approximately 1,200 m² (straight cut). The revised extent of excavation was determined using Civil 3D software. For this estimate, a boundary was also established using midpoints; however, the software calculation is more precise, given it relies on mathematical algorithms applied to a network of geospatially referenced points. As shown, the revised excavation boundary extends further southwest than shown in the RAP as a result of PHC concentrations detected in soil samples collected at and around some of the wooden piles removed in winter 2026.

The estimated soil treatment volume corresponding to the area documented in the RAP was 3,800 cubic metres (m³). This volume assumed no clean overburden (surface) soil segregation and an average excavation depth of 2 mbgs based on comparative SQO exceedances within 1.5 m of grade (2,500 m³) versus those below (1,300 m³). Like the area estimate, the volume of soil to be excavated using the revised stratified guideline application approach outlined herein was calculated using Civil 3D software. The software calculates volumes based on a relationship between modelled surfaces, in this case: existing ground, derived from global positioning system/light detection and ranging survey point elevations, and projected top and base of excavation surfaces estimated from existing PHC analytical data. Based on this estimation method, the projected volume of soil

requiring treatment at the Site via enhanced thermal conduction (ETC) is in the order of 2,150 m³, assuming straight vertical wall excavation (solid boundary line shown in Figure 5, as opposed to the dashed line, which represents a 1:1 [horizontal to vertical] slope). This estimate excludes both the 350 m² area near the centre of the excavation remediation (~550 m³ based on the original estimation method) as well as an additional 800 m³ of surface soil where PHC concentrations are expected to be below SQOs. Note that the stripped clean overburden soil will be stockpiled in the field, with samples collected to verify that PHC concentrations are below SQOs. Based on the refinements, the overall reduction in volume attributable to the change in SQO application at the Site accounts for only an 8% reduction in soil treatment volume. The revised approach to SQO application is an optimization measure, which does not compromise the overall reduction in risk at the Site while also allowing for greater probability of executing the remediation entirely within one winter field season as short as 45 days.

SUMMARY

This document provides justification to adjust how the stratified SQOs for Type B hydrocarbons will be applied during the remediation of the former Unipkat I-22 wellsite; the numerical values of the SQOs remain consistent with those presented in the RAP (WSP 2025a), but the depths at which they are applied have been adjusted to better align with the intent of the referenced CCME and AMSRP guidance. This pertains specifically to the management limit of 5,000 mg/kg for Type B hydrocarbons, which will be applied from 0.5 to 1.5 mbgs rather than from 0.5 to 3.0 mbgs (WSP 2025a). This management limit was adapted from the CCME management limit for PHC Fractions F1 to F3 and is based on potential LNAPL presence and aesthetic effects (odours) and reduced from 10,000 to 5,000 mg/kg to account for coarse-grained soil at the DEW line sites. The Site has been investigated extensively and no mobile LNAPL has been observed in the soil, even where Type B hydrocarbon concentrations exceed 20,000 mg/kg. This is owed both to the natural organic content of the soil as well as the “sealed” permafrost environment. Further, the presence of shallow permafrost at the Site renders exposure of soil below 1.5 mbgs and exposure to odours improbable. Below 1.5 mbgs, the SQO for Type B hydrocarbons will be increased to 10,000 mg/kg to match the management limit for PHC Fraction F2, which comprises the majority of the concentration of Type B hydrocarbons detected at the Site.

The proposed revision will potentially result in a nominal (less than 10%) reduction in the volume of soil to be treated at the Site via ETC; however, some of this may be related to the estimation method, an expected outcome of the design process. As shown in Figure 5, the extent of the proposed remediation has been refined to exclude soil where PHC concentrations are less than SQOs (assessed both in the RAP as well as this revision) and expanded to include areas outside of the initial footprint, based on the results of the winter 2026 investigation. Confirmatory samples will be collected at the lateral and vertical extents of the excavation(s), per the RAP (WSP 2025a), to verify that PHC concentrations comply with the depth-based SQOs specified herein. The adjustment to the depth-based application of the SQOs proposed herein does not compromise the reduction in overall risk to human health and the environment in comparison to what was originally proposed in the RAP. Rather, the revised approach has refined the remedial extent, which allows for greater probability of completing the work in winter 2026/2027.

CLOSURE

Thank you in advance for your consideration of the information presented herein. If you have any questions, please contact the undersigned or Kyle Thompson (Senior Program Manager), 403-691-3174, kyle.thompson@shell.com, and Dave Kliewer (External Relations Advisor), 250-329-4094, dave.kliewer@shell.com at your convenience.

Yours truly,

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Attachments: References
Statement of Limitations
Figures
Tables

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STATEMENT OF LIMITATIONS

WSP Canada Inc. (WSP) has prepared this document in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this document. No warranty, express or implied, is made.

This document, including all text, data, tables, plans, figures, drawings and other documents contained herein, has been prepared by WSP for the sole benefit of Shell Canada Limited (Shell). It represents WSP's professional judgement based on the knowledge and information available at the time of completion. WSP is not responsible for any unauthorized use or modification of this document.

The factual data, interpretations, suggestions, recommendations, and opinions expressed in this document pertain to the specific project, site conditions, and are not applicable to any other project or site location. In order to properly understand the factual data, interpretations, suggestions, recommendations and opinions expressed in this document, reference must be made to the entire document.

Figures



- LEGEND**
- ★ SITE LOCATION
 - PUBLIC SEASONAL ICE ROAD
 - PROPOSED ICE ROAD



NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - CANADA
2. BASE MAP: EARTHSTAR GEOGRAPHICS
3. COORDINATE SYSTEM: NAD 1983 CSRS UTM ZONE 8N

CLIENT
SHELL CANADA LIMITED

PROJECT
**SITE REMEDIATION
FORMER UNIPKAT I-22 WELLSITE
INUUVIUIT SETTLEMENT REGION, NORTHWEST TERRITORIES**

TITLE
SITE LOCATION AND ACCESS PLAN

CONSULTANT	YYYY-MM-DD	2026-08-11
	DESIGNED	A.HACHKOWSKI
	PREPARED	C.MEDINA
	REVIEWED	P.KALITA
	APPROVED	A.HACHKOWSKI

PROJECT NO. CA0059450.5095	PHASE/TASK 2400.2653	REV. 0	FIGURE 1
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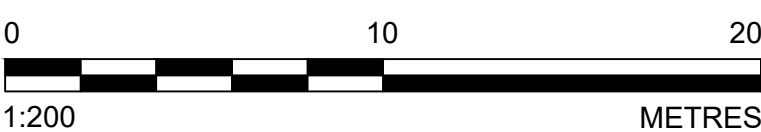




- LEGEND**
- BARITE SOIL REMEDIATION EXTENTS
 - 2027 ESTIMATED EXCAVATION FOOTPRINT, PROJECTED AT 1H:1V SLOPE
 - ⊕ BOREHOLE LOCATION
 - ⊕ BOREHOLE LOCATION (ERODED)
 - ⊕ BOREHOLE LOCATION WITH THERMISTOR
 - ⊕ MONITORING WELL (EXISTING)
 - ⊕ MONITORING WELL (DECOMMISSIONED)
 - ⊕ MONITORING WELL (DESTROYED)
 - SOIL SAMPLE TAKEN (BASE)
 - SOIL SAMPLE LOCATION (BASE) (ERODED)
 - ▲ SOIL SAMPLE TAKEN (WALL)
 - SOIL SAMPLE TAKEN DURING WOODEN PILE REMOVAL
 - SOIL SAMPLE TAKEN DURING WOODEN PILE REMOVAL (ERODED)
 - ⊕ SURFACE WATER SAMPLE LOCATION
 - ⊕ TEST PIT LOCATION
 - ⊕ THERMISTOR LOCATION
 - ⊕ SEDIMENT SAMPLE LOCATION
 - ⊕ SURFACE WATER SAMPLE LOCATION
 - ⊕ BACKGROUND SEDIMENT SAMPLE LOCATION
 - ⊕ BACKGROUND SURFACE WATER SAMPLE LOCATION
 - WELL CENTRE

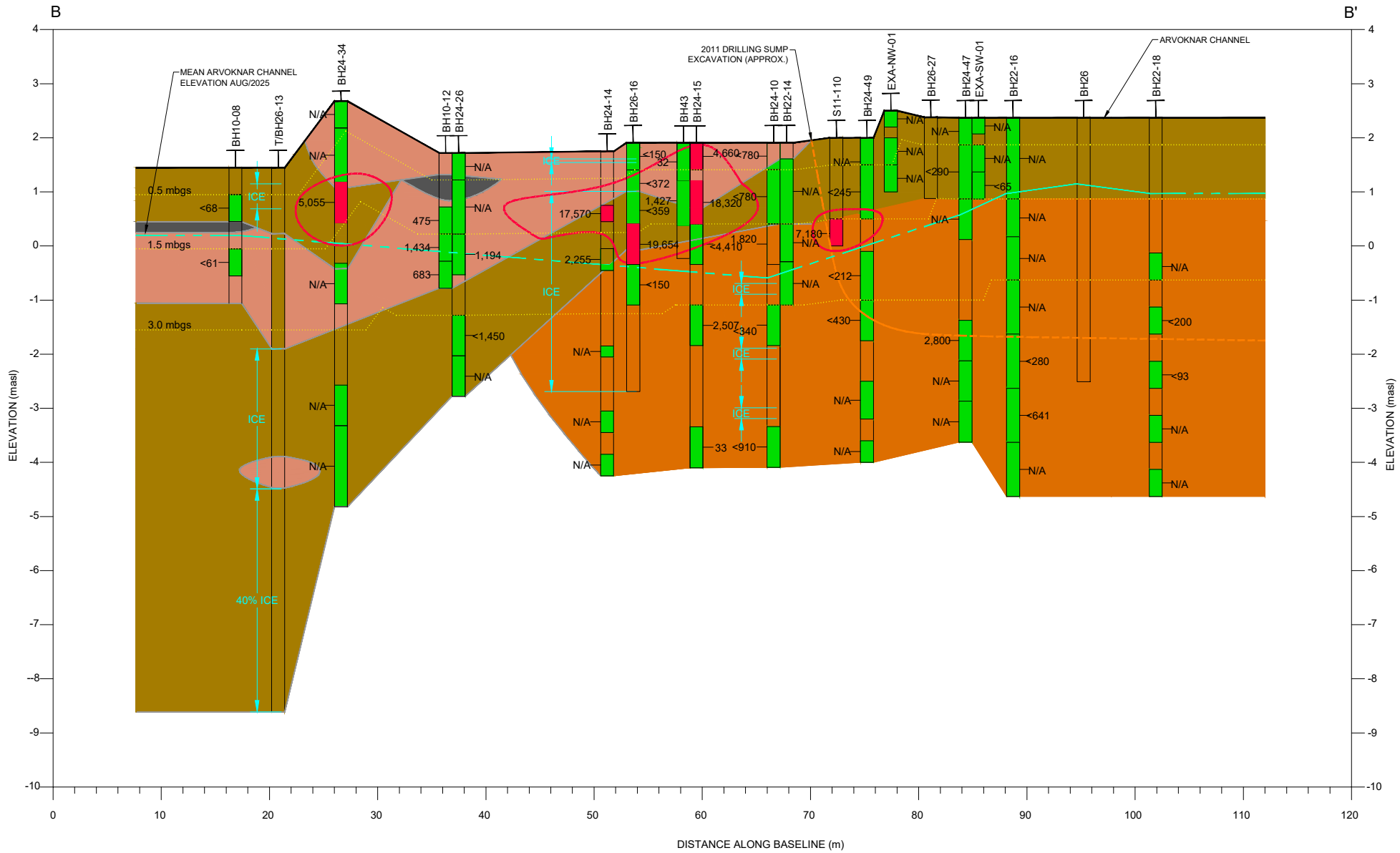
- LIST OF APPLICABLE ABBREVIATIONS**
- ETC ENHANCED THERMAL CONDUCTION
 - m METRE
 - mbgs METRES BELOW GROUND SURFACE
 - PHC PETROLEUM HYDROCARBONS
 - SQO SOIL QUALITY OBJECTIVES

- REFERENCE**
- DIMENSIONS ARE IN MILLIMETRES, ELEVATIONS AND STATIONS ARE IN METRES, UNLESS OTHERWISE NOTED.
 - COORDINATE UTM WITH NAD83 DATUM, ZONE 8, METER; CENTRAL MERIDIAN 135D W.
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 - ADDITIONAL INFORMATION OBTAINED FROM IEG CONSULTANTS LTD.; PROJECT No.: A04025A02; SCALE 1:750; DATE: 20 SEPTEMBER 2011.



CLIENT SHELL CANADA LIMITED		
PROJECT SITE REMEDIATION FORMER UNIPKAT I-22 WELLSITE INUUVIUIT SETTLEMENT REGION, NORTHWEST TERRITORIES		
TITLE HISTORICAL INVESTIGATION AREA AND PROPOSED REMEDIAL FOOTPRINT		
	CONSULTANT	YYYY-MM-DD 2026-08-11
	PREPARED	Y.WANG
	DESIGN	A.HACHKOWSKI
	REVIEW	P.KALITA
PROJECT No. CA0059450.5095	PHASE/TASK 2400-2653	Rev. 0
	APPROVED A.HACHKOWSKI	

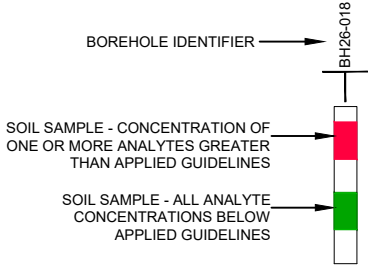
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LEGEND

- SILT/CLAYEY SILT
- LOW PLASTIC CLAY
- MEDIUM PLASTIC CLAY
- ORGANICS
- INTERPOLATED GROUND SURFACE
- INTERPOLATED GEOLOGIC BOUNDARY
- APPROXIMATE EXTENT OF PHC FRACTION F2/TYPE B HYDROCARBON CONCENTRATIONS IN SOIL ABOVE GUIDELINES
- INFERRED PERMAFROST TABLE
- 2011 SUMP EXCAVATION

ANALYTICAL DATA



<150 TYPE 'B' HYDROCARBON CONCENTRATION (mg/kg)

15% ICE ZONE OF VISIBLE ICE IN SOIL. PERCENTAGE NOTED WHERE MEASURABLE

REVISED SOIL QUALITY OBJECTIVES		
DEPTH (mbgs)	PHC FRACTION F2 (mg/kg)	TYPE 'B' HYDROCARBONS (mg/kg)
0-≤0.5	9,800	2,500
>0.5 - ≤1.5	10,000	5,000
>1.5	10,000	10,000

LIST OF APPLICABLE ABBREVIATIONS

m	METRES
masl	METRES ABOVE SEA LEVEL
mbgs	METRES BELOW GROUND SURFACE
mg/kg	MILLIGRAMS PER KILOGRAM
N/A	NOT APPLICABLE (SEE NOTE 3)
PHC	PETROLEUM HYDROCARBON
SQO	SOIL QUALITY OBJECTIVE

NOTES

- FOR CROSS-SECTION ALIGNMENTS REFER TO FIGURE 2.
- SITE SURFICIAL GEOLOGY HAS BEEN INTERPOLATED BETWEEN BOREHOLES BASED ON HISTORICAL FIELD LOGS.
- TYPE 'B' HYDROCARBONS REFERS TO THE APPROXIMATE SUM OF PHC FRACTIONS F1 TO F3. WHERE THE SUM OF PHC FRACTIONS F3 AND F4 COMPRISES MORE THAN 70% OF THE SUM OF PHC FRACTIONS F1 TO F4, TYPE 'A' HYDROCARBONS ARE IDENTIFIED. THE N/A DESIGNATION ON THE SECTIONS INDICATE TYPE 'A' HYDROCARBONS. ANALYTE CONCENTRATIONS IN THESE SAMPLES WERE BELOW SQOS, INCLUDING PHC FRACTION 2.

CLIENT
SHELL CANADA LIMITED

CONSULTANT



YYYY-MM-DD	2026-08-11
DESIGNED	A.HACHKOWSKI
PREPARED	Y.WANG
REVIEWED	P.KALITA
APPROVED	A.HACHKOWSKI

PROJECT
SITE REMEDIATION
FORMER UNIPKAT I-22 WELLSITE
INUVALUIT SETTLEMENT REGION, NORTHWEST TERRITORIES
TITLE
CROSS-SECTION B-B'

PROJECT NO.	PHASE-TASK	REV.	FIGURE
CA0059450.5095	2400-2653	0	4



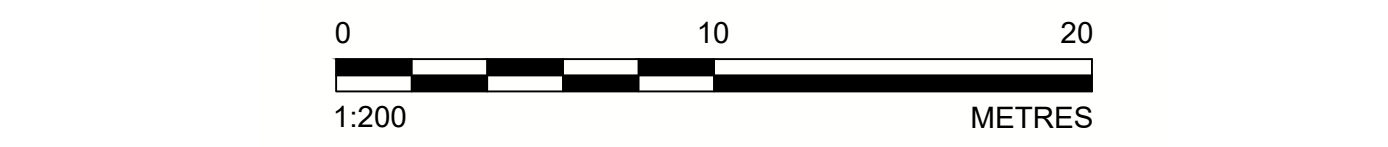
- LEGEND**
- BARITE SOIL REMEDIATION EXTENTS
 - 2027 ESTIMATED EXCAVATION FOOTPRINT, PROJECTED AT 1H:1V SLOPE
 - RAP EXCAVATION EXTENT
 - ⊕ BOREHOLE LOCATION
 - ⊖ BOREHOLE LOCATION (ERODED)
 - ⊕ BOREHOLE LOCATION WITH THERMISTOR
 - ⊕ MONITORING WELL (EXISTING)
 - ⊕ MONITORING WELL (DECOMMISSIONED)
 - ⊕ MONITORING WELL (DESTROYED)
 - SOIL SAMPLE TAKEN (BASE)
 - SOIL SAMPLE LOCATION (BASE) (ERODED)
 - ▲ SOIL SAMPLE TAKEN (WALL)
 - SOIL SAMPLE TAKEN DURING WOODEN PILE REMOVAL
 - SOIL SAMPLE TAKEN DURING WOODEN PILE REMOVAL (ERODED)
 - ⊕ SURFACE WATER SAMPLE LOCATION
 - ⊕ TEST PIT LOCATION
 - ⊕ THERMISTOR LOCATION
 - ⊕ SEDIMENT SAMPLE LOCATION
 - ⊕ SURFACE WATER SAMPLE LOCATION
 - ⊕ BACKGROUND SEDIMENT SAMPLE LOCATION
 - ⊕ BACKGROUND SURFACE WATER SAMPLE LOCATION
 - ⊕ WELL CENTRE

- LIST OF APPLICABLE ABBREVIATIONS**
- | | |
|------|--|
| > | MORE THAN |
| ETC | ENHANCED THERMAL CONDUCTION |
| F2 | PETROLEUM HYDROCARBON FRACTION 2 (C ₁₀ -C ₁₆) |
| m | METRE |
| mbgs | METRES BELOW GROUND SURFACE |
| PHC | PETROLEUM HYDROCARBONS |
| RAP | REMEDIATION ACTION PLAN |
| SQO | SOIL QUALITY OBJECTIVES |

- SOIL ANALYTICAL RESULTS**
- ◆ CONCENTRATIONS OF ALL PHC ANALYTES IN SOIL BELOW REVISED SQO. DOES NOT NECESSARILY INDICATE LATERAL DELINEATION.
 - CONCENTRATION OF ONE OR MORE PHC ANALYTE IN SOIL EXCEEDS REVISED SQO.

ANALYTE	SQO	APPLICATION DEPTH (mbgs)
PHC Fraction F2	9,800	0-0.5
	10,000	>0.5
Type B Hydrocarbons	2,500	0-0.5
	5,000	0.5-1.5
	10,000	>1.5

- REFERENCE**
- DIMENSIONS ARE IN MILLIMETRES, ELEVATIONS AND STATIONS ARE IN METRES, UNLESS OTHERWISE NOTED.
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 - ADDITIONAL INFORMATION OBTAINED FROM IEG CONSULTANTS LTD.; PROJECT No.: A04025A02; SCALE 1:750; DATE: 20 SEPTEMBER 2011.



CLIENT
SHELL CANADA LIMITED

PROJECT
SITE REMEDIATION
FORMER UNIPKAT I-22 WELLSITE
INUVALUIT SETTLEMENT REGION, NORTHWEST TERRITORIES

TITLE
ORIGINAL VERSUS REVISED REMEDIAL EXTENT

	CONSULTANT	YYYY-MM-DD	2026-08-11
	PREPARED	Y.WANG	
	DESIGN	A.HACHKOWSKI	
	REVIEW	P.KALITA	
	APPROVED	A.HACHKOWSKI	

Tables

Table 1
Soil Analytical Results - Grain Size and Atterberg Limits
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Borehole ID	Sample Depth (mbgs)		Natural Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	Grain Size Percentage by Weight					Hydrometer Percentage by Weight	
	Start	End					Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Fines (%)	Silt (%)	Clay (%)
BH22-14	0.3	1.5	23	-	-	-	0	15	58	27	85.0	-	-
BH24-06	1.9	2.2	27	-	-	-	0	15.2	71.7	13.1	84.8	-	-
BH24-15	3	3.75	34	-	-	-	0.7	5.3	62	32	94.0	-	-
BH24-22	0.5	1.5	28	-	-	-	0	8.1	53	39	92.0	-	-
BH24-26	0.5	1.5	25	-	-	-	0	6.8	60	34	94.0	-	-
BH24-28	5.25	6	25	-	-	-	0	22	65	13	78.0	-	-
BH24-34	3.75	4.5	25	-	-	-	1	10	61	28	89.0	-	-
BH24-35	0.5	1.5	31	-	-	-	0	17	58	25	83.0	-	-
BH24-46	3	3.75	30	-	-	-	0.6	9.4	60	30	90.0	-	-
BH24-49	0.5	1.5	20	-	-	-	0	20	63	17	80.0	-	-
BH24-51	2.25	3	28	-	-	-	0	12	67	21	88.0	-	-
BH24-58	4.5	5.25	27	-	-	-	0	13	62	25	87.0	-	-
BH24-59	0.5	1.5	30	-	-	-	0	23	56	21	77.0	-	-
BH25-05	0.7	1	28.8	42.9	27.4	15.5	0	3	90	7	97.0	-	-
BH25-07	0.7	1	34.6	29.4	22.5	6.9	0	3	88	9	97.0	-	-
BH25-08	1.1	1.4	32.5	25	20.7	4.3	0	4	89	7	96.0	-	-
BH25-09	0.9	1.2	37.9	30.5	22.2	8.3	0	1	88	11	99.0	-	-
BH25-10	1.1	1.4	27.4	25.3	21.8	3.5	0	6	84	10	94.0	-	-
UI22-BH26-13	1.83	1.98	31.1	37	23.7	23.7	0.0	0.0	-	-	100.0	82.2	17.8
UI22-BH26-14	0.76	1.83	35.1	33	23.9	23.9	-	-	-	-	-	-	-
UI22-BH26-14	2.74	2.90	72.8	32	22.2	22.2	0.0	0.0	-	-	100.0	88.8	11.2
UI22-BH26-16	1.37	1.52	-	30	27.2	27.2	0.0	1.0	-	-	99.0	83.3	15.7
UI22-BH26-16	2.29	2.44	-	45	20.4	20.4	0.0	0.6	-	-	99.4	84.6	14.8
UI22-BH26-18	2.74	2.90	30.4	30	23.6	23.6	0.0	1.2	-	-	98.8	81.0	17.8
UI22-BH26-19	0.91	1.07	92.4	-	NP	-	0.0	5.5	-	-	94.5	89.1	5.4
UI22-BH26-19	2.44	2.59	8.5	28	19.4	19.4	0.0	0.3	-	-	99.7	89.3	10.4
UI22-BH26-20	0.91	1.07	33.8	33	22.9	22.9	0.0	0.0	-	-	100.0	84.5	15.5
UI22-BH26-20	2.13	2.29	66.2	27	21.2	21.2	0.0	1.6	-	-	98.5	92.1	6.4

Notes:

mbgs - metres below ground surface

NP - non-plastic

% - percent

- not available

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
Site-Specific SQOs (0 - ≤0.5 mbgs)				–	–	–	–	–	–	9,800 ^(a)	–	–	–	–	–	2,500 ^(b)
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
I22 BG	I22 BG 0-25	13-Sep-2000	0 - 0.25	<0.005	<0.02	0.018	0.28	<10	<10	<10	197	–	–	82	279	–
	I22 BG 25-50	13-Sep-2000	0.25 - 0.50	<0.005	<0.02	0.018	0.28	<10	<10	<10	439	–	–	203	642	–
MW1	MW1 0-2	08-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	<0.040	<10	<10	19	121	–	–	44	165	–
MW2	MW2 0-2	08-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	1.15	<10	<10	12	98	–	–	32	130	–
MW3	MW3 0-2	08-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	<0.040	<10	<10	<10	52	–	–	18	70	–
MW6	MW6 0-2	09-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	<0.040	<10	<10	<10	64	–	–	18	82	–
MW10 ^(c)	MW10 0-2	12-Sep-2007	0 - 0.61	<0.005	<0.02	<0.01	<0.04	<10	<10	<10	18	–	–	<10	–	<38
BH42	BH42 0-2	09-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	<0.040	<10	<10	14	55	–	–	<10	–	<79
BH43	BH43 0-2	09-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	<0.040	<10	<10	<10	12	–	–	<10	–	32
BH46	BH46 0-2	09-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	<0.040	<10	<10	<10	42	–	–	<10	–	<62
BH61	BH61 0-2	09-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	<0.040	<10	<10	10	52	–	–	<10	–	<72
BH62	BH62 0-2	12-Sep-2007	0 - 0.61	<0.0050	<0.020	<0.010	<0.040	<10	<10	<10	18	–	–	<10	–	<38
BH10-01	BH10-01 0-0.5	17-Aug-2010	0 - 0.5	<0.005	<0.02	<0.01	<0.04	<12	<12	120	100	–	–	23	–	<232
	BH10-01 0.5-1.0	17-Aug-2010	0.5 - 1.0	<0.005	<0.02	0.019	0.12	85	85	5,000	810	–	–	180	–	5,895
BH10-02	BH10-02 0.5-1.0	17-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	22	70	–	–	20	–	<104
BH10-03	BH10-03 0.5-1.0	17-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	42	–	–	10	–	<64
BH10-04	BH10-04 0.5-1.0	17-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	54	–	–	13	67	–
BH10-07	BH10-07 0.0-0.5	18-Aug-2010	0 - 0.5	<0.005	<0.02	<0.01	<0.04	<12	<12	25	58	–	–	16	–	<95
	BH10-07 0.5-1.0	18-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	21	84	–	–	24	108	–
BH10-08	BH10-08 0.5-1.0	18-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	12	44	–	–	<10	–	<68
BH10-09	BH10-09 0.0-0.5	18-Aug-2010	0 - 0.5	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	33	–	–	<10	–	<55
BH10-10	BH10-10 0.5-1.0	18-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	23	67	–	–	13	–	<102
BH10-11	BH10-11 0.5-1.0	18-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	24	74	–	–	14	–	<110
BH10-13	BH10-13 0.0-0.5	19-Aug-2010	0 - 0.5	<0.005	<0.02	<0.01	<0.04	<12	<12	16	69	–	–	18	87	–
	BH10-13 0.5-1.0	19-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	1,500	180	–	–	43	–	<1,692
BH10-14	BH10-14 0.5-1.0	19-Aug-2010	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	55	120	–	–	20	–	<187
MW11-004	MW4 0-0.5	15-Apr-2011	0.0 - 0.5	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	41	–	–	15	56	–
	MW4 0.5-1.0	15-Apr-2011	0.5 - 1.0	<0.005	<0.02	<0.01	<0.04	<12	<12	420	170	–	–	52	–	590
TH13-01	TH-13-01 (0-0.15m)	17-Aug-2013	0.0-0.15	<0.005	<0.05	<0.01	<0.05	<10	–	<10	35	–	–	<10	–	<55
	TH-13-01 (0.3-0.6m)	17-Aug-2013	0.3-0.6	<0.005	<0.05	<0.01	<0.05	<10	–	<10	20	–	–	11	–	<40
TH13-02	TH-13-02 (0-0.15m)	17-Aug-2013	0.0-0.15	<0.005	<0.05	<0.01	<0.05	<10	–	58	111	–	–	71	182	–
	TH-13-02 (0.3-0.6m)	17-Aug-2013	0.3-0.6	<0.005	<0.05	<0.01	<0.05	<10	–	<10	10	–	–	<10	–	<30
TH13-03	TH-13-03 (0-0.15m)	17-Aug-2013	0.0-0.15	<0.005	<0.05	<0.01	<0.05	<10	–	<10	23	–	–	14	–	<43
	TH-13-03 (0.3-0.6m)	17-Aug-2013	0.3-0.6	<0.005	<0.05	<0.01	<0.05	<10	–	<10	<10	–	–	<10	–	<30
TH13-04	TH-13-04 (0-0.15m)	17-Aug-2013	0.0-0.15	<0.005	<0.05	<0.01	<0.05	<10	–	<10	35	–	–	21	56	–
	TH-13-04 (0.3-0.6m)	17-Aug-2013	0.3-0.6	<0.005	<0.05	<0.01	<0.05	<10	–	<10	25	–	–	16	–	<45
TH13-05	TH-13-05 (0-0.15m)	17-Aug-2013	0.0-0.15	<0.005	<0.05	<0.01	<0.05	<10	–	<10	27	–	–	21	48	–
	TH-13-05 (0.3-0.6m)	17-Aug-2013	0.3-0.6	<0.005	<0.05	<0.01	<0.05	<10	–	<10	12	–	–	<10	–	<32
TH13-06	TH-13-06 (0-0.15m)	17-Aug-2013	0.0-0.15	<0.005	<0.05	<0.01	<0.05	<10	–	<10	17	–	–	<10	–	<37
	TH-13-06 (0.3-0.6m)	17-Aug-2013	0.3-0.6	<0.005	<0.05	<0.01	<0.05	<10	–	<10	21	–	–	13	–	<41
UN19-001	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	20	50	–	–	20	–	<80

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
UN19-002	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	20	60	–	–	<10	–	<90
UN19-003	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	10	40	–	–	<10	–	<60
UN19-004	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	20	50	–	–	10	–	<80
UN19-005	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	10	70	–	–	<10	–	<90
UN19-006	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	20	50	–	–	<10	–	<80
UN19-007	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	20	60	–	–	<10	–	<90
UN19-008	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	50	100	–	–	20	–	<160
UN19-WC	–	21-Aug-2019	0 - 0.6	<0.005	<0.05	<0.01	<0.05	<10	–	10	50	–	–	10	–	<70
WP21	WP21-01	13-Aug-2021	0	<0.005	0.069	<0.01	<0.045	<10	<10	<31	190	–	–	<150	<340	–
WP21	WP21-02	13-Aug-2021	0	<0.005	0.11	<0.01	<0.045	<10	<10	<42	<210	–	–	<210	<420	–
WP21	WP21-03	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	<26	410	–	–	<130	<540	–
WP21	WP21-04	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	19	99	–	–	<50	<149	–
WP21	WP21-05	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	240	890	–	–	57	–	<1140
WP21	WP21-06	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	64	310	–	–	<130	<440	–
WP21	WP21-07	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	190	760	–	–	<50	–	<960
WP21	WP21-08	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	110	430	–	–	<130	<560	–
WP21	WP21-09	13-Aug-2021	0	<0.005	0.23	<0.01	<0.045	<17	<17	58	460	–	–	170	630	–
WP21	WP21-10	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	28	790	–	–	400	1,190	–
WP21	WP21-11	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	<29	160	–	–	<140	<300	–
WP21	WP21-12	13-Aug-2021	0	<0.005	<0.05	<0.01	<0.045	<10	<10	<30	240	–	–	<150	<390	–
BH22-01	BH22-01-01	22-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	<50	–	–	<50	<100	–
BH22-03	BH22-03-01	21-Aug-2022	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	76	–	–	<50	<126	–
	BH22-03-02	21-Aug-2022	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	10	51	–	–	<50	<101	–
BH22-04	BH22-04-01	21-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	14	84	–	–	<50	<134	–
	DUP E	21-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	74	–	–	<50	<124	–
BH22-05	BH22-05-01	21-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	65	–	–	<50	<115	–
BH22-06	BH22-06-01	20-Aug-2022	0.30 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	54	–	–	<50	<104	–
BH22-07	BH22-07-01	20-Aug-2022	0.00 - 1.30	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	<50	–	–	<50	<100	–
BH22-08	BH22-08-01	20-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	23	77	–	–	<50	<127	–
BH22-09	BH22-09-01	20-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	12	80	–	–	<50	<130	–
BH22-10	BH22-10-01	20-Aug-2022	0.30 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	16	81	–	–	<50	<131	–
BH22-11	BH22-11-02	20-Aug-2022	0.40 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	<50	–	–	<50	<100	–
BH22-12 ^(c)	BH22-12-01	20-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	13	75	–	–	<50	<125	–
BH22-13 ^(c)	BH22-13-01	19-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	11	56	–	–	<50	<106	–
BH22-14	BH22-14-01	22-Aug-2022	0.30 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	29	180	–	–	63	243	–
BH22-15	BH22-15-01	23-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	83	–	–	<50	<133	–
BH22-16	BH22-16-01	23-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	17	64	–	–	<50	<114	–
MW22-02	MW22-02-01	17-Aug-2022	0.00 - 0.75	<0.005	<0.05	<0.01	<0.045	<10	<10	11	58	–	–	<50	<108	–
MW22-04	MW22-04-01	19-Aug-2022	0.00 - 0.70	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	70	–	–	<50	<120	–
	DUP B	19-Aug-2022	0.00 - 0.70	<0.005	<0.05	<0.01	<0.045	<10	<10	50	110	–	–	<50	–	<170
MW22-05 ^(c)	MW22-05-01	19-Aug-2022	0.00 - 0.70	<0.005	<0.05	<0.01	<0.045	<10	<10	15	95	–	–	110	205	–
MW22-06 ^(c)	MW22-06-01	19-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	13	89	–	–	<50	<139	–
	DUP C	19-Aug-2022	0.00 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	13	93	–	–	<50	<143	–
SS22	SS22-02	23-Aug-2022	0	<0.005	<0.05	<0.01	<0.045	<10	<10	11	63	–	–	<50	<113	–
SS22	SS22-01	23-Aug-2022	0	<0.005	<0.05	<0.01	<0.045	<10	<10	10	56	–	–	<50	<106	–

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
SS22	DUPA	23-Aug-2022	0	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	52	–	–	<50	<102	–
SS22	SS22-06	23-Aug-2022	0	<0.005	<0.05	<0.01	<0.045	<10	<10	14	68	–	–	<50	<118	–
SS22	SS22-04	23-Aug-2022	0	<0.005	<0.05	<0.01	<0.045	<10	<10	16	84	–	–	<50	<134	–
SS22	SS22-05	23-Aug-2022	0	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	<50	–	–	<50	<100	–
SS23	SS23-98	24-Mar-2023	0	<0.014	<0.08	0.047	0.3	<24	<24	340	170	–	–	<50	–	<534
PILING	PILING 77	03-Apr-2023	0	<0.005	<0.05	<0.01	<0.045	<10	<10	14	66	–	–	<50	<116	–
PILING	PILING 34	03-Apr-2023	0	<0.005	<0.05	0.047	0.17	340	340	1,200	120	–	–	<50	–	1,660
PILING	PILING 01	03-Apr-2023	0	<0.005	<0.05	<0.01	<0.045	<10	<10	15	84	–	–	<50	<134	–
RWP23-01	RWP23-01	26-Mar-2023	0	<0.005	0.12	<0.01	<0.045	17	17	170	520	–	–	<250	<770	–
RWP23-02	RWP23-02	31-Mar-2023	0	<0.005	0.52	<0.01	<0.045	25	25	140	630	–	–	<250	<880	–
RWP23-03	RWP23-03	08-Apr-2023	0	<0.005	0.12	<0.01	<0.045	<10	<10	57	<220	–	–	<220	<440	–
RWP23-04	RWP23-04	08-Apr-2023	0	<0.005	0.13	0.025	0.14	51	51	260	1,700	–	–	<370	<2070	–
SP23-01	SP23-01-02	26-Mar-2023	0	<0.014	<0.08	<0.029	<0.13	<24	<24	34	150	–	–	<50	<200	–
SP23-01	SP23-01-04	29-Mar-2023	0	<0.005	<0.05	<0.01	<0.045	<10	<10	18	82	–	–	<50	<132	–
SP23-02	SP23-02	01-Apr-2023	0	<0.005	<0.05	<0.01	<0.045	<10	<10	59	68	–	–	<50	–	<137
BH24-01	BH24-01-01	04-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	32	100	–	–	<50	<150	–
	BH24-01-02	04-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	25	130	–	–	<50	<180	–
BH24-02	BH24-02-01	04-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	26	96	–	–	<50	<146	–
	BH24-02-02	04-Apr-2024	0.50 - 1.50	<0.005	<0.05	0.019	<0.045	<10	<10	52	88	–	–	<50	–	<150
	DUP DD	04-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	57	100	–	–	<50	–	<167
BH24-03	BH24-03-01	02-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	21	84	–	–	<50	<134	–
	BH24-03-02	02-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	88	–	–	<50	<138	–
BH24-04	BH24-04-01	05-Apr-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	28	140	–	–	<50	<190	–
	BH24-04-02	05-Apr-2024	0.50 - 1.50	0.0099	<0.05	0.026	<0.045	<10	<10	680	210	–	–	58	–	<900
BH24-05	BH24-05-01	27-Mar-2024	0.00 - 0.50	0.007	<0.05	0.017	0.11	<10	<10	270	150	–	–	<50	–	<430
	DUP M	27-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	260	170	–	–	<50	–	<440
	BH24-05-02	27-Mar-2024	0.50 - 1.50	0.01	<0.05	0.022	0.13	<10	<10	64	110	–	–	<50	–	<184
BH24-08	BH24-08-01	22-Mar-2024	0.10 - 0.40	<0.005	<0.05	<0.01	<0.045	<10	<10	33	120	–	–	<50	<170	–
	DUP E	22-Mar-2024	0.10 - 0.40	<0.011	<0.11	<0.021	<0.094	<21	<21	22	130	–	–	<50	<180	–
BH24-09	BH24-09-01	23-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	37	200	–	–	67	267	–
BH24-10	BH24-10-01	03-Apr-2024	0.00 - 0.50	<0.005	<0.05	0.034	0.13	<10	<10	360	410	–	–	120	–	<780
	BH24-10-02	03-Apr-2024	0.50 - 1.50	<0.005	<0.05	0.029	0.23	<10	<10	470	300	–	–	92	–	<780
BH24-11	BH24-11-01	31-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	32	100	–	–	<50	<150	–
	BH24-11-02	31-Mar-2024	0.50 - 1.50	<0.005	<0.05	0.018	0.047	<10	<10	340	410	–	–	210	–	<760
BH24-12	BH24-12-01	03-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	50	280	–	–	70	350	–
	BH24-12-02	03-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	120	–	–	<50	<170	–
	DUP CC	03-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	21	140	–	–	<50	<190	–
BH24-13	BH24-13-01	22-Mar-2024	0.25 - 0.50	<0.005	<0.05	0.05	0.15	62	62	2,500	190	–	–	52	–	2,752
	DUP D	22-Mar-2024	0.25 - 0.50	<0.005	<0.05	0.042	0.16	39	39	1,100	160	–	–	<50	–	1,299
BH24-15	BH24-15-01	01-Apr-2024	0.00 - 0.50	<0.005	<0.05	0.11	0.35	350	340	4,000	310	–	–	77	–	4,660
BH24-16	BH24-16-01	03-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	290	91	–	–	<50	–	<391
BH24-17	BH24-17-01	28-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	110	–	–	<50	<160	–
	BH24-17-02	28-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	25	130	–	–	<50	<180	–
BH24-19	BH24-19-01	22-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	23	140	–	–	<50	<190	–

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH24-21	BH24-21-01	03-Apr-2024	0.00 - 0.50	<0.005	<0.05	0.036	0.19	37	37	2,200	180	–	–	<50	–	2,417
	BH24-21-02	03-Apr-2024	0.50 - 1.50	<0.005	<0.05	0.094	0.33	620	620	17,000	410	–	–	68	–	18,030
BH24-22	BH24-22-01	03-Apr-2024	0.00 - 0.50	<0.011	<0.05	<0.01	<0.11	<10	<10	51	90	–	–	<50	–	<151
	BH24-22-02	03-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	51	180	–	–	56	236	–
BH24-23	BH24-23-01	02-Apr-2024	0.00 - 0.50	<0.005	<0.05	0.03	0.16	<10	<10	800	640	–	–	200	–	<1450
	BH24-23-02	02-Apr-2024	0.50 - 1.50	<0.011	<0.05	0.036	0.29	13	13	77	180	–	–	67	–	270
BH24-24	BH24-24-01	27-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	25	240	–	–	120	360	–
	BH24-24-02	27-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	22	180	–	–	53	233	–
BH24-25	BH24-25-01	22-Mar-2024	0.00 - 0.80	<0.015	<0.12	<0.029	<0.13	<24	<24	17	97	–	–	<50	<147	–
BH24-26	BH24-26-01	26-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	65	–	–	<50	<115	–
	BH24-26-02	26-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	46	120	–	–	<50	<170	–
BH24-27	BH24-27-01	26-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	16	77	–	–	<50	<127	–
	BH24-27-02	26-Mar-2024	0.50 - 1.50	<0.008	<0.05	<0.016	<0.093	<21	<21	17	90	–	–	<50	<140	–
BH24-28	BH24-28-01	01-Apr-2024	0.00 - 0.50	<0.005	<0.05	0.039	<0.045	<10	<10	28	140	–	–	<50	<190	–
	BH24-28-02	01-Apr-2024	0.50 - 1.50	<0.005	0.13	0.033	<0.045	<16	<16	89	140	–	–	<50	–	<245
BH24-29	BH24-29-01	01-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	17	96	–	–	<50	<146	–
	BH24-29-02	01-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	81	–	–	<50	<131	–
BH24-30	BH24-30-01	28-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	47	150	–	–	<50	<200	–
	BH24-30-02	28-Mar-2024	0.50 - 1.50	<0.005	<0.05	0.033	0.15	<10	<10	1,000	290	–	–	54	–	<1300
BH24-31	BH24-31-01	27-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	14	55	–	–	<50	<105	–
BH24-32	BH24-32-01	27-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	100	–	–	<50	<150	–
	BH24-32-02	27-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	75	–	–	<50	<125	–
BH24-33	BH24-33-01	27-Mar-2024	0.00 - 0.50	0.013	<0.05	0.049	0.19	13	12	24	120	–	–	<50	<170	–
BH24-34	BH24-34-01	29-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	24	140	–	–	<50	<190	–
	BH24-34-02	29-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	17	99	–	–	<50	<149	–
BH24-35	BH24-35-01	26-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	14	73	–	–	<50	<123	–
	BH24-35-02	26-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	81	–	–	<50	<131	–
BH24-36	BH24-36-01	28-Mar-2024	0.00 - 0.50	<0.01	<0.05	<0.01	<0.096	<22	<22	21	79	–	–	<50	<129	–
	BH24-36-02	28-Mar-2024	0.50 - 1.50	<0.011	<0.05	<0.017	<0.12	<26	<26	58	98	–	–	<50	–	<182
BH24-37	BH24-37-01	25-Mar-2024	0.20 - 0.50	<0.005	<0.05	0.019	0.12	<10	<10	320	100	–	–	<50	–	<430
BH24-38	BH24-38-01	24-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	70	–	–	<50	<120	–
BH24-40	BH24-40-01	26-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	13	74	–	–	<50	<124	–
	BH24-40-02	26-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	13	71	–	–	<50	<121	–
BH24-41	BH24-41-01	24-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	89	–	–	<50	<139	–
BH24-42	BH24-42-01	25-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	27	140	–	–	<50	<190	–
BH24-43	BH24-43-01	24-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	150	–	–	51	201	–
BH24-44 ^(c)	BH24-44-01	30-Mar-2024	0.00 - 0.50	<0.014	<0.12	<0.028	<0.13	<24	<24	15	75	–	–	<50	<125	–
	BH24-44-02	30-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	16	80	–	–	<50	<130	–
	DUP T	30-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	14	66	–	–	<50	<116	–
BH24-45 ^(c)	BH24-45-01	30-Mar-2024	0.20 - 0.50	<0.014	<0.12	<0.027	<0.12	<24	<24	24	150	–	–	51	201	–
	BH24-45-02	30-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	19	120	–	–	<50	<170	–
	DUP U	30-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	21	190	–	–	58	248	–

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH24-46	BH24-46-01	05-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	80	–	–	<50	<130	–
	BH24-46-02	05-Apr-2024	0.50 - 1.50	<0.005	<0.05	0.03	0.08	<10	<10	89	110	–	–	<50	–	<209
	DUP II	05-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	0.14	<10	<10	54	95	–	–	<50	–	<159
BH24-47	BH24-47-01	04-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	36	110	–	–	<50	<160	–
	BH24-47-02	04-Apr-2024	0.50 - 1.50	0.014	<0.05	<0.01	0.14	<10	<10	140	140	–	–	<50	–	<290
BH24-48	BH24-48-01	05-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	22	96	–	–	<50	<146	–
	BH24-48-02	05-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	30	100	–	–	<50	<150	–
	DUP HH	05-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	39	120	–	–	<50	<170	–
BH24-49	BH24-49-01	31-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	33	110	–	–	<50	<160	–
	BH24-49-02	31-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	95	140	–	–	<50	–	<245
BH24-50	BH24-50-01	31-Mar-2024	0.00 - 0.50	0.01	<0.05	0.022	0.14	<10	<10	400	180	–	–	50	–	<590
	BH24-50-02	31-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	250	160	–	–	<50	–	<420
BH24-51	BH24-51-01	31-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	140	110	–	–	<50	–	<260
	BH24-51-02	31-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	60	86	–	–	<50	–	<156
BH24-53	BH24-53-01	21-Mar-2024	0.00 - 0.30	<0.005	<0.05	<0.01	<0.045	<10	<10	15	67	–	–	<50	<117	–
BH24-56	BH24-56-01	30-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	96	–	–	<50	<146	–
	BH24-56-02	30-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	19	100	–	–	<50	<150	–
	DUP V	30-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	13	<50	–	–	<50	<100	–
BH24-57	BH24-57-01	29-Mar-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	16	86	–	–	<50	<136	–
	BH24-57-02	29-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	120	–	–	<50	<170	–
	DUP S	29-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	17	110	–	–	<50	<160	–
BH24-58	BH24-58-01	29-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	100	–	–	<50	<150	–
	BH24-58-02	29-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	28	130	–	–	<50	<180	–
	DUP R	29-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	110	–	–	<50	<160	–
BH24-59	BH24-59-01	29-Mar-2024	0.20 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	19	98	–	–	<50	<148	–
	BH24-59-02	29-Mar-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	21	120	–	–	<50	<170	–
BH24-60 ^(e)	BH24-60-01	05-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	77	–	–	<50	<127	–
	BH24-60-02	05-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	13	80	–	–	<50	<130	–
	DUP FF	05-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	14	86	–	–	<50	<136	–
BH24-61	BH24-61-01	05-Apr-2024	0.00 - 0.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	92	–	–	<50	<142	–
	BH24-61-02	05-Apr-2024	0.50 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	21	200	–	–	69	269	–
P24-B	P24-B20	28-Mar-2024	0.00 - 4.00	<0.01	<0.1	<0.02	<0.081	–	–	–	–	–	–	–	–	1,446
	P24-B20	28-Mar-2024	0.00 - 4.00	<0.01	<0.1	<0.02	<0.081	–	–	–	–	–	–	–	–	1,446
BH26-01	BH26-01-01	30-Mar-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	20	64	–	–	29	93	–
BH26-02	BH26-02-01	04-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	<10	58	–	–	<10	–	<78
BH26-03	BH26-03-01	30-Mar-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	19	86	–	–	42	128	–
BH26-04	BH26-04-01	04-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	15	66	–	–	18	84	–
BH26-05	BH26-05-01	30-Mar-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	13	41	–	–	20	61	–
BH26-06	BH26-06-01	05-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	17	91	–	–	47	138	–
BH26-07	BH26-07-01	01-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	13	64	–	–	24	88	–
	DUP-S-C	01-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	19	76	–	–	25	101	–
BH26-08	BH26-08-01	09-Apr-2026	0.25	<0.005	<0.05	0.015	<0.05	<10	<10	20	99	–	–	37	136	–
BH26-09	BH26-09-01	01-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	16	46	–	–	24	70	–
BH26-10	BH26-10-01	03-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	12	85	–	–	40	125	–
	DUP-S-D	03-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	24	93	–	–	43	136	–

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Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH26-11	BH26-11-01	01-Apr-2026	0.00 - 0.25	<0.005	<0.05	<0.01	<0.05	<10	<10	12	35	–	–	19	54	–
BH26-15	BH26-15-01	30-Mar-2026	0.00 - 0.50	<0.005	<0.05	<0.01	<0.05	<10	<10	46	90	31	58	54	144	–
	BH26-15-02	30-Mar-2026	0.50 - 1.00	<0.005	<0.05	<0.01	<0.05	<10	<10	34	88	–	–	37	125	–
BH26-16	BH26-16-01	29-Mar-2026	0.00 - 0.50	<0.005	<0.05	<0.01	<0.05	<10	<10	38	102	–	–	33	–	<150
	BH26-16-02	29-Mar-2026	0.50 - 1.00	<0.005	<0.05	<0.01	<0.05	<10	<10	130	232	–	–	64	–	<372
BH26-28	BH26-28-01	29-Mar-2026	0.00 - 0.50	<0.005	<0.05	<0.01	<0.05	<10	<10	19	86	29	57	42	128	–
	BH26-28-02	29-Mar-2026	0.50 - 1.00	<0.005	<0.05	<0.01	<0.05	<10	<10	93	127	–	–	63	–	<230
EXA-NW-01	EXA-NW-01-0.3	06-Apr-2026	0.3	<0.005	<0.05	<0.01	<0.05	<10	<10	<10	47	–	–	15	62	–
	DUP-S-E	06-Apr-2026	0.3	<0.005	<0.05	<0.01	<0.05	<10	<10	<10	55	–	–	17	72	–
EXA-SW-01	EXA-SW-01-0.3	06-Apr-2026	0.3	<0.005	<0.05	<0.01	<0.05	<10	<10	<10	54	–	–	19	73	–
EXB-NW-01	EXB-NW-01-0.3	08-Apr-2026	0.3	<0.005	0.22	<0.01	<0.05	–	<10	37	110	–	–	22	–	157
EXB-SW-01	EXB-SW-01-0.3	08-Apr-2026	0.3	<0.005	<0.05	<0.01	<0.05	–	<10	113	108	–	–	31	–	231
Site-Specific SQOs (>0.5 - ≤1.5 mbgs)				–	–	–	–	–	–	10,000 ^(d)	–	–	–	–	–	5,000 ^(e)
MW1	MW1 2-5	08-Sep-2007	0.61 - 1.52	<0.0050	<0.020	0.041	<0.040	57	57	3,310	160	–	–	43	–	3,527
MW2	MW2 2-5	08-Sep-2007	0.61 - 1.52	<0.0050	<0.020	<0.010	<0.040	<10	<10	<10	115	–	–	47	162	–
MW3	MW3 2-5	08-Sep-2007	0.61 - 1.52	<0.0050	<0.020	<0.010	<0.040	<10	<10	13	101	–	–	30	131	–
MW10 ^(c)	MW10 2-5	12-Sep-2007	0.61 - 1.52	<0.005	<0.02	<0.01	<0.04	<10	<10	<10	57	–	–	15	72	n/a
BH42	BH42 2-5	09-Sep-2007	0.61 - 1.52	<0.0050	<0.020	0.034	0.15	59	59	4,210	136	–	–	<10	–	4,405
BH43	BH43 2-5	09-Sep-2007	0.61 - 1.52	0.064	0.034	0.057	0.27	118	118	1,250	59	–	–	<10	–	1,427
BH46	BH46 2-5	09-Sep-2007	0.61 - 1.52	<0.0050	0.039	0.06	0.37	261	261	4,220	84	–	–	<10	–	4,565
BH61	BH61 2-5	09-Sep-2007	0.61 - 1.52	<0.0050	<0.020	<0.010	<0.040	<10	<10	12	99	–	–	<10	–	<121
BH61	BH61 5-7	09-Sep-2007	1.52 - 2.13	<0.0050	<0.020	<0.010	<0.040	<10	<10	12	61	–	–	<10	–	<83
BH62	BH62 2-5	12-Sep-2007	0.61 - 1.52	<0.0050	<0.020	<0.010	<0.040	<10	<10	<10	52	–	–	<10	–	<72
BH10-01	BH10-01 1.0-1.5	17-Aug-2010	1.0 - 1.5	<0.005	<0.02	0.034	0.18	<12	<12	870	100	–	–	24	–	<982
BH10-02	BH10-02 1.0-1.5	17-Aug-2010	1.0 - 1.5	<0.005	<0.02	<0.01	<0.04	<12	<12	12	63	–	–	15	78	–
	BH10-02 1.5-2.0	17-Aug-2010	1.5 - 2.0	<0.005	<0.02	<0.01	<0.04	<12	<12	14	48	–	–	<10	–	<74
BH10-03	BH10-03 1.0-1.4	17-Aug-2010	1.0 - 1.4	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	50	–	–	12	62	–
BH10-05	BH10-05 1.0-1.3	17-Aug-2010	1.0 - 1.3	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	70	–	–	13	83	–
BH10-06	BH10-06 1.0-1.5	17-Aug-2010	1.0 - 1.5	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	85	–	–	20	105	–
	BH10-06 1.5-2.0	17-Aug-2010	1.5 - 2.0	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	46	–	–	10	–	<68
BH10-07	BH10-07 1.0-1.5	18-Aug-2010	1.0 -1.5	<0.005	<0.02	0.043	0.23	36	36	930	85	–	–	21	–	1051
	BH10-07 1.5-2.0	18-Aug-2010	1.5 - 2.0	<0.005	<0.02	0.029	0.13	18	18	510	53	–	–	<10	–	581
BH10-08	BH10-08 1.5-2.0	18-Aug-2010	1.5 - 2.0	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	39	–	–	<10	–	<61
BH10-09	BH10-09 1.0-1.5	18-Aug-2010	1.0 -1.5	<0.005	<0.02	<0.01	<0.04	<12	<12	11	49	–	–	14	63	–
BH10-10	BH10-10 1.0-1.5	18-Aug-2010	1.0 -1.5	<0.005	<0.02	<0.01	0.041	20	20	250	47	–	–	<10	–	317
	BH10-10 1.5-1.9	18-Aug-2010	1.5 - 1.9	<0.005	<0.02	<0.01	<0.04	<12	<12	130	66	–	–	13	–	<208
BH10-11	BH10-11 1.0-2.0	18-Aug-2010	1.0 -2.0	<0.005	<0.02	<0.01	<0.04	<12	<12	14	81	–	–	12	–	<107
BH10-12	BH10-12 1.0-1.5	18-Aug-2010	1.0 -1.5	<0.005	<0.02	<0.01	<0.04	17	17	370	88	–	–	19	–	475
	BH10-12 1.5-2.0	18-Aug-2010	1.5 - 2.0	<0.005	<0.02	0.017	<0.04	14	14	940	480	–	–	120	–	1,434
BH10-13	BH10-13 1.0-1.5	19-Aug-2010	1.0 -1.5	<0.005	<0.02	<0.01	0.88	77	77	2,900	110	–	–	26	–	3,087
	BH10-13 1.5-2.0	19-Aug-2010	1.5 - 2.0	<0.005	<0.02	<0.01	0.6	150	150	1,700	160	–	–	59	–	2,010
BH10-14	BH10-14 1.0-1.5	19-Aug-2010	1.0 -1.5	<0.005	<0.02	<0.01	<0.04	<12	<12	27	75	–	–	11	–	<114
	BH10-14 1.5-2.0	19-Aug-2010	1.5 - 2.0	<0.005	<0.02	<0.01	<0.04	<12	<12	23	65	–	–	<10	–	<100
BH10-15	BH10-15 1.0-1.5	19-Aug-2010	1.0 -1.5	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	74	–	–	16	90	–
	BH10-15 1.5-2.0	19-Aug-2010	1.5 - 2.0	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	64	–	–	<10	–	<86

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Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH10-17	BH10-17 1.5-2.0	19-Aug-2010	1.5 - 2.0	<0.005	<0.02	<0.01	<0.04	<12	<12	99	94	–	–	13	–	<205
SS11-093	SS11-093	27-Mar-2011	~1.5	<0.005	<0.02	<0.01	<0.04	<12	<12	320	120	–	–	43	–	440
SS11-098	SS11-098	27-Mar-2011	~1.5	<0.005	<0.02	<0.01	<0.04	13	13	12	54	–	–	26	80	–
SS11-107	SS11-107	29-Mar-2011	~1.5 - 2.5	<0.005	<0.02	<0.01	0.32	35	35	3,700	98	–	–	11	–	3,798
SS11-108	SS11-108	29-Mar-2011	~1 - 1.5	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	62	–	–	<10	–	<72
SS11-110	SS11-110	29-Mar-2011	~1.5 - 2	0.022	0.12	0.13	2	120	120	6,500	680	–	–	130	–	7,180
SS11-111	SS11-111	29-Mar-2011	~1.5 - 2	<0.005	<0.02	<0.01	<0.04	<12	<12	19	37	–	–	<10	–	56
MW11-004	MW4 1.5-2.0	15-Apr-2011	1.5 - 2.0	<0.005	<0.02	<0.01	<0.04	<12	<12	120	59	–	–	20	–	179
BH12-01	MW12-01-1.0	29-Jun-2012	1.0	<0.005	<0.02	<0.01	<0.04	<12	–	<10	<10	–	–	<10	–	<32
BH12-02	MW12-02-1.0	29-Jun-2012	1.0	<0.005	<0.02	<0.01	<0.04	<12	–	<10	19	–	–	<10	–	<41
	MW12-02-1.5	29-Jun-2012	1.5	<0.005	<0.02	<0.01	<0.04	46	–	120	100	–	–	32	–	266
	DUP A	29-Jun-2012	1.5	<0.005	<0.02	<0.01	<0.04	<12	–	65	55	–	–	<10	–	<132
UN19-001	–	21-Aug-2019	0.6 - 1.2	<0.005	<0.05	<0.01	<0.05	<10	–	20	50	–	–	20	–	<80
UN19-002	–	21-Aug-2019	0.6 - 1.2	<0.005	<0.05	<0.01	<0.05	<10	–	10	40	–	–	10	–	<60
UN19-003	–	21-Aug-2019	0.6 - 1.2	<0.005	<0.05	<0.01	<0.05	<10	–	20	70	–	–	10	–	<100
UN19-004	–	21-Aug-2019	0.6 - 1.2	<0.005	<0.05	<0.01	<0.05	<10	–	10	70	–	–	10	–	<90
UN19-005	–	21-Aug-2019	0.6 - 1.2	<0.005	<0.05	<0.01	<0.05	<10	–	20	70	–	–	10	–	<100
UN19-006	–	21-Aug-2019	0.6 - 1.2	<0.005	<0.05	<0.01	<0.05	<10	–	10	50	–	–	<10	–	<70
UN19-007	–	21-Aug-2019	0.6 - 1.2	<0.005	<0.05	<0.01	<0.05	<10	–	10	40	–	–	<10	–	<60
UN19-008	–	21-Aug-2019	0.6 - 1.2	<0.005	<0.05	<0.01	<0.05	<10	–	40	80	–	–	10	–	<130
MW22-01	MW22-01-02	17-Aug-2022	0.75 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	11	140	–	–	56	196	–
	DUP A	17-Aug-2022	0.75 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	94	–	–	<50	<144	–
	MW22-01-03	17-Aug-2022	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	11	61	–	–	<50	<111	–
MW22-03	MW22-03-02	17-Aug-2022	0.75 - 1.50	<0.005	<0.05	0.16	2	950	950	6,000	170	–	–	<50	–	7,120
	MW22-03-03	17-Aug-2022	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	11	57	–	–	<50	<107	–
MW22-04	MW22-04-02	19-Aug-2022	0.70 - 1.50	<0.005	<0.05	0.041	0.17	<10	<10	480	110	–	–	<50	–	<600
MW22-05 ^(c)	MW22-05-02	19-Aug-2022	0.70 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	14	81	–	–	<50	<131	–
	MW22-05-03	19-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	13	71	–	–	<50	<121	–
BH22-01	BH22-01-02	22-Aug-2022	1.50 - 2.30	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	77	–	–	<50	<127	–
BH22-02	BH22-02-01	22-Aug-2022	1.50 - 2.90	<0.014	<0.08	<0.027	<0.12	<24	<24	<21	<110	–	–	<110	<220	–
BH22-03	BH22-03-03	21-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	13	110	–	–	<50	<160	–
BH22-04	DUP D	21-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	14	93	–	–	60	153	–
	BH22-04-02	21-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	17	100	–	–	87	187	–
BH22-05	BH22-05-02	21-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	17	110	–	–	<50	<160	–
BH22-06	BH22-06-02	20-Aug-2022	1.50 - 2.20	0.012	<0.05	<0.01	<0.045	<10	<10	12	92	–	–	<50	<142	–
BH22-08	BH22-08-02	20-Aug-2022	1.50 - 2.10	<0.005	<0.05	0.039	0.15	<10	<10	210	140	–	–	<50	–	<360
BH22-09	BH22-09-02	20-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	10	130	–	–	60	190	–
BH22-10	BH22-10-02	20-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	14	88	–	–	<50	<138	–
BH22-11	BH22-11-03	20-Aug-2022	1.50 - 2.30	<0.005	<0.05	<0.01	<0.045	<10	<10	16	110	–	–	<50	<160	–
BH22-12 ^(c)	BH22-12-02	20-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	17	100	–	–	<50	<150	–
BH22-13 ^(c)	BH22-13-02	19-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	14	87	–	–	<50	<137	–
BH22-14	BH22-14-02	22-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	16	99	–	–	<50	<149	–
BH22-15	BH22-15-02	23-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	800	97	–	–	<50	–	<907
BH22-16	BH22-16-02	23-Aug-2022	1.50 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	41	70	–	–	<50	<120	–
BH24-01	BH24-01-03	04-Apr-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	20	88	–	–	<50	<138	–

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH24-03	BH24-03-03	02-Apr-2024	1.50 - 2.25	<0.018	<0.12	<0.035	<0.16	<27	<27	15	83	–	–	<50	<133	–
BH24-04	BH24-04-03	05-Apr-2024	1.50 - 2.25	0.014	<0.05	0.032	0.15	<10	<10	260	170	–	–	50	–	<440
BH24-06	BH24-06-02	21-Mar-2024	0.90 - 1.10	<0.005	<0.05	<0.01	<0.045	<10	<10	13	55	–	–	<50	<105	–
BH24-07	BH24-07-02	21-Mar-2024	1.00 - 1.30	<0.005	<0.05	<0.01	<0.045	<10	<10	13	56	–	–	<50	<106	–
BH22-07	BH22-07-02	20-Aug-2022	1.30 - 2.20	<0.005	0.12	0.35	3	430	430	6,800	150	–	–	<50	–	7,380
BH24-10	BH24-10-03	03-Apr-2024	1.50 - 2.25	<0.005	<0.05	0.055	0.37	40	40	1,600	180	–	–	<50	–	1,820
BH24-14	BH24-14-02	23-Mar-2024	1.00 - 1.30	<0.005	<0.05	0.11	0.32	180	180	14,000	450	–	–	130	–	14,630
	DUP F	23-Mar-2024	1.00 - 1.30	<0.005	<0.05	0.13	0.35	150	150	17,000	420	–	–	120	–	17,570
BH24-15	BH24-15-02	01-Apr-2024	0.70 - 1.50	<0.005	<0.05	0.11	0.46	940	940	17,000	380	–	–	59	–	18,320
	BH24-15-03	01-Apr-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	4,200	200	–	–	<50	–	<4410
BH24-16	BH24-16-02	03-Apr-2024	1.50 - 3.00	<0.005	<0.05	<0.01	0.21	48	48	1,300	180	–	–	<50	–	1,528
BH24-19	BH24-19-02	22-Mar-2024	1.10 - 1.30	<0.005	<0.05	<0.01	<0.045	<10	<10	17	170	–	–	51	221	–
BH24-20	BH24-20-02	25-Mar-2024	1.10 - 1.40	<0.005	<0.05	<0.01	<0.045	<10	<10	140	210	–	–	54	–	<360
BH24-24	BH24-24-03	27-Mar-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	160	130	–	–	<50	–	<300
BH24-25	BH24-25-03	22-Mar-2024	1.50 - 2.30	<0.005	<0.05	<0.01	<0.045	<10	<10	16	120	–	–	<50	<170	–
BH24-26	BH24-26-03	26-Mar-2024	1.50 - 2.25	<0.005	<0.05	0.11	0.32	54	54	1,000	140	–	–	<50	–	1,194
BH24-27	BH24-27-03	26-Mar-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	26	66	–	–	<50	<116	–
	DUP L	26-Mar-2024	1.50 - 2.25	<0.005	<0.05	0.022	<0.045	14	13	350	100	–	–	<50	–	464
BH24-28	BH24-28-03	01-Apr-2024	1.50 - 2.25	<0.005	<0.05	0.024	<0.045	36	36	24,000	520	–	–	88	–	24,556
	DUP AA	01-Apr-2024	1.50 - 2.25	<0.005	<0.05	0.037	0.2	330	330	9,900	330	–	–	79	–	10,560
BH24-29	BH24-29-03	01-Apr-2024	1.50 - 2.25	0.01	<0.05	0.041	0.12	16	16	4,100	270	–	–	73	–	4,386
	DUP BB	01-Apr-2024	1.50 - 2.25	<0.005	<0.05	0.028	0.15	25	25	920	170	–	–	<50	–	1,115
BH24-30	BH24-30-03	28-Mar-2024	1.50 - 2.25	<0.005	<0.05	0.072	0.59	320	320	19,000	410	–	–	<50	–	19,730
BH24-31	BH24-31-03	27-Mar-2024	1.50 - 1.70	<0.005	<0.05	0.036	0.22	130	130	1,400	110	–	–	<50	–	1,640
BH24-32	BH24-32-03	27-Mar-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	22	130	–	–	<50	<180	–
BH24-33	BH24-33-03	27-Mar-2024	1.50 - 2.25	<0.005	<0.05	0.025	0.12	<10	<10	20	210	–	–	74	284	–
BH24-34	BH24-34-03	29-Mar-2024	1.50 - 2.25	<0.005	<0.05	0.066	0.22	15	15	4,800	240	–	–	53	–	5,055
BH24-36	BH24-36-03	28-Mar-2024	1.50 - 2.25	<0.005	<0.05	0.071	0.32	<10	<10	98	88	–	–	<50	–	<196
BH24-37	BH24-37-02	25-Mar-2024	1.10 - 1.50	<0.005	<0.05	0.017	0.071	<10	<10	1,300	180	–	–	<50	–	<1490
BH24-38	BH24-38-02	24-Mar-2024	1.00 - 1.30	<0.005	<0.05	<0.01	<0.045	<10	<10	490	370	–	–	99	–	<870
	DUP H	24-Mar-2024	1.00 - 1.30	<0.005	<0.05	<0.01	<0.045	<10	<10	650	420	–	–	100	–	<1080
BH24-39	BH24-39-02	24-Mar-2024	1.10 - 1.40	<0.005	<0.05	<0.01	<0.045	<10	<10	36	340	–	–	93	433	–
BH24-41	BH24-41-02	24-Mar-2024	1.00 - 1.30	<0.005	<0.05	<0.01	<0.045	<10	<10	23	170	–	–	62	232	–
BH24-46	BH24-46-03	05-Apr-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	28	71	–	–	<50	<121	–
BH24-47	BH24-47-03	04-Apr-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	23	110	–	–	<50	<160	–
BH24-51	BH24-51-03	31-Mar-2024	1.50 - 2.25	0.018	<0.05	0.076	0.34	16	16	2,100	870	–	–	200	–	2,986
BH24-53	BH24-53-02	21-Mar-2024	1.10 - 1.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	67	–	–	<50	<117	–
BH24-56	BH24-56-03	30-Mar-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	23	130	–	–	<50	<180	–
BH24-59	BH24-59-03	29-Mar-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	79	200	–	–	54	–	<289
BH24-61	BH24-61-03	05-Apr-2024	1.50 - 2.25	<0.005	<0.05	<0.01	<0.045	<10	<10	16	140	–	–	50	190	–
TP24-01	TP24-01-01	02-Apr-2024	0.7	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	<50	–	–	<50	<100	–
TP24-01	TP24-01-02	02-Apr-2024	1	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	<50	–	–	<50	<100	–
I22-SB25-01	I22-SB25-01-01	06-Aug-2025	1.00 - 1.25	<0.005	<0.05	<0.01	<0.045	<10	<10	48	110	–	–	<50	<160	–
I22-SB25-02	I22-SB25-02-01	07-Aug-2025	1.00 - 1.25	<0.005	<0.05	<0.01	0.1	<10	<10	44	290	–	–	110	400	–
I22-SB25-02	I22-SB25-DUP-01	07-Aug-2025	1.00 - 1.25	<0.005	<0.05	<0.01	0.1	<10	<10	31	180	–	–	70	250	–

Table 2
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Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
I22-SB25-03	I22-SB25-03-01	06-Aug-2025	1.00 - 1.25	<0.005	<0.05	<0.01	<0.045	<10	<10	16	93	–	–	<50	<143	–
BH26-15	BH26-15-03	30-Mar-2026	1.00 - 1.50	<0.005	<0.05	<0.01	<0.05	<10	<10	19	57	–	–	20	77	–
	BH26-15-04	30-Mar-2026	1.50 - 2.25	<0.005	<0.05	<0.01	<0.05	<10	<10	57	113	–	–	37	–	<180
BH26-16	BH26-16-03	29-Mar-2026	1.00 - 1.50	<0.005	<0.05	<0.01	<0.05	<10	<10	188	161	–	–	59	–	<359
	BH26-16-04	29-Mar-2026	1.50 - 2.25	<0.005	<0.05	0.062	0.25	185	185	19,100	369	–	–	<40	–	19,654
BH26-28	BH26-28-03	29-Mar-2026	1.00 - 1.50	<0.005	<0.05	<0.01	<0.05	<10	<10	198	154	–	–	64	–	<362
	DUP-S-A	29-Mar-2026	1.00 - 1.50	<0.005	<0.05	<0.01	<0.05	<10	<10	550	152	–	–	87	–	<712
	BH26-28-04	29-Mar-2026	1.50 - 2.25	<0.005	<0.05	0.05	<0.05	140	140	5,390	273	–	–	93	–	5,803
EXA-NW-01	EXA-NW-01-1.0	06-Apr-2026	1	<0.005	<0.05	<0.01	<0.05	<10	<10	<10	56	–	–	19	75	–
	EXA-NW-01-1.5	06-Apr-2026	1.5	<0.005	<0.05	<0.01	<0.05	<10	<10	29	105	–	–	46	151	–
EXA-SW-01	EXA-SW-01-1.5	06-Apr-2026	1.5	<0.005	0.06	<0.01	<0.05	<10	<10	16	39	–	–	14	–	<65
	EXA-SW-01-1.0	06-Apr-2026	1	<0.005	<0.05	<0.01	<0.05	<10	<10	<10	65	–	–	26	91	–
EXB-NW-01	EXB-NW-01-1.0	08-Apr-2026	1	<0.005	<0.05	<0.01	<0.05	–	<10	53	155	–	–	37	–	218
	EXB-NW-01-1.5	08-Apr-2026	1.5	<0.005	<0.05	0.026	0.06	–	152	7,770	285	–	–	71	–	8,065
EXB-SW-01	EXB-SW-01-1.0	08-Apr-2026	1	<0.005	<0.05	<0.01	<0.05	–	15	140	417	–	–	106	–	567
	EXB-SW-01-1.5	08-Apr-2026	1.5	<0.005	<0.05	0.046	0.11	–	203	2,460	155	–	–	39	–	2,625
AP-59	AP-59	08-Apr-2026	1	<0.005	<0.05	<0.01	<0.05	19	19	868	229	–	–	50	–	1,116
AP-60	AP-60	09-Apr-2026	1	<0.005	<0.05	<0.01	<0.05	44	44	2,870	1,010	–	–	118	–	3,924
AP-71	AP-71	09-Apr-2026	1	<0.005	<0.05	<0.01	<0.05	<10	<10	186	106	–	–	18	–	<302
AP-82	AP-82	07-Apr-2026	1	<0.005	<0.05	0.013	<0.05	73	73	7,750	524	–	–	155	–	8,347
AP-82	DUP-S-F	07-Apr-2026	1	<0.005	<0.05	0.022	<0.05	80	80	5,590	407	–	–	118	–	6,077
AP-83	AP-83	07-Apr-2026	1	<0.005	<0.05	0.044	0.29	361	361	8,430	558	–	–	163	–	9,349
AP-84	AP-84	07-Apr-2026	1	<0.005	<0.05	0.017	<0.05	197	197	7,750	1,020	–	–	130	–	8,967
AP-84	DUP-S-G	07-Apr-2026	1	<0.005	<0.05	0.017	<0.05	187	187	7,870	1,190	–	–	168	–	9,247
B57-W	B57-W-01	14-Apr-2026	1	<0.005	<0.05	0.042	0.12	–	191	2,820	204	–	–	62	–	3,211
B70-E	B70-E-01	14-Apr-2026	1	<0.005	<0.05	<0.01	<0.05	–	<10	54	60	–	–	22	–	301
Site-Specific SQOs (>1.5 mbgs)				–	–	–	–	–	–	10,000 ^(d)	–	–	–	–	–	10,000 ^(d)
BH10-06	BH10-06 2.0-2.2	17-Aug-2010	2.0 - 2.2	<0.005	<0.02	<0.01	<0.04	<12	<12	<10	42	–	–	<10	–	<64
BH10-07	BH10-07 2.0-2.4	18-Aug-2010	2.0 - 2.4	<0.005	<0.02	<0.01	<0.04	14	14	160	45	–	–	<10	–	219
BH10-09	BH10-09 2.0-2.5	18-Aug-2010	2.0 - 2.5	<0.005	<0.02	<0.01	<0.04	<12	<12	12	50	–	–	13	63	–
BH10-11	BH10-11 2.0-2.4	18-Aug-2010	2.0-2.4	<0.005	<0.02	<0.01	<0.04	15	15	12	64	–	–	11	–	91
BH10-12	BH10-12 2.0-2.5	18-Aug-2010	2.0 - 2.5	<0.005	<0.02	<0.01	<0.04	23	23	550	110	–	–	21	–	683
BH10-13	BH10-13 2.0-2.5	19-Aug-2010	2.0 - 2.5	<0.005	<0.02	<0.01	0.14	35	35	1,100	76	–	–	<10	–	1,211
BH10-17	BH10-17 2.0-2.3	19-Aug-2010	2.0 - 2.3	<0.005	<0.02	<0.01	<0.04	<12	<12	45	82	–	–	<10	–	<139
SS11-066	SS11-066	23-Mar-2011	low top of light brown chunk	0.0056	0.03	<0.01	<0.04	<12	<12	<10	<10	–	–	<10	–	<20
SS11-100	SS11-100	27-Mar-2011	lower north wall	0.061	0.37	0.21	1.5	34	34	930	480	–	–	86	–	1,410
MW11-004	MW4 3.0-3.5	15-Apr-2011	3.0 - 3.5	<0.01	<0.04	<0.02	<0.08	<24	<24	41	59	–	–	<20	–	100
MW11-004	MW4 3.5-4.0	15-Apr-2011	3.5 - 4.0	<0.005	<0.02	<0.01	<0.04	<12	<12	19	62	–	–	17	–	81
BH12-01	MW12-01-2.0	29-Jun-2012	2.0	<0.005	<0.02	<0.01	<0.04	<12	–	46	39	–	–	<10	–	<97
	MW12-01-3.0	29-Jun-2012	3.0	<0.005	<0.02	<0.01	<0.04	<12	–	23	15	–	–	<10	–	<50
BH22-01	BH22-01-03	22-Aug-2022	2.30 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	10	75	–	–	<50	<125	–
	BH22-01-04	22-Aug-2022	3.00 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	13	87	–	–	<50	<137	–
BH22-02	BH22-02-02	22-Aug-2022	3.50 - 4.50	0.044	<0.05	0.018	<0.045	<10	<10	18	97	–	–	<50	<147	–
BH22-02	DUPF	22-Aug-2022	3.50 - 4.50	0.038	<0.05	<0.01	<0.045	<10	<10	17	96	–	–	<50	<146	–
BH22-02	BH22-02-03	22-Aug-2022	4.50 - 5.30	0.031	<0.05	0.015	<0.045	<10	<10	20	95	–	–	<50	<145	–

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH22-02	BH22-02-04	22-Aug-2022	5.30 - 6.00	0.037	<0.05	0.033	0.13	<10	<10	18	60	–	–	<50	<110	–
BH22-03	BH22-03-04	21-Aug-2022	2.20 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	<10	<50	–	–	<50	<100	–
BH22-04	BH22-04-03	21-Aug-2022	2.20 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	16	110	–	–	56	166	–
BH22-05	BH22-05-03	21-Aug-2022	2.20 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	19	82	–	–	<50	<132	–
BH22-06	BH22-06-03	20-Aug-2022	2.20 - 3.00	<0.01	<0.1	<0.021	<0.093	<21	<21	13	67	–	–	<50	<117	–
	BH22-06-04	20-Aug-2022	3.00 - 4.50	0.012	<0.05	<0.01	<0.045	<10	<10	24	65	–	–	<50	<115	–
	BH22-06-05	20-Aug-2022	4.50 - 6.00	<0.011	<0.11	<0.021	<0.094	<21	<21	12	64	–	–	<50	<114	–
BH22-07	BH22-07-03	20-Aug-2022	2.20 - 3.00	<0.012	<0.12	<0.023	<0.1	<23	<23	30	74	–	–	<50	–	<127
BH22-08	BH22-08-03	20-Aug-2022	2.10 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	13	68	–	–	<50	<118	–
BH22-09	BH22-09-03	20-Aug-2022	2.20 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	14	75	–	–	<50	<125	–
BH22-10	BH22-10-03	20-Aug-2022	2.20 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	15	70	–	–	<50	<120	–
BH22-11	BH22-11-04	20-Aug-2022	2.30 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	15	67	–	–	<50	<117	–
BH22-12 ^(c)	BH22-12-03	20-Aug-2022	2.20 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	17	81	–	–	<50	<131	–
BH22-13 ^(c)	BH22-13-03	19-Aug-2022	2.20 - 3.00	<0.01	<0.05	<0.021	<0.092	<21	<21	15	75	–	–	<50	<125	–
BH22-14	BH22-14-03	22-Aug-2022	2.20 - 3.00	<0.011	<0.11	<0.022	<0.096	<22	<22	12	73	–	–	<50	<123	–
BH22-15	BH22-15-03	23-Aug-2022	2.20 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	26	110	–	–	<50	<160	–
	BH22-15-04	23-Aug-2022	3.00 - 4.00	<0.005	<0.05	<0.01	<0.045	<10	<10	82	200	–	–	95	295	–
	BH22-15-05	23-Aug-2022	4.00 - 5.00	<0.005	<0.05	<0.01	<0.045	<10	<10	29	89	–	–	<50	<139	–
	BH22-15-06	23-Aug-2022	5.00 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	12	66	–	–	<50	<116	–
BH22-16	BH22-16-03	23-Aug-2022	2.20 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	20	70	–	–	<50	<120	–
	BH22-16-04	23-Aug-2022	3.00 - 4.00	0.011	<0.05	0.046	0.3	<10	<10	45	110	–	–	<50	<160	–
	BH22-16-05	23-Aug-2022	4.00 - 5.00	0.017	0.087	0.033	0.26	<10	<10	160	110	–	–	<50	–	<280
	BH22-16-06	23-Aug-2022	5.00 - 6.00	0.076	0.47	0.14	1.2	<21	<21	470	150	–	–	<50	–	<641
	BH22-16-07	23-Aug-2022	6.00 - 7.00	<0.005	<0.05	<0.01	<0.045	<10	<10	20	81	–	–	<50	<131	–
BH22-17	BH22-17-03	25-Aug-2022	2.50 - 3.00	0.04	<0.05	0.054	0.39	<10	<10	21	61	–	–	<50	<111	–
	BH22-17-04	25-Aug-2022	3.50 - 4.00	0.067	<0.05	<0.01	<0.045	<10	<10	12	<50	–	–	<50	<100	–
BH22-18	BH22-18-03	25-Aug-2022	2.50 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	13	<50	–	–	<50	<100	–
	BH22-18-04	25-Aug-2022	3.50 - 4.00	<0.005	<0.05	0.019	<0.045	<10	<10	140	50	–	–	<50	–	<200
	BH22-18-05	25-Aug-2022	4.50 - 5.00	0.02	<0.05	<0.01	<0.045	<10	<10	33	<50	–	–	<50	–	<93
	BH22-18-06	25-Aug-2022	5.50 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	17	<50	–	–	<50	<100	–
	BH22-18-07	25-Aug-2022	6.50 - 7.00	<0.005	<0.05	<0.01	<0.045	<10	<10	35	85	–	–	<50	<135	–
MW22-01	MW22-01-04	17-Aug-2022	2.25 - 3.00	<0.011	<0.05	<0.021	<0.094	<21	<21	11	61	–	–	<50	<111	–
MW22-02	MW22-02-08	17-Aug-2022	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	14	53	–	–	<50	<103	–
MW22-03	MW22-03-04	17-Aug-2022	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	14	70	–	–	<50	<120	–
P24-B	P24-B65	26-Mar-2024	4.00 - 4.30	<0.005	<0.05	<0.01	<0.04	–	–	–	–	–	–	–	–	1,446
	P24-B24	28-Mar-2024	4.00 - 4.30	<0.005	<0.05	<0.01	<0.04	–	–	–	–	–	–	–	–	1,446
	P24-B84	31-Mar-2024	4.50 - 4.80	<0.005	<0.05	<0.01	<0.04	–	–	–	–	–	–	–	–	1,446
BH24-01	BH24-01-05	04-Apr-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	22	96	–	–	<50	<146	–
	BH24-01-07	04-Apr-2024	4.50 - 5.10	<0.005	<0.05	<0.01	<0.045	<10	<10	27	140	–	–	<50	<190	–
	BH24-01-09	04-Apr-2024	6.00 - 6.75	<0.005	<0.05	<0.01	<0.045	<10	<10	19	85	–	–	<50	<135	–
	DUP EE	04-Apr-2024	6.00 - 6.75	<0.005	<0.05	<0.01	<0.045	<10	<10	24	110	–	–	<50	<160	–
	BH24-01-10	04-Apr-2024	6.75 - 9.50	<0.005	<0.05	<0.01	<0.045	<10	<10	26	110	–	–	<50	<160	–

Table 2
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Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH24-02	BH24-02-04	04-Apr-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	19	130	–	–	<50	<180	–
	BH24-02-05	04-Apr-2024	3.00 - 3.75	0.023	<0.05	<0.01	<0.045	<10	<10	21	140	–	–	<50	<190	–
BH24-02	BH24-02-07	04-Apr-2024	4.50 - 5.25	0.023	<0.05	<0.01	<0.045	<10	<10	27	120	–	–	<50	<170	–
BH24-03	BH24-03-05	02-Apr-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	14	77	–	–	<50	<127	–
	BH24-03-08	02-Apr-2024	5.10 - 5.70	<0.005	<0.05	<0.01	<0.045	<10	<10	18	91	–	–	<50	<141	–
BH24-04	BH24-04-06	05-Apr-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	26	130	–	–	<50	<180	–
	BH24-04-08	05-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	39	130	–	–	<50	<180	–
	DUP GG	05-Apr-2024	5.25 - 6.00	<0.01	<0.1	<0.021	0.16	<21	<21	24	100	–	–	<50	<150	–
	BH24-04-10	05-Apr-2024	6.75 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	16	120	–	–	<50	<170	–
BH24-05	BH24-05-04	27-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	110	260	–	–	80	–	<380
	BH24-05-06	27-Mar-2024	3.75 - 4.50	0.017	<0.05	0.017	<0.045	<10	<10	27	110	–	–	<50	<160	–
BH24-06	BH24-06-04	21-Mar-2024	2.50 - 2.90	<0.005	0.09	<0.01	<0.045	<10	<10	18	94	–	–	<50	<144	–
	BH24-06-05	21-Mar-2024	3.30 - 3.70	0.019	0.11	0.32	2	120	120	5,100	910	–	–	150	–	6,130
	BH24-06-07	21-Mar-2024	4.80 - 5.20	0.024	0.077	0.12	0.81	10	<10	7,000	1,100	–	–	200	–	8,110
	BH24-06-08	21-Mar-2024	5.50 - 6.00	0.025	<0.05	0.2	0.44	31	30	300	150	–	–	<50	–	481
BH24-07	BH24-07-03	21-Mar-2024	1.80 - 2.10	0.018	<0.05	0.13	0.18	26	26	960	170	–	–	<50	–	1,156
	BH24-07-04	21-Mar-2024	2.60 - 2.90	0.043	<0.05	0.39	0.24	14	14	640	120	–	–	<50	–	774
	DUP C	21-Mar-2024	2.60 - 2.90	<0.005	<0.05	<0.01	<0.045	<10	<10	150	94	–	–	<50	–	<254
	BH24-07-07	21-Mar-2024	4.90 - 5.40	<0.005	<0.05	0.022	<0.045	<10	<10	59	80	–	–	<50	–	<149
	BH24-07-08	21-Mar-2024	5.70 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	16	69	–	–	<50	<119	–
BH24-08	BH24-08-04	22-Mar-2024	2.75 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	310	160	–	–	<50	–	<480
	BH24-08-06	22-Mar-2024	4.20 - 4.40	<0.005	<0.05	<0.01	<0.045	<10	<10	21	110	–	–	<50	<160	–
	BH24-08-08	22-Mar-2024	4.50 - 5.85	<0.005	<0.05	<0.01	<0.045	<10	<10	20	110	–	–	<50	<160	–
	BH24-08-07	22-Mar-2024	4.80 - 5.00	<0.005	<0.05	<0.01	<0.045	<10	<10	19	110	–	–	<50	<160	–
BH24-09	BH24-09-06	23-Mar-2024	4.10 - 4.40	<0.005	<0.05	<0.01	<0.045	<10	<10	23	110	–	–	<50	<160	–
	BH24-09-07	23-Mar-2024	4.80 - 5.10	<0.005	<0.05	<0.01	0.049	20	20	1,100	250	–	–	120	–	1,370
	BH24-09-08	23-Mar-2024	5.60 - 6.00	<0.005	<0.05	0.036	0.35	46	46	2,600	280	–	–	100	–	2,926
	BH24-09-10	23-Mar-2024	7.20 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	24	130	–	–	<50	<180	–
BH24-10	BH24-10-05	03-Apr-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	190	140	–	–	<50	–	<340
	BH24-10-08	03-Apr-2024	5.25 - 6.00	<0.005	<0.05	0.021	0.045	<10	<10	600	300	–	–	89	–	<910
BH24-11	BH24-11-04	31-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	19	82	–	–	<50	<132	–
	BH24-11-05	31-Mar-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	1,000	400	–	–	110	–	<1410
	BH24-11-07	31-Mar-2024	4.50 - 5.25	<0.005	<0.05	<0.01	<0.045	<10	<10	290	240	–	–	110	–	<540
	BH24-11-08	31-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	54	120	–	–	<50	–	<184
	DUP W	31-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	82	–	–	<50	<132	–
BH24-12	BH24-12-04	03-Apr-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	14	80	–	–	<50	<130	–
	BH24-12-06	03-Apr-2024	3.75 - 4.50	<0.011	<0.05	<0.01	<0.1	<23	<23	20	110	–	–	<50	<160	–
	BH24-12-08	03-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	13	68	–	–	<50	<118	–
BH24-13	BH24-13-03	22-Mar-2024	2.00 - 2.30	<0.005	<0.05	<0.01	<0.045	<10	<10	46	99	–	–	<50	<149	–
	BH24-13-05	22-Mar-2024	2.40 - 2.60	<0.005	<0.05	<0.01	<0.045	<10	<10	22	120	–	–	<50	<170	–
	BH24-13-07	22-Mar-2024	4.90 - 5.10	<0.005	<0.05	<0.01	<0.045	<10	<10	110	140	–	–	<50	–	<260
	BH24-13-08	22-Mar-2024	5.70 - 5.90	<0.005	<0.05	<0.01	<0.045	<10	<10	16	79	–	–	<50	<129	–

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Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH24-14	BH24-14-03	23-Mar-2024	1.80 - 2.20	<0.005	<0.05	0.019	<0.045	15	15	2,000	240	–	–	89	–	2,255
	BH24-14-05	23-Mar-2024	3.60 - 3.80	<0.005	<0.05	<0.01	<0.045	<10	<10	25	180	–	–	96	276	–
	BH24-14-07	23-Mar-2024	4.80 - 5.20	<0.005	<0.05	<0.01	<0.045	<10	<10	23	120	–	–	<50	<170	–
	BH24-14-08	23-Mar-2024	5.60 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	39	160	–	–	68	228	–
BH24-15	BH24-15-05	01-Apr-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	27	27	2,300	180	–	–	56	–	2,507
	BH24-15-08	01-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	33	87	–	–	<50	<137	–
	DUP Z	01-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	23	87	–	–	<50	<137	–
BH24-16	BH24-16-03	03-Apr-2024	3.00 - 4.50	<0.005	<0.05	0.021	0.21	43	43	3,300	150	–	–	<50	–	3,493
	BH24-16-04	03-Apr-2024	5.50 - 5.70	<0.005	<0.05	<0.01	0.14	49	49	2,200	140	–	–	<50	–	2,389
BH24-17	BH24-17-04	28-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	21	100	–	–	<50	<150	–
	BH24-17-05	28-Mar-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	20	83	–	–	<50	<133	–
	BH24-17-07	28-Mar-2024	4.50 - 5.25	<0.005	<0.05	<0.01	<0.045	<10	<10	18	66	–	–	<50	<116	–
	DUP Q	28-Mar-2024	4.50 - 5.25	<0.005	<0.05	<0.01	<0.045	<10	<10	19	83	–	–	<50	<133	–
	BH24-17-08	28-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	16	66	–	–	<50	<116	–
BH24-18	BH24-18-03	25-Mar-2024	1.80 - 2.30	0.013	<0.05	<0.01	<0.045	<10	<10	43	180	–	–	<50	<230	–
	BH24-18-04	25-Mar-2024	2.60 - 3.00	0.029	<0.05	0.14	0.088	36	35	830	130	–	–	<50	–	996
	DUP I	25-Mar-2024	2.60 - 3.00	0.025	<0.05	0.095	<0.045	13	13	630	110	–	–	<50	–	753
	BH24-18-06	25-Mar-2024	4.30 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	21	88	–	–	<50	<138	–
	BH24-18-07	25-Mar-2024	4.80 - 5.30	<0.005	<0.05	<0.01	<0.045	<10	<10	39	130	–	–	<50	<180	–
	BH24-18-08	25-Mar-2024	5.60 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	140	–	–	<50	<190	–
BH24-19	BH24-19-04	22-Mar-2024	2.95 - 3.20	<0.005	<0.05	<0.01	<0.045	<10	<10	25	110	–	–	<50	<160	–
	BH24-19-06	22-Mar-2024	4.20 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	95	–	–	<50	<145	–
	BH24-19-07	22-Mar-2024	4.80 - 5.10	<0.005	<0.05	<0.01	<0.045	<10	<10	22	130	–	–	<50	<180	–
	BH24-19-08	22-Mar-2024	5.70 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	99	–	–	<50	<149	–
	BH24-20-04	25-Mar-2024	2.60 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	15	84	–	–	<50	<134	–
BH24-20	BH24-20-06	25-Mar-2024	4.30 - 4.60	<0.005	<0.05	<0.01	<0.045	<10	<10	21	160	–	–	55	215	–
	BH24-20-07	25-Mar-2024	4.95 - 5.30	<0.005	<0.05	<0.01	<0.045	<10	<10	17	120	–	–	<50	<170	–
	BH24-20-08	25-Mar-2024	5.60 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	130	–	–	<50	<180	–
	BH24-21-04	03-Apr-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	28	120	–	–	<50	<170	–
BH24-21	BH24-21-06	03-Apr-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	19	81	–	–	<50	<131	–
	BH24-21-08	03-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	49	49	1,800	170	–	–	<50	–	2,019
	BH24-22-04	03-Apr-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	24	99	–	–	<50	<149	–
BH24-22	BH24-22-06	03-Apr-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	98	–	–	<50	<148	–
	BH24-22-08	03-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	22	110	–	–	<50	<160	–
BH24-23	BH24-23-04	02-Apr-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	87	–	–	<50	<137	–
	BH24-23-06	02-Apr-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	42	200	–	–	73	273	–
	BH24-23-08	02-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	15	74	–	–	<50	<124	–
BH24-24	BH24-24-04	27-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	62	120	–	–	<50	–	<192
	DUP N	27-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	26	90	–	–	<50	<140	–
	BH24-24-06	27-Mar-2024	3.75 - 4.50	<0.01	<0.05	<0.01	<0.045	<10	<10	23	110	–	–	<50	<160	–
BH24-25	BH24-25-05	22-Mar-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	19	120	–	–	<50	<170	–
	BH24-25-07	22-Mar-2024	4.50 - 5.30	<0.005	<0.05	<0.01	<0.045	<10	<10	19	160	–	–	86	246	–
	BH24-25-08	22-Mar-2024	5.30 - 6.00	<0.013	<0.12	<0.026	<0.11	<24	<24	20	110	–	–	<50	<160	–
BH24-26	BH24-26-05	26-Mar-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	1,300	140	–	–	<50	–	<1450
	BH24-26-06	26-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	23	120	–	–	<50	<170	–

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH24-27	BH24-27-04	26-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	26	110	–	–	<50	<160	–
	BH24-27-06	26-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	18	95	–	–	<50	<145	–
BH24-28	BH24-28-05	01-Apr-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	27	130	–	–	<50	<180	–
	BH24-28-08	01-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	16	83	–	–	<50	<133	–
BH24-29	BH24-29-05	01-Apr-2024	3.20 - 4.10	<0.005	<0.05	<0.01	<0.045	<10	<10	25	150	–	–	<50	<200	–
	BH24-29-07	01-Apr-2024	4.50 - 5.25	<0.005	<0.05	<0.01	<0.045	<10	<10	17	82	–	–	<50	<132	–
	BH24-29-08	01-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	21	120	–	–	<50	<170	–
BH24-30	BH24-30-04	28-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	29	130	–	–	<50	<180	–
	BH24-30-06	28-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	19	110	–	–	<50	<160	–
BH24-31	BH24-31-05	27-Mar-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	25	87	–	–	<50	<137	–
	BH24-31-07	27-Mar-2024	4.50 - 4.90	<0.005	<0.05	<0.01	<0.045	<10	<10	31	91	–	–	<50	<141	–
	BH24-31-08	27-Mar-2024	4.90 - 5.20	<0.005	<0.05	<0.01	<0.045	<10	<10	17	81	–	–	<50	<131	–
BH24-32	BH24-32-04	27-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	22	110	–	–	<50	<160	–
	DUP O	27-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	19	120	–	–	<50	<170	–
	BH24-32-06	27-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	25	130	–	–	<50	<180	–
BH24-33	BH24-33-05	27-Mar-2024	3.00 - 3.75	<0.005	<0.05	0.025	<0.045	<10	<10	29	160	–	–	<50	<210	–
	BH24-33-07	27-Mar-2024	4.50 - 5.25	<0.005	<0.05	<0.01	<0.045	<10	<10	28	210	–	–	69	279	–
	BH24-33-08	27-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	26	200	–	–	68	268	–
BH24-34	BH24-34-05	29-Mar-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	24	110	–	–	<50	<160	–
	BH24-34-08	29-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	22	120	–	–	<50	<170	–
	BH24-34-09	29-Mar-2024	6.00 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	26	150	–	–	53	203	–
BH24-35	BH24-35-04	26-Mar-2024	2.25 - 3.00	<0.005	<0.05	0.039	0.11	26	26	420	180	–	–	63	–	626
	BH24-35-06	26-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	19	110	–	–	<50	<160	–
	BH24-35-08	26-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	97	–	–	<50	<147	–
BH24-36	BH24-36-05	28-Mar-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	680	110	–	–	<50	–	<800
	BH24-36-07	28-Mar-2024	4.50 - 4.90	<0.005	<0.05	<0.01	<0.045	<10	<10	19	110	–	–	<50	<160	–
BH24-37	BH24-37-04	25-Mar-2024	2.60 - 2.90	<0.005	<0.05	<0.01	<0.045	<10	<10	44	98	–	–	<50	<148	–
	BH24-37-05	25-Mar-2024	3.30 - 3.70	<0.005	<0.05	<0.01	<0.045	<10	<10	22	130	–	–	<50	<180	–
	BH24-37-07	25-Mar-2024	4.80 - 5.10	<0.005	<0.05	<0.01	<0.045	<10	<10	22	110	–	–	<50	<160	–
	BH24-37-09	25-Mar-2024	6.00 - 6.40	<0.005	<0.05	<0.01	<0.045	<10	<10	27	120	–	–	<50	<170	–
	BH24-37-10	25-Mar-2024	6.90 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	24	100	–	–	<50	<150	–
	DUP J	25-Mar-2024	6.90 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	19	85	–	–	<50	<135	–
BH24-38	BH24-38-04	24-Mar-2024	2.90 - 3.40	<0.005	<0.05	0.03	0.2	32	32	2,800	410	–	–	120	–	3,242
	BH24-38-05	24-Mar-2024	3.80 - 4.20	<0.005	<0.05	<0.01	<0.045	<10	<10	26	140	–	–	<50	<190	–
	BH24-38-07	24-Mar-2024	4.90 - 5.30	<0.005	<0.05	<0.01	<0.045	<10	<10	160	200	–	–	79	–	<370
	BH24-38-08	24-Mar-2024	5.50 - 5.90	<0.005	<0.05	<0.01	<0.045	<10	<10	32	150	–	–	<50	<200	–
BH24-39	BH24-39-03	24-Mar-2024	1.80 - 2.20	<0.005	<0.05	<0.01	<0.045	<10	<10	20	190	–	–	71	261	–
	BH24-39-06	24-Mar-2024	4.20 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	11	59	–	–	<50	<109	–
	BH24-39-08	24-Mar-2024	5.60 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	93	–	–	<50	<143	–
	BH24-39-09	24-Mar-2024	6.20 - 6.50	<0.005	<0.05	<0.01	<0.045	<10	<10	16	75	–	–	<50	<125	–
	BH24-39-10	24-Mar-2024	7.10 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	22	110	–	–	<50	<160	–
BH24-40	BH24-40-04	26-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	25	160	–	–	60	220	–
	BH24-40-06	26-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	110	–	–	<50	<160	–
	BH24-40-08	26-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	16	91	–	–	<50	<141	–
	BH24-40-10	26-Mar-2024	6.75 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	21	130	–	–	<50	<180	–

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH24-41	BH24-41-05	24-Mar-2024	3.60 - 4.10	<0.005	<0.05	<0.01	<0.045	<10	<10	19	83	–	–	<50	<133	–
	BH24-41-06	24-Mar-2024	4.20 - 4.40	<0.005	<0.05	<0.01	<0.045	<10	<10	18	91	–	–	<50	<141	–
	BH24-41-08	24-Mar-2024	5.60 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	22	110	–	–	<50	<160	–
	BH24-41-09	24-Mar-2024	6.30 - 6.60	<0.005	<0.05	<0.01	<0.045	<10	<10	24	130	–	–	<50	<180	–
BH24-42	BH24-42-03	25-Mar-2024	1.80 - 2.30	<0.005	<0.05	<0.01	<0.045	<10	<10	19	100	–	–	<50	<150	–
	BH24-42-05	25-Mar-2024	3.40 - 4.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	96	–	–	<50	<146	–
	BH24-42-07	25-Mar-2024	4.70 - 5.20	<0.005	<0.05	<0.01	<0.045	<10	<10	22	120	–	–	<50	<170	–
	BH24-42-09	25-Mar-2024	6.40 - 6.80	<0.005	<0.05	<0.01	<0.045	<10	<10	19	97	–	–	<50	<147	–
	BH24-42-10	25-Mar-2024	7.20 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	15	63	–	–	<50	<113	–
BH24-43	BH24-43-03	24-Mar-2024	1.80 - 2.30	<0.005	<0.05	<0.01	<0.045	<10	<10	20	120	–	–	<50	<170	–
	BH24-43-06	24-Mar-2024	4.10 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	19	93	–	–	<50	<143	–
	BH24-43-08	24-Mar-2024	5.60 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	20	110	–	–	<50	<160	–
	DUP G	24-Mar-2024	5.60 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	14	63	–	–	<50	<113	–
	BH24-43-09	24-Mar-2024	6.20 - 6.60	<0.005	<0.05	<0.01	<0.045	<10	<10	24	180	–	–	82	262	–
	BH24-43-10	24-Mar-2024	7.20 - 7.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	240	–	–	140	380	–
BH24-44 ^(c)	BH24-44-04	30-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	28	130	–	–	<50	<180	–
	BH24-44-06	30-Mar-2024	3.75 - 4.10	<0.015	<0.12	<0.031	<0.14	<24	<24	28	190	–	–	88	278	–
	BH24-44-08	30-Mar-2024	5.25 - 6.00	<0.012	<0.12	<0.023	<0.1	<23	<23	25	110	–	–	<50	<160	–
BH24-45 ^(c)	BH24-45-04	30-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	28	130	–	–	<50	<180	–
	BH24-45-06	30-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	25	130	–	–	<50	<180	–
	BH24-45-08	30-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	21	110	–	–	<50	<160	–
BH24-46	BH24-46-05	05-Apr-2024	3.00 - 3.75	0.039	0.19	0.19	1.4	40	39	1,400	290	–	–	95	–	1,730
	BH24-46-08	05-Apr-2024	5.25 - 6.00	0.023	0.15	0.058	0.57	19	18	130	130	–	–	<50	–	279
BH24-47	BH24-47-06	04-Apr-2024	3.75 - 4.50	0.047	0.15	0.09	0.6	10	<10	2,400	390	–	–	88	–	2,800
	BH24-47-07	04-Apr-2024	4.50 - 5.25	0.034	<0.05	0.024	0.13	<10	<10	22	130	–	–	<50	<180	–
	BH24-47-08	04-Apr-2024	5.25 - 6.00	0.093	0.19	0.052	0.36	<10	<10	21	93	–	–	<50	<143	–
BH24-48	BH24-48-04	05-Apr-2024	2.25 - 3.00	<0.005	<0.05	0.019	<0.045	<10	<10	190	110	–	–	<50	–	<310
	BH24-48-06	05-Apr-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	25	110	–	–	<50	<160	–
	BH24-48-08	05-Apr-2024	5.25 - 6.00	<0.005	<0.05	0.033	0.15	<10	<10	55	85	–	–	<50	–	<150
BH24-49	BH24-49-03	31-Mar-2024	2.10 - 3.00	<0.005	<0.05	0.043	0.28	<10	<10	92	110	–	–	<50	–	<212
	DUP Y	31-Mar-2024	2.10 - 3.00	0.026	<0.05	0.04	0.23	<10	<10	60	200	–	–	72	272	–
	BH24-49-04	31-Mar-2024	3.00 - 3.75	0.03	<0.05	0.024	0.16	<10	<10	230	190	–	–	60	–	<430
	BH24-49-06	31-Mar-2024	4.50 - 5.20	0.024	<0.05	<0.01	<0.045	<10	<10	51	140	–	–	53	193	–
	BH24-49-07	31-Mar-2024	5.60 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	46	100	–	–	<50	<150	–
BH24-50	BH24-50-04	31-Mar-2024	2.25 - 3.00	0.012	<0.05	0.041	0.19	<10	<10	710	410	–	–	85	–	<1130
	BH24-50-06	31-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	23	110	–	–	<50	<160	–
	BH24-50-08	31-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	20	91	–	–	<50	<141	–
	DUP X	31-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	23	120	–	–	<50	<170	–
BH24-51	BH24-51-04	31-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	22	110	–	–	<50	<160	–
	BH24-51-06	31-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	24	110	–	–	<50	<160	–
	BH24-51-08	31-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	41	100	–	–	<50	<150	–

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
Former Unipkat I-22 Wellsite, Inuvialuit Settlement Region, Northwest Territories
Shell Canada Limited

Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH24-52	BH24-52-04	21-Mar-2024	2.60 - 2.90	0.0098	<0.05	<0.01	<0.045	<10	<10	34	110	–	–	<50	<160	–
	BH24-52-05	21-Mar-2024	3.40 - 3.70	<0.005	<0.05	<0.01	<0.045	<10	<10	21	88	–	–	<50	<138	–
	BH24-52-06	21-Mar-2024	3.90 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	88	100	–	–	<50	–	<198
	BH24-52-07	21-Mar-2024	4.80 - 5.10	0.013	<0.05	0.025	0.1	<10	<10	62	65	–	–	<50	–	<137
BH24-53	BH24-53-03	21-Mar-2024	1.90 - 2.20	0.018	<0.05	<0.01	<0.045	<10	<10	65	100	–	–	<50	–	<175
	DUP B	21-Mar-2024	1.90 - 2.20	0.011	<0.05	<0.01	<0.045	<10	<10	63	100	–	–	<50	–	<173
	BH24-52-08	21-Mar-2024	5.70 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	81	–	–	<50	<131	–
	BH24-53-06	21-Mar-2024	4.20 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	17	79	–	–	<50	<129	–
	BH24-53-08	21-Mar-2024	5.70 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	78	–	–	<50	<128	–
BH24-54	BH24-54-03	20-Mar-2024	1.90 - 2.20	0.019	<0.05	0.024	0.13	<10	<10	530	210	–	–	58	–	<750
	BH24-54-05	20-Mar-2024	3.40 - 3.60	<0.005	<0.05	<0.01	<0.045	<10	<10	120	85	–	–	<50	–	<215
	BH24-54-06	20-Mar-2024	4.00 - 4.30	0.011	<0.05	0.037	0.21	13	12	1,400	220	–	–	53	–	1,633
	BH24-54-07	20-Mar-2024	4.80 - 5.10	<0.005	<0.05	<0.01	<0.045	<10	<10	140	110	–	–	<50	–	<260
	DUP A	20-Mar-2024	4.80 - 5.10	<0.011	<0.11	<0.021	<0.095	<21	<21	120	100	–	–	<50	–	<241
	BH24-54-08	20-Mar-2024	5.30 - 5.60	<0.005	<0.05	<0.01	<0.045	<10	<10	150	170	–	–	64	–	<330
BH24-56	BH24-56-05	30-Mar-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	25	130	–	–	<50	<180	–
	BH24-56-07	30-Mar-2024	4.50 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	19	120	–	–	50	170	–
BH24-57	BH24-57-04	29-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	22	110	–	–	<50	<160	–
	BH24-57-06	29-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	17	84	–	–	<50	<134	–
	BH24-57-08	29-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	15	69	–	–	<50	<119	–
BH24-58	BH24-58-04	29-Mar-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	20	180	–	–	61	241	–
	BH24-58-06	29-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	120	–	–	<50	<170	–
	BH24-58-08	29-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	25	170	–	–	60	230	–
BH24-59	BH24-59-06	29-Mar-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	20	100	–	–	<50	<150	–
	BH24-59-08	29-Mar-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	18	98	–	–	<50	<148	–
BH24-60 ^(c)	BH24-60-04	05-Apr-2024	2.25 - 3.00	<0.005	<0.05	<0.01	<0.045	<10	<10	20	210	–	–	75	285	–
	BH24-60-06	05-Apr-2024	3.75 - 4.50	<0.005	<0.05	<0.01	<0.045	<10	<10	14	90	–	–	<50	<140	–
	BH24-60-08	05-Apr-2024	5.20 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	15	96	–	–	<50	<146	–
BH24-61	BH24-61-05	05-Apr-2024	3.00 - 3.75	<0.005	<0.05	<0.01	<0.045	<10	<10	20	130	–	–	<50	<180	–
	BH24-61-07	05-Apr-2024	4.50 - 5.25	<0.005	<0.05	<0.01	<0.045	<10	<10	12	91	–	–	<50	<141	–
	BH24-61-08	05-Apr-2024	5.25 - 6.00	<0.005	<0.05	<0.01	<0.045	<10	<10	12	79	–	–	<50	<129	–
P24-B	P24-B73	25-Mar-2024	2.70 - 3.00	<0.005	<0.05	<0.01	<0.04	–	–	–	–	–	–	–	–	1,446
	DUP 01	21-Mar-2024	2.80 - 3.10	<0.005	<0.05	0.054	0.21	67	67	1,300	79	–	–	<50	–	1,446
	P24-B14	23-Mar-2024	2.80 - 3.00	<0.005	<0.05	<0.01	<0.04	–	–	–	–	–	–	–	–	1,446
BH26-15	BH26-15-05	30-Mar-2026	2.25 - 3.00	<0.005	<0.05	0.082	0.05	111	111	12,500	209	–	–	58	–	12,820
	DUP-S-B	30-Mar-2026	2.25 - 3.00	<0.005	<0.05	0.065	0.06	144	144	15,000	293	–	–	73	–	15,437
	BH26-16-05	29-Mar-2026	2.25 - 3.00	<0.005	<0.05	<0.01	<0.05	<10	<10	38	102	–	–	33	–	<150

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
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Sample Location	Sample ID	Sample Date	Sample Depth (mbgs)	Benzene	Toluene	Ethylbenzene	Xylenes	F1 (C ₆ -C ₁₀)	F1 (C ₆ -C ₁₀) - BTEX	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F3a (C ₁₆ -C ₂₂)	F3b (C ₂₂ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	Type A (F3+F4)	Type B (F1+F2+F3)
BH26-18	BH26-18-01	30-Mar-2026	2.00 - 2.50	<0.005	<0.05	0.026	0.06	313	313	6,730	189	–	–	50	–	7,232
BH26-28	BH26-28-05	29-Mar-2026	2.25 - 3.00	<0.005	<0.05	<0.01	<0.05	<10	<10	15	133	–	–	73	206	–
B57-W	B57-W-02	14-Apr-2026	2	<0.005	<0.05	<0.01	<0.05	–	<10	44	69	–	–	27	–	300
B70-E	B70-E-02	14-Apr-2026	2	<0.005	<0.05	<0.01	<0.05	–	<10	40	101	–	–	50	–	328

Notes:

Bold	- value exceeds applied guideline, standard or criteria
Bold	- laboratory RDL above applied guideline, standard or criteria

^(a) Protection of Wildlife Soil and Food ingestion (EPA 2024)
^(b) Protection of Wildlife and Avifauna Soil and Food ingestion (INAC 2008a,b)
^(c) Background sampling location.
^(d) Management limit, fine-grained soil (CCME 2008)
^(e) Management limit (INAC 2008a,b)
BTEX - benzene, toluene, ethylbenzene, xylenes
F1, F2, F3, F4 - petroleum hydrocarbon fractions 1, 2, 3, 4
m - metre
mbgs - metres below ground surface
mg/kg - milligrams per kilogram
RDL - reportable detection limit
SQO - soil quality objective
> - greater than
< - less than
≤ - less than or equal to
– not applicable, no data or no guideline/standard available