

April 30, 2024 Project No.: 24046

Township of Esquimalt – Public Works c/o Ken Gawryluk 601 Canteen Road, Esquimalt, BC V9A 3R2 Ken.gawryluk@esquimalt.ca

RE: Environmental Overview – Liquid Fuel Tank System Removal 601 Canteen Road, Esquimalt, BC

INTRODUCTION

Wittich Environmental Services Ltd. (WES) was retained by the Township of Esquimalt – Public Works c/o Ken Gawryluk (the "Client") to provide environmental consulting services related to the removal of an existing liquid fuel tank system at 601 Canteen Road, Esquimalt, BC (the "Site). We understand the Client is requesting this work for due diligence as part of proposed infrastructure upgrades at the Site.

We understand that this letter will be included within a tender package for contractors to bid on the project. It is worth noting that WES is an environmental consultant and can be reasonably relied upon to provide appropriate recommendations related to the environmental components of the project. That said, WES is not a contractor and should not be solely relied upon to outline *all* applicable health and safety regulations and/or specific permitting requirements.

Background

WES was provided the following documents which collectively form our project understanding:

- Tender Documents Liquid Fuel Tank System Removals and Installations Township of Esquimalt Public Works Yard – 604 Canteen Road (Jan 2024; 66 pages)
- Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products (PN 1326) – Canadian Council of Ministers of the Environment (CCME) (2003-2015; 68 pages)
- Canadian Construction Documents Committee (CCDC) 2 2020 Stipulated Price Contract
- CCDC 41 Insurance Requirements (Dec 2020)

WES also attended the Site on February 29, 2024 to interview the Client and assess the existing refueling infrastructure. During the Site visit, the Client informed WES of the following:

• There are 2 x 4,500 Litre (L) Underground Storage Tanks (USTs) on-Site that require removal/replacement.



- The tanks are believed to have been installed in 1994, constructed of single-wall fiberglass and backfilled with pea-gravel. There are no installation records available.
- One tank contains gasoline while the other tank contains diesel.
- Bedrock is believed to be near surface on-Site and blasting was required to facilitate the original underground installation.
- There are two observations wells noted in the concrete pad.

Additionally, in an email on February 23, 2023, the Client posed the following questions:

- What is the proper procedure to remove UST with fuel?
- Is it mandatory to remove Underground Fuel Tanks? Can they be cleaned & filled with sand?
- Once the tanks are removed, what locations should the soil be tested and how many samples?
- What would be required if the test results come back over the MAC (maximum allowable concentration) in a large area? Do we just record the data for future reference in case the land is ever sold, re-zoned, and/or developed?

The most current guidance on <u>Potential Contaminants of Concern (PCOCs)</u> identify the following PCOCs related to gasoline and diesel refueling:

• Light Extractable Petroleum Hydrocarbons (LEPH), Heavy Extractable Petroleum Hydrocarbons (HEPH), Volatile Petroleum Hydrocarbons (VPH), Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Polycyclic Aromatic Hydrocarbons (PAHs), Gasoline & Diesel Volatile Organic Compounds (VOCs)¹.

Regulatory Framework

Standards

The BC Contaminated Site Regulation (CSR) has numerical standards that regulate soil, groundwater and soil vapour media based on the ground level Site use. The primary land use for the Site is considered Commercial; therefore, the Commercial Soil Standards (CL) apply to soil and soil vapour at the Site. Applicable soil pathways include intake of contaminated soil, groundwater used for drinking water, groundwater flow to a marine water and toxicity to soil invertebrates and plants. In groundwater, Drinking Water (DW) and Marine Aquatic Life (AWm) standards are considered applicable at this stage of investigation as the site is located in the area of a mapped aquifer and within 500 m of a marine aquatic receiving environment.

¹ Gasoline & Diesel VOCs: 1,2,4-trimethylbenzene; 1,2-dibromoethane; 1,2-dichloroethane; 1,3-butadiene; 1,3,5-trimethylbenzene; decane; hexane; isopropylbenzene; methylcyclohexane; cyclohexene



Clean Soil Relocation

The requirements for inferred clean soil relocation in BC have undergone changes based on the adoption of the <u>Stage 14 amendments</u> to the CSR which came into effect March 1, 2023. As of this date, soils from sites with current or former <u>Schedule 2</u> activities (i.e. the Site) generally require characterization according to <u>Protocol 19</u> before relocating.

Scope of Work

The scope of work for this Environmental Overview includes the following:

- Evaluating the depth to water, if present, within the UST nest (the area immediately surrounding the USTs);
- Collecting and analyzing a sample from each of the two observation wells installed in the UST nest (if present) for Potential Contaminants of Concern (PCOCs),
- Prepare a deliverable that includes, but is not limited to, interpreting, reporting and recommending on the following:
 - Results from the water testing,
 - Typical process for removal of liquid fuel USTs,
 - Management of contaminated materials (if required) during removal of the USTs,
 - Specific items to be mindful of when selecting appropriate tank removal contractors,
 - Post removal sampling considerations,
 - Appropriate measures to mitigate potential environmental risk(s) for the property.

Groundwater Sampling Methodology

WES conducted groundwater sampling of the existing observation wells (BH24-01 and BH24-02) on March 15, 2024. Figure 1 illustrates these locations on a site plan. There are no installation records available for the noted observation wells.

Groundwater sampling was completed in general accordance with the <u>BC Field Sampling Manual</u>, <u>Part F – Water and Wastewater Sampling</u>, <u>2020</u>. Groundwater samples were collected from each location using a Solinst Model 410 peristaltic pump system, a low-flow sampling method was used to purge the wells and to collect the groundwater samples. A 10 mm outer diameter HDPE sample tubing was lowered to a depth just above the top of the well screen and the pumping rate was determined as the maximum flow rate that could be achieved while maintaining a steady water level in the well. Low-flow sampling rates were generally maintained at less than 0.1 litres/minute. Water was purged, until in-situ parameters had stabilized, confirmed via measurements from a Hanna HI98130 meter. A minimum of three well volumes below the pump intake were removed prior to sample collection.



Groundwater Results

The results from the groundwater sampling is summarized below.

Field Observations

The following field observations were noted during the groundwater sampling on March 15, 2024.

- The sampled observations wells extended to a depth of approximately 2.9 meters(m) below ground surface (bgs).
- The water table was noted at approximately 1.2 m bgs.
- No non-aqueous phase liquid (NAPL) or free product was measured in the observation wells
- The water was generally clear with faint petroleum hydrocarbon odour at BH24-02 (See Figure 1)
- The water level remained static during the sampling period.

Analytical Results

See attached **Tables** for complete analytical results. **Figure 2** presents the results on a site plan and the lab report is provided in **Appendix B**.

In summary, the groundwater samples collected from BH24-01 and BH24-02 were analyzed for the PCOCs identified above. The tested parameters were all below the applicable standards in each location except for:

• Benzene at BH24-02 which was 12 μ g/L compared to the applicable drinking water standard of 5 μ g/L.

UST Removal Process Overview

British Columbia Fire Code (2018) Section 4.3.16.1. (Underground Storage Tanks) states that "the removal, abandonment in place, disposal or temporary taking out of service of an underground storage tank shall be in conformance with good engineering practice." When a leak is detected in a storage tank the storage tank shall be replaced, the escaped liquid shall be removed and the Chief Fire Official shall be notified within 24 hours of detection of a leak.

Based on the Environmental Code of Practice for Above and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Product, municipal bylaws and guidance documents, a UST shall not be abandoned in place unless it is considered impractical to remove. That is, the removal may compromise a foundation or structure. Since this type of structural issue is not anticipated for this project, it is recommended the USTs be removed. This is also best practice as it limits the potential for future geotechnical issues and/or contamination of the environment.



Based on the above Environmental Code of Practice and WES experience removing USTs in CRD, the general UST removal process can be summarized as follows:

- Obtain all required permits and approvals;
- Place BC One Call prior to start of work and have subsurface utilities located;
- Provide Client with appropriate insurance certificates;
- Make all required notifications (i.e., Esquimalt Fire Department).
- Install temporary fencing around excavation area.
- Empty the USTs by using all the fuel prior to removing.
- Have an electrician licenced to work with petroleum substances disconnect the pumping system and conduct all other electrical work;
- Any residual fuel and/or sludge shall be removed from the storage tank, piping, dispensing, and transfer equipment and disposed of at a licenced disposal facility in accordance with the <u>Transportation of Dangerous Good Act</u> and the <u>Hazardous Waste</u> Regulation.
- The storage tank, piping, dispensing and transfer equipment shall be purged of vapours to less than 10% of the lower flammable limit and the presence of vapour shall be checked with a combustible gas meter;
- Sufficient openings shall be cut in the tanks to render them unfit for further use;
- The USTs shall be removed with a crane and/or excavator(s) and transported to an approved disposal facility.
- A Qualified Professional (QP) shall be retained to oversee the UST removal and to conduct testing of the soil around and under the fuel tanks.
- A "certificate of destruction" or "affidavit of destruction" shall be obtained and provided to the Client by the disposal facility.
- Re-instate the Site with backfill aggregate that meets BC ENV commercial land use standards, compacted to 95 % Standard Proctor and area repayed.

Some additional notes on the work-program are provided below:

- Typically, the fire department needs to be involved via permitting and/or inspections since the removal of storage tank systems shall be in conformance with the National Fire Code of Canada.
- A Spill Response Plan should be developed as part of the Health and Safety Plan for the Site. The spill plan should include a sufficient number of spill response equipment in the event of a spill during UST removal.
- A Groundwater Management Plan should be developed in the event dewatering of the excavation is required.
- A Soil Management Plan should be developed in the event suspected contaminated soils is encountered based on odour and visual evidence of petroleum hydrocarbon impacts,
- Contractors should be Petroleum Oriented Safety Training (POST) Certified Contractors and carry Pollution Liability Insurance.



Environmental Overview Discussion

It is understood that the project objectives are to remove the storage tanks on-Site and completing reasonable efforts to remediate and/or improve the environmental condition of the Site during the removal process. That said, remediating to the applicable standards during the storage tank removal is not the objective and will be completed during an eventual property divesture. Considering the Site is an active Schedule 2, this is considered a reasonable approach.

Based on the data collected during the groundwater sampling, there are residual levels of benzene contamination in the UST nest with no NAPL observed. Considering there was no free product, broadly distributed and/or high concentration petroleum hydrocarbon contamination in the groundwater, the risk of potential worsening site conditions appears limited. The benzene concentrations in the groundwater will naturally biodegrade overtime; therefore, combining the storage tank removal with remedial efforts does not appear well supported at this time.

Considering the benzene in groundwater will naturally remediate, and poses limited additional environmental risk to the Site, it is reasonable to avoid handling the groundwater during the UST removal to minimize costs of the proposed project. As such, in addition to the above general process, the following should be considered during storage tank removal (where possible):

- During the removal of the tanks, efforts should be made to preserve the existing monitoring wells to allow for future monitoring of groundwater qualities.
 - o If destroyed during removal, the Client should consider having a monitoring well installed during re-instatement to allow for monitoring of groundwater qualities.
- The inferred pea gravel overlaying and surrounding the storage tanks should only be removed to the water table (+/- 1.2m bgs).
 - These dry gravels are unlikely to be impacted; therefore, can be temporarily stored on the asphalt surface adjacent to the UST nest until the USTs have been removed.
 - o If the existing fill material surrounding the tanks is not entirely pea gravel, and consist of sufficient fines for lab analysis, samples should be collected according to <u>Technical Guidance 1 (TG1)</u> and analyzed for PCOCs and metals to ensure it meets the applicable BC ENV CL standards.
 - Once the USTs have been removed, and assuming sample results are less than the ENV CL standards, this gravel can be returned in-situ as backfill material.
 - If soil testing results are above the applicable BC ENV CL standards this material should be transported to a licenced disposal facility.
- Once the groundwater table is reached, if possible, the gravel surrounding the USTs should remain in-situ and tank removal should occur.
 - If necessary, gravels can be shifted within the excavation as needed to facilitate removal of the USTs.
 - If this level of gravel movement is inadequate to facilitate tank removal, gravels would need to be stored ex-situ according to the Soil Management Plan.



- At minimum the gravels should be drained in the excavation prior to stockpiling and the stockpile should be temporarily stored on 6-mil polyethylene plastic and configured in a manner that any subsequent drainage from the gravels can be captured and/or drained back into the excavation.
- The testing requirements above for gravels above the water table would apply if the material contains sufficient fines to collect a sample.
- If soil testing results are above the applicable BC ENV CL standards this
 material should not be used as backfill and transported to a licenced
 disposal facility.
- If dewatering is required to facilitate UST removal and/or backfilling requirements,
 the Groundwater Management Plan could be engaged to facilitate dewatering.
- Once the USTs have been removed the QP should test the in-situ soils along the base and walls of the excavation (if any) for the above PCOCs and according to <u>Technical</u> <u>Guidance 1.</u>
 - The QP should prepare an environmental report to the Client summarizing the storage tank removal, and test results.
- Based on the results obtained during the groundwater monitoring, there is unlikely significant soil contamination and excavating contaminated soils during tank removal is not warranted at this time.
 - A complete Site assessment and remediation plan can be developed once the Schedule 2 activity on-site ceases.
- Backfill aggregate should be source from a reputable supplied that meets BC ENV commercial land use standards, compacted to 95 % Standard Proctor and area repaved.

The following environmental reporting requirements also need to be considered:

- If inferred clean soil >30m³ is required to be removed from Site, a QP should be retained to test the soil in accordance with Protocol 19.
- If contaminated media are going to be remediated and managed off-site, a Notice of Independent Remediation (NIR) and Site Risk Classification Report (SRCR).
- If during the execution of this project, 100L of product spills into the environment, the spill
 must be reported to ENV.



Closure

We trust that this information is sufficient for your current needs. Should you require clarification on any part of this letter, please do not hesitate to contact the undersigned.

Sincerely,

Wittich Environmental Services Ltd.



Keith Miller, MSc., AScT. Email: keith@wesltd.net

Enc Figures

Tables

Appendix A – Site Photos Appendix B – Lab Report



LIMITATIONS & CONDITIONS

General Conditions

The material contained in the report reflects Wittich Environmental Services Ltd. (WES) best judgment considering the information available at the time of assessment and report preparation. WES may have also relied on information provided by third parties for the preparation of this report. The accuracy of this report may have been affected by the accuracy of this information.

The reported information is believed to provide a reasonable representation of the general environmental and hydrogeological conditions in the areas assessed. The data presented was collected at specific locations and the conditions may be different in other locations where specific information was not collected.

Findings outlined in the report cannot and should not be extrapolated to areas of the Site or other sites that were not specifically investigated. In addition, only those parameters specifically addressed in this report have been evaluated.

The assessment, conclusion and recommendations provided in this report are intended for the sole use of WES' Client. WES is prepared to provide a onetime project specific use "Letter of Reliance" to a third party at the written request of WES' Client.

When the information in this report is used or relied upon by any party other than WES' Client, WES does not accept any responsibility for the accuracy of any of the data, the analysis or the recommendations contained or referenced in the report, unless otherwise authorized in writing by WES. Any unauthorized use of this report is at the sole risk of the user.

WES reserves the right to modify the opinion contained in this report if new information is discovered or comes to light that was not provided or available at the time of writing.

Limitations of Report

This report pertains to a specific scope of work and to a specific site, developments and adjacent land use as outlined in the report. The conclusions and recommendations set out in this report are based on specific observations, assessments and testing completed on the Site.

This report is applicable for land uses present during the assessment of the Site. Any variation from the identified Site conditions or developments and land use could necessitate additional investigation and assessment. It should be recognized that conditions may vary across the Site and with changes in seasons and these variations could affect the conclusion and recommendations made in this report. The findings, conclusions and recommendations contained in this report are time sensitive.



WES is not qualified to make, and it is not making any recommendations with respect to the purchase, sale, investment or development of any property. These decisions are the sole responsibility of the Client.

Third Party Information

During the performance of the work and the preparation of this report, WES may have relied on information provided by persons other than the Client. While WES endeavors to verify the accuracy of such information when instructed to do so by the Client, WES accepts no responsibility for the accuracy or the reliability of such information, which may affect the conclusion reached in the report.

Standard of Care

Services performed by WES for this project have been conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided.

Technical judgment has been applied in developing the conclusions and/or recommendations provided in this report. No other warranty or guarantee, expressed or implied, is made concerning the test results, conclusions, recommendations, or any other portion of this report.

Electronic Report Format

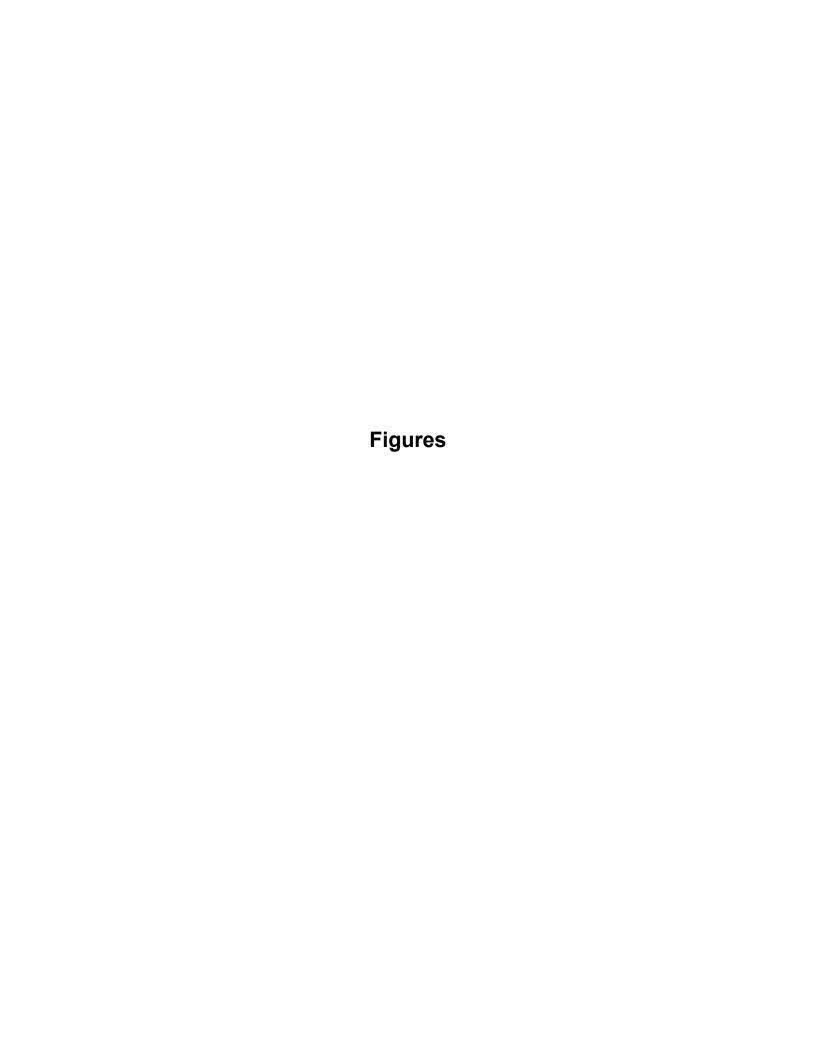
When WES submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables, the signed and sealed hard copy versions shall be considered final and legally binding. The hard copy version submitted by WES shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancies, the hard copy versions shall govern over the electronic versions.

The electronic reports and documents shall be used only and exactly as submitted by WES. Any corruption and change to the content and quality of the electronic reports and documents as a result of subsequent electronic re-transmission will be the sole responsibility of the party completing the retransmission.

The electronic files submitted by WES have been prepared and submitted using specific software and hardware systems in WES' possession at the time of preparation and submission.

While WES endeavours to stay current in the software used, there is no guarantee that the software will be the most recent versions available.

WES makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.





PROJECT NO.

24046

PHASE

01

REV.

V001

Reviewed: KM

Approved: KM

Figure 1



Township of Esquimalt

Reviewed: KM

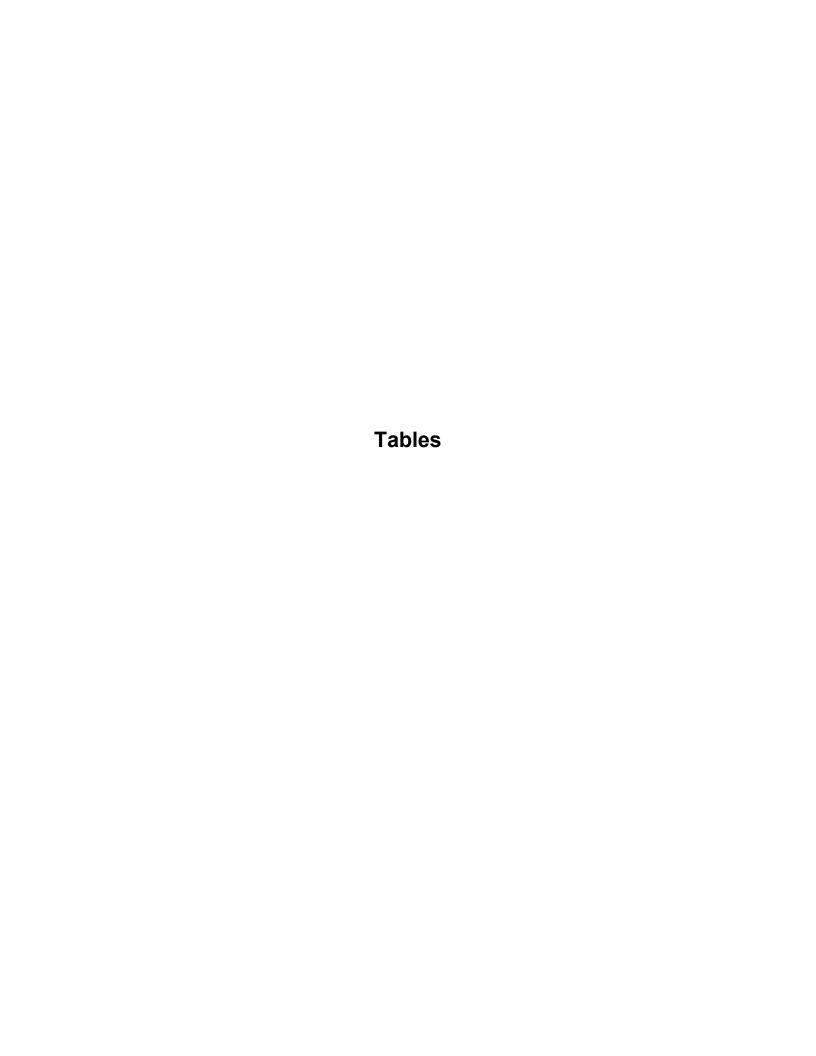
Approved: KM

PROJECT NO. 24046

PHASE 01

REV. V001 **RESULTS**

Figure 2





Wittich Environmental Services Standard Table Notes Groundwater Samples

Groundwater sample results are presented in micrograms per litre (µg/L)

EPH Extractable Petroleum Hydrocarbons, not corrected for PAH
LEPH Light Extractable Petroleum Hydrocarbons, corrected for PAH
HEPH Heavy Extractable Petroleum Hydrocarbons, corrected for PAH

PAH Polycyclic Aromatic Hydrocarbons

MAH Monocyclic Aromatic Hydrocarbons (benzene, toluene, ethylbenzene, xylenes)

MTBE Methyl Tert-Butyl Ether
VOC Volatile Organic Compounds
RDL Reportable Detection Limit
GS Grab Sample of Groundwater
< Less than the stated detection limit

Not analyzed

CSR Contaminated Sites Regulation

DW Drinking Water Use
AW Aquatic Water Use
IW Irrigation Water Use
LW Livestock Water Use

Shaded and Bold Greater than the most stringent of the applicable CSR standards

Shaded and Bold Lower than the BC CSR Technical Bulletin 3 Regional Background Concentration

EQL Estimated Quantitation Limit

Empty cell indicates no laboratory analysis completed

BC CSR standards for certain metals are pH dependent. Standards for these specific metals are presented in a range; with the most stringent standard corresponding to lower pH values and the most lenient standard corresponding to higher pH values.

Relative Percent Differences have only been considered where a concentration is greater than 5 times the EQL.



Table 1 Water Results - Extractable Petroleum Hydrocarbons 601 Canteen Road, Esquimalt, BC.

		PH	ICs	
	ЕРН С10-С19	ЕРН С19-С32	наэн	НЕРН
	μg/L	μg/L	μg/L	μg/L
EQL	250	250	250	250
Schedule 3.2 Water AW - Aquatic Life (Marine and Estuarine)	5,000			500
Schedule 3.2 Water DW - Drinking Water	5,000			

Date	Location Code	Sample Code	Field ID				
15 Mar 2024	BH24-01	VA24A5578-001	BH24-01	<250	<250	<250	<250
15 Mar 2024	BH24-02	VA24A5578-002	BH24-02	<250	<250	<250	<250

Environmental Standards

BC MoE, March 2021, BC Schedule 3.2 Water AW - Aquatic Life (Marine and Estuarine) BC MoE, March 2021, BC Schedule 3.2 Water DW - Drinking Water



Table 2
Water Results - Monocyclic Aromatic Hydrocarbons

1 - 1

601 Canteen Road, Esquimalt, BC.

					M	AH				
	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Styrene	MTBE	VH C6-C10	VPH (C6-C10)
	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
EQL	0.5	0.5	0.5	0.4	0.3	0.5	0.5	0.5	100	100
Schedule 3.2 Water AW - Aquatic Life (Marine and Estuarine)	1,000	2,000	2,500			300	720	4,400	15,000	1,500
Schedule 3.2 Water DW - Drinking Water	5	60	140			90	800	95	15.000	

Date	Location Code	Sample Code	Field ID										
15 Mar 2024	BH24-01	VA24A5578-001	BH24-01	<0.50	<0.50	<0.50	<0.40	< 0.30	<0.50	<0.50	<0.50	<100	<100
15 Mar 2024	BH24-02	VA24A5578-002	BH24-02	12.0	<0.50	2.02	1.26	5.72	6.98	<0.50	<0.50	<100	<100

Environmental Standards

BC MoE, March 2021, BC Schedule 3.2 Water AW - Aquatic Life (Marine and Estuarine)

BC MoE, March 2021, BC Schedule 3.2 Water DW - Drinking Water



1 - 1

Water Results - Polycyclic Aromatic Hydrocarbons 601 Canteen Road, Esquimalt, BC.

											PAH										
	Benzo(b+j+k)fluoranthene	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Acridine	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)pervlene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-¢,d)pyrene	Naphthalene	Phenanthrene	Ругепе	Quinoline
	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
EQL	0.015	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.05	0.02	0.01	0.05
Schedule 3.2 Water AW - Aquatic Life (Marine and Estuarine)				60		0.5	1	1	0.1				1		2	120		10	3	0.2	34
Schedule 3.2 Water DW - Drinking Water		5.5	15	250			1,000	0.07	0.01	0.07			7	0.01	150	150		80		100	0.05

Date 15 Mar 2024 15 Mar 2024 Field ID BH24-01 BH24-02 VA24A5578-001 VA24A5578-002 BH24-01 BH24-02

Environmental Standards
BC MoE, March 2021, BC Schedule 3.2 Water AW - Aquatic Life (Marine and Estuarine)
BC MoE, March 2021, BC Schedule 3.2 Water DW - Drinking Water



Table 4
Water Results - Volatile Organic Compounds

1 - 1

601 Canteen Road, Esquimalt, BC.

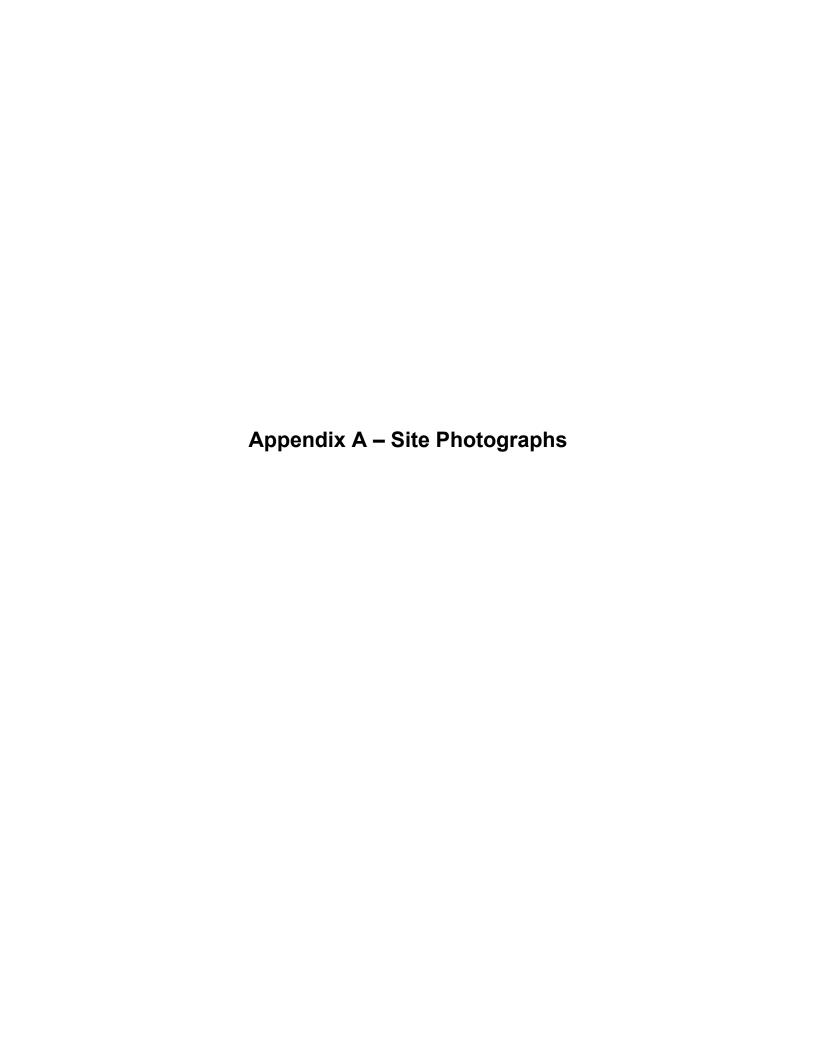
	Solvents					VOCs				
	Cyclohexane	1,2,4-trimethylbenzene	1,2-dibromoethane	1,2-dichloroethane	1,3-Butadiene	1,3,5-trimethylbenzene	Decane	Hexane	Isopropylbenzene	Methylcyclohexane
	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
EQL	1	1	0.2	1	0.2	1	1	1	1	1
Schedule 3.2 Water AW - Aquatic Life (Marine and Estuarine)				1,000						
Schedule 3.2 Water DW - Drinking Water			0.5	5	1	40			400	

Date	Location Code	Sample Code	Field ID										
15 Mar 2024	BH24-01	VA24A5578-001	BH24-01	<1.0	<1.0	<0.20	<1.0	<0.20	<1.0	<1.0	<1.0	<1.0	<1.0
15 Mar 2024	BH24-02	VA24A5578-002	BH24-02	<1.0	2.4	<0.20	<1.0	<0.20	<1.0	<1.0	<1.0	<1.0	<1.0

Environmental Standards

BC MoE, March 2021, BC Schedule 3.2 Water AW - Aquatic Life (Marine and Estuarine)

BC MoE, March 2021, BC Schedule 3.2 Water DW - Drinking Water



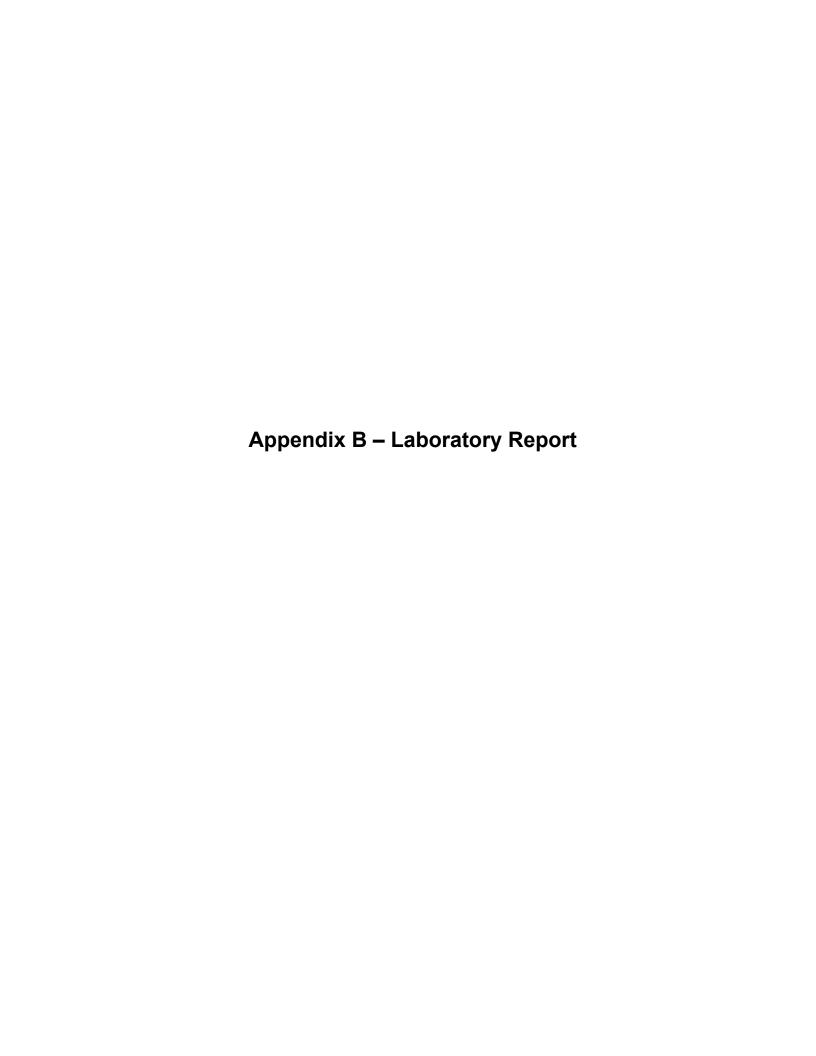
Site Photographs



Photo 1 – Rear of Site showing pump island and location of Groundwater wells.



Photo 2 – Groundwater well after cap has been taken off.



ALS Canada Ltd.

Address

Site



CERTIFICATE OF ANALYSIS

: 1 of 5

Work Order : VA24A5578 Page

Client : Wittich Environmental Services Ltd. Laboratory : ALS Environmental - Vancouver

Contact : Claire Price Account Manager : Emmanuel Mariano

: 5715 Sooke Road Address : 8081 Lougheed Highway

Sooke BC Canada V9Z 0C4 Burnaby BC Canada V5A 1W9

Telephone : ---- Telephone : +1 604 253 4188

Project : 24046 Date Samples Received : 16-Mar-2024 14:00

 Project
 : 24046
 Date Samples Received
 : 16-Mar-2024 14:00

 PO
 : -- Date Analysis Commenced
 : 19-Mar-2024

C-O-C number : ---- Issue Date : 22-Mar-2024 15:33

Sampler : ---

Quote number : Wittich Env. Standing Offer 2024

No. of samples received : 3
No. of samples analysed : 2

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories Position Laboratory Department

Brieanna Allen Production/Validation Manager Organics, Burnaby, British Columbia

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Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project: 24046



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances

LOR: Limit of Reporting (detection limit).

Unit	Description
μg/L	micrograms per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Page : 3 of 5 Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Analytical Results

Sub-Matrix: Water			Cli	ent sample ID	BH24-01	BH24-02	 	
(Matrix: Water)								
			Client samp	ling date / time	15-Mar-2024 00:00	15-Mar-2024 00:00	 	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24A5578-001	VA24A5578-002	 	
					Result	Result	 	
Volatile Organic Compounds	440.00.7	E611H/VA	1.0	ua/l	<1.0	<1.0		
Cyclohexane	110-82-7	EOTIH/VA	1.0	μg/L	<1.0	<1.0	 	
Volatile Organic Compounds [Fuels]	=	EC44 A D / A	0.50		10.50	40.0		
Benzene		E611A/VA	0.50	μg/L	<0.50	12.0	 	
Butadiene, 1,3-		E611H/VA	0.20	μg/L	<0.20	<0.20	 	
Decane, n-		E611H/VA	1.0	μg/L 	<1.0	<1.0	 	
Dibromoethane, 1,2-		E611H/VA	0.20	μg/L 	<0.20	<0.20	 	
Dichloroethane, 1,2-		E611H/VA	1.0	μg/L 	<1.0	<1.0	 	
Ethylbenzene		E611A/VA	0.50	μg/L	<0.50	2.02	 	
Hexane, n-		E611H/VA	1.0	μg/L	<1.0	<1.0	 	
Isopropylbenzene		E611H/VA	1.0	μg/L	<1.0	<1.0	 	
Methylcyclohexane		E611H/VA	1.0	μg/L	<1.0	<1.0	 	
Methyl-tert-butyl ether [MTBE]	1634-04-4		0.50	μg/L	<0.50	<0.50	 	
Methyl-tert-butyl ether [MTBE]	1634-04-4		0.50	μg/L	<0.50	<0.50	 	
Styrene		E611A/VA	0.50	μg/L	<0.50	<0.50	 	
Toluene	108-88-3	E611A/VA	0.50	μg/L	<0.50	<0.50	 	
Trimethylbenzene, 1,2,4-	95-63-6	E611H/VA	1.0	μg/L	<1.0	2.4	 	
Trimethylbenzene, 1,3,5-	108-67-8	E611H/VA	1.0	μg/L	<1.0	<1.0	 	
Xylene, m+p-	179601-23-1	E611A/VA	0.40	μg/L	<0.40	1.26	 	
Xylene, o-	95-47-6	E611A/VA	0.30	μg/L	<0.30	5.72	 	
Xylenes, total	1330-20-7	E611A/VA	0.50	μg/L	<0.50	6.98	 	
Hydrocarbons								
EPH (C10-C19)		E601A/VA	250	μg/L	<250	<250	 	
EPH (C19-C32)		E601A/VA	250	μg/L	<250	<250	 	
VHw (C6-C10)		E581.VH+F1/	100	μg/L	<100	<100	 	
HEPHw		VA EC600A/VA	250	ug/l	<250	<250		
LEPHW		EC600A/VA	250 250	μg/L	<250 <250	<250 <250	 	
				μg/L		<250 <100	 	
VPHw		EC580A/VA	100	μg/L	<100	<100	 	
Hydrocarbons Surrogates								

Page : 4 of 5 Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Analytical Results

Analytical Nesults							
Sub-Matrix: Water		Ci	lient sample ID	BH24-01	BH24-02	 	
(Matrix: Water)							
		Client samp	lling date / time	15-Mar-2024 00:00	15-Mar-2024 00:00	 	
Analyte	CAS Number Method/Lab	LOR	Unit	VA24A5578-001	VA24A5578-002	 	
				Result	Result	 	
Hydrocarbons Surrogates							
Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6 E601A/VA	1.0	%	92.7	89.5	 	
Dichlorotoluene, 3,4-	95-75-0 E581.VH+F1/	1.0	%	87.9	95.6	 	
	VA						
Volatile Organic Compounds Surrogates Bromofluorobenzene, 4-	460-00-4 E611A/VA	1.0	%	92.1	95.4	 	
Bromofluorobenzene, 4-	460-00-4 E611H/VA	1.0	%	92.1	95.4 95.4	 	
Difluorobenzene, 1,4-	540-36-3 E611A/VA	1.0	%	103	103	 	
Difluorobenzene, 1,4-	540-36-3 E611H/VA	1.0	%	103	103	 	
	340-30-3 EUTIH/VA	1.0	-/0	103	103	 	
Polycyclic Aromatic Hydrocarbons	83-32-9 E641A/VA	0.010	/1	<0.010	<0.010]
Acenaphthylone	208-96-8 E641A/VA	0.010	μg/L	<0.010	<0.010		
Acenaphthylene Acridine	260-94-6 E641A/VA	0.010	μg/L	<0.010	<0.010	 	
Anthracene	120-12-7 E641A/VA	0.010	μg/L	<0.010	<0.010	 	
			μg/L		<0.010		
Benz (a) anthracene	56-55-3 E641A/VA	0.010 0.0050	μg/L	<0.010 <0.0050	<0.010	 	
Benzo(a)pyrene	50-32-8 E641A/VA		μg/L			 	
Benzo(b+j)fluoranthene	n/a E641A/VA	0.010	μg/L "	<0.010	<0.010	 	
Benzo(b+j+k)fluoranthene	n/a E641A/VA	0.015	μg/L	<0.015	<0.015	 	
Benzo(g,h,i)perylene	191-24-2 E641A/VA	0.010	μg/L	<0.010	<0.010	 	
Benzo(k)fluoranthene	207-08-9 E641A/VA	0.010	μg/L	<0.010	<0.010	 	
Chrysene	218-01-9 E641A/VA	0.010	μg/L "	<0.010	<0.010	 	
Dibenz(a,h)anthracene	53-70-3 E641A/VA	0.0050	μg/L	<0.0050	<0.0050	 	
Fluoranthene	206-44-0 E641A/VA	0.010	μg/L	<0.010	<0.010	 	
Fluorene	86-73-7 E641A/VA	0.010	μg/L "	<0.010	<0.010	 	
Indeno(1,2,3-c,d)pyrene	193-39-5 E641A/VA	0.010	μg/L "	<0.010	<0.010	 	
Methylnaphthalene, 1-	90-12-0 E641A/VA	0.010	μg/L "	<0.010	<0.010	 	
Methylnaphthalene, 2-	91-57-6 E641A/VA	0.010	μg/L 	<0.010	<0.010	 	
Naphthalene	91-20-3 E641A/VA	0.050	μg/L	<0.050	0.083	 	
Phenanthrene	85-01-8 E641A/VA	0.020	μg/L	<0.020	<0.020	 	
Pyrene	129-00-0 E641A/VA	0.010	μg/L	<0.010	<0.010	 	
Quinoline	91-22-5 E641A/VA	0.050	μg/L	<0.050	<0.050	 	

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Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Analytical Results

Sub-Matrix: Water			CI	ient sample ID	BH24-01	BH24-02	 	
(Matrix: Water)								
			Client samp	ling date / time	15-Mar-2024 00:00	15-Mar-2024 00:00	 	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24A5578-001	VA24A5578-002	 	
					Result	Result	 	
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	E641A/VA	0.1	%	103	101	 	
Naphthalene-d8	1146-65-2	E641A/VA	0.1	%	99.9	98.7	 	
Phenanthrene-d10	1517-22-2	E641A/VA	0.1	%	98.0	97.5	 	

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



QUALITY CONTROL INTERPRETIVE REPORT

Work Order : **VA24A5578** Page : 1 of 7

Client : Wittich Environmental Services Ltd. Laboratory : ALS Environmental - Vancouver

Contact :Claire Price Account Manager :Emmanuel Mariano
Address :5715 Sooke Road Address :8081 Lougheed High

: 5715 Sooke Road Address : 8081 Lougheed Highway
Sooke BC Canada V9Z 0C4 Burnaby, British Columbia Canada V5A 1W9

 Telephone
 : --- Telephone
 : +1 604 253 4188

 Project
 : 24046
 Date Samples Received
 : 16-Mar-2024 14:00

PO :--- Issue Date : 22-Mar-2024 15:33
C-O-C number :--Sampler ----

Quote number : Wittich Env. Standing Offer 2024

No. of samples received :3
No. of samples analysed :2

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Site

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

No Reference Material (RM) Sample outliers occur.

Outliers: Analysis Holding Time Compliance (Breaches) ■ No Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples • No Quality Control Sample Frequency Outliers occur.

Page : 3 of 7 Work Order · VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and/or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Water					Εν	∕aluation: × =	Holding time exce	edance ; 🗸	= Within	Holding Time
Analyte Group : Analytical Method	Method	Sampling Date	Ext	raction / Pr	reparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH24-01	E601A	15-Mar-2024	21-Mar-2024	14	6 days	✓	21-Mar-2024	40 days	0 days	✓
				days						
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH24-02	E601A	15-Mar-2024	21-Mar-2024	14	6 days	✓	21-Mar-2024	40 days	0 days	✓
				days						
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass vial (sodium bisulfate)										
BH24-01	E581.VH+F1	15-Mar-2024	19-Mar-2024	14	4 days	✓	21-Mar-2024	14 days	6 days	✓
				days						
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass vial (sodium bisulfate)										
BH24-02	E581.VH+F1	15-Mar-2024	19-Mar-2024	14	4 days	✓	21-Mar-2024	14 days	6 days	✓
				days						
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH24-01	E641A	15-Mar-2024	21-Mar-2024	14	6 days	✓	21-Mar-2024	40 days	0 days	✓
				days						
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH24-02	E641A	15-Mar-2024	21-Mar-2024	14	6 days	✓	21-Mar-2024	40 days	0 days	✓
				days						
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH24-01	E611A	15-Mar-2024	19-Mar-2024	14	4 days	✓	21-Mar-2024	14 days	6 days	✓
				days						

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Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Matrix: Water Evaluation: ★ = Holding time exceedance; ✓ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Exti	raction / Pr	reparation			Analys	is		
Container / Client Sample ID(s)			Preparation	Holding	Holding Times		Analysis Date	Holding Times		Eval	
			Date	Rec	Actual			Rec	Actual		
Volatile Organic Compounds : BTEX by Headspace GC-MS											
Glass vial (sodium bisulfate)											
BH24-02	E611A	15-Mar-2024	19-Mar-2024	14	4 days	✓	21-Mar-2024	14 days	6 days	✓	
				days							
Volatile Organic Compounds : VOCs (Regular Full + BC Special List) by Headspace	e GC-MS										
Glass vial (sodium bisulfate)											
BH24-01	E611H	15-Mar-2024	19-Mar-2024	14	4 days	✓	21-Mar-2024	14 days	6 days	✓	
				days							
Volatile Organic Compounds : VOCs (Regular Full + BC Special List) by Headspace	e GC-MS										
Glass vial (sodium bisulfate)											
BH24-02	E611H	15-Mar-2024	19-Mar-2024	14	4 days	✓	21-Mar-2024	14 days	6 days	✓	
				days							

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Page : 5 of 7 Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Water Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.											
Quality Control Sample Type			Co	ount		Frequency (%)					
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation				
Laboratory Duplicates (DUP)											
BTEX by Headspace GC-MS	E611A	1371156	1	15	6.6	5.0	✓				
VH and F1 by Headspace GC-FID	E581.VH+F1	1371157	1	20	5.0	5.0	✓				
VOCs (Regular Full + BC Special List) by Headspace GC-MS	E611H	1371155	1	8	12.5	5.0	✓				
Laboratory Control Samples (LCS)											
BC PHCs - EPH by GC-FID	E601A	1374773	1	6	16.6	5.0	✓				
BTEX by Headspace GC-MS	E611A	1371156	1	15	6.6	5.0	✓				
PAHs by Hexane LVI GC-MS	E641A	1374772	1	7	14.2	5.0	✓				
VH and F1 by Headspace GC-FID	E581.VH+F1	1371157	1	20	5.0	5.0	✓				
VOCs (Regular Full + BC Special List) by Headspace GC-MS	E611H	1371155	1	8	12.5	5.0	✓				
Method Blanks (MB)											
BC PHCs - EPH by GC-FID	E601A	1374773	1	6	16.6	5.0	✓				
BTEX by Headspace GC-MS	E611A	1371156	1	15	6.6	5.0	✓				
PAHs by Hexane LVI GC-MS	E641A	1374772	1	7	14.2	5.0	✓				
VH and F1 by Headspace GC-FID	E581.VH+F1	1371157	1	20	5.0	5.0	✓				
VOCs (Regular Full + BC Special List) by Headspace GC-MS	E611H	1371155	1	8	12.5	5.0	✓				
Matrix Spikes (MS)											
BTEX by Headspace GC-MS	E611A	1371156	1	15	6.6	5.0	✓				
VH and F1 by Headspace GC-FID	E581.VH+F1	1371157	1	20	5.0	5.0	✓				
VOCs (Regular Full + BC Special List) by Headspace GC-MS	E611H	1371155	1	8	12.5	5.0	✓				

Page : 6 of 7 Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VH and F1 by Headspace GC-FID	E581.VH+F1 ALS Environmental - Vancouver	Water	BC MOE Lab Manual / CCME PHC in Soil - Tier 1 (mod)	Volatile Hydrocarbons (VH and F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
				Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
BC PHCs - EPH by GC-FID	E601A	Water	BC MOE Lab Manual	Sample extracts are analyzed by GC-FID for BC hydrocarbon fractions.
	ALS Environmental - Vancouver			
BTEX by Headspace GC-MS	E611A ALS Environmental - Vancouver	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
VOCs (Regular Full + BC Special List) by Headspace GC-MS	E611H ALS Environmental - Vancouver	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A ALS Environmental - Vancouver	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
VPH: VH-BTEX-Styrene	EC580A ALS Environmental - Vancouver	Water	BC MOE Lab Manual (VPH in Water and Solids) (mod)	Volatile Petroleum Hydrocarbons (VPH) is calculated as follows: VPHw = Volatile Hydrocarbons (VH6-10) minus benzene, toluene, ethylbenzene, xylenes (BTEX) and styrene.
LEPH and HEPH: EPH-PAH	EC600A ALS Environmental - Vancouver	Water	BC MOE Lab Manual (LEPH and HEPH)	Light Extractable Petroleum Hydrocarbons (LEPH) and Heavy Extractable Petroleum Hydrocarbons (HEPH) are calculated as follows: LEPH = Extractable Petroleum Hydrocarbons (EPH10-19) minus Acenaphthene, Acridine, Anthracene, Fluorene, Naphthalene and Phenanthrene; HEPH = Extractable Petroleum Hydrocarbons (EPH19-32) minus Benz(a)anthracene, Benzo(a)pyrene, Fluoranthene, and Pyrene.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental -	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
	Vancouver			

Page : 7 of 7 Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PHCs and PAHs Hexane Extraction	EP601	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
	ALS Environmental - Vancouver			

ALS Canada Ltd.



QUALITY CONTROL REPORT

Work Order :VA24A5578

Client : Wittich Environmental Services Ltd.

Contact : Claire Price
Address : 5715 Sooke Road

Sooke BC Canada V9Z 0C4

Telephone

Project : 24046
PO :---C-O-C number :----

Sampler :----

Site : --

Quote number : Wittich Env. Standing Offer 2024

No. of samples received : 3

No. of samples analysed : 2

Page : 1 of 8

Laboratory ; ALS Environmental - Vancouver

Account Manager : Emmanuel Mariano

Address : 8081 Lougheed Highway

Burnaby, British Columbia Canada V5A 1W9

Telephone :+1 604 253 4188

Date Samples Received : 16-Mar-2024 14:00

Date Analysis Commenced : 19-Mar-2024

Issue Date : 22-Mar-2024 15:33

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives

- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories Position Laboratory Department

Brieanna Allen Production/Validation Manager Vancouver Organics, Burnaby, British Columbia

Page : 2 of 8 Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key:

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Page : 3 of 8 Work Order : VA24A5578

Client : Wittich Environmental Services Ltd.

Project : 24046



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Water							Laboratory Duplicate (DUP) Report										
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier						
Volatile Organic Co	ompounds (QC Lot: 13	71155)															
FJ2400765-001	Anonymous	Butadiene, 1,3-	106-99-0	E611H	0.20	μg/L	<0.20	<0.20	0	Diff <2x LOR							
		Cyclohexane	110-82-7	E611H	1.0	μg/L	1.4	1.2	0.1	Diff <2x LOR							
		Decane, n-	124-18-5	E611H	1.0	μg/L	<1.0	<1.0	0	Diff <2x LOR							
		Dibromoethane, 1,2-	106-93-4	E611H	0.20	μg/L	<0.20	<0.20	0	Diff <2x LOR							
		Dichloroethane, 1,2-	107-06-2	E611H	1.0	μg/L	<1.0	<1.0	0	Diff <2x LOR							
		Hexane, n-	110-54-3	E611H	1.0	μg/L	<1.0	<1.0	0	Diff <2x LOR							
		Isopropylbenzene	98-82-8	E611H	1.0	μg/L	<1.0	<1.0	0	Diff <2x LOR							
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611H	0.50	μg/L	<0.50	<0.50	0	Diff <2x LOR							
		Trimethylbenzene, 1,2,4-	95-63-6	E611H	1.0	μg/L	<1.0	<1.0	0	Diff <2x LOR							
		Trimethylbenzene, 1,3,5-	108-67-8	E611H	1.0	μg/L	<1.0	<1.0	0	Diff <2x LOR							
Volatile Organic Co	ompounds (QC Lot: 13	71156)															
FJ2400765-001	Anonymous	Benzene	71-43-2	E611A	0.50	μg/L	<0.50	<0.50	0	Diff <2x LOR							
		Ethylbenzene	100-41-4	E611A	0.50	μg/L	0.59	0.57	0.02	Diff <2x LOR							
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A	0.50	μg/L	<0.50	<0.50	0	Diff <2x LOR							
		Styrene	100-42-5	E611A	0.50	μg/L	<0.50	<0.50	0	Diff <2x LOR							
		Toluene	108-88-3	E611A	0.50	μg/L	0.71	0.68	0.03	Diff <2x LOR							
		Xylene, m+p-	179601-23-1	E611A	0.40	μg/L	0.79	0.73	0.07	Diff <2x LOR							
		Xylene, o-	95-47-6	E611A	0.30	μg/L	1.34	1.25	0.08	Diff <2x LOR							
Hydrocarbons (QC	Lot: 1371157)																
FJ2400765-001	Anonymous	VHw (C6-C10)		E581.VH+F1	100	μg/L	<100	<100	0.0%	30%							
									1								

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Client : Wittich Environmental Services Ltd.

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ALS

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

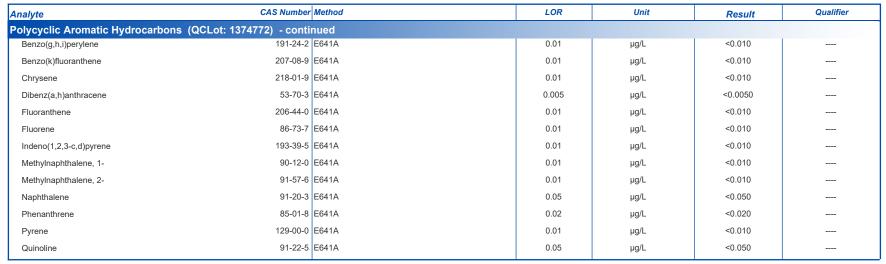
Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
olatile Organic Compounds (QCLo	t: 1371155)					
Butadiene, 1,3-	106-99-0	E611H	0.2	μg/L	<0.20	
Cyclohexane	110-82-7	E611H	1	μg/L	<1.0	
Decane, n-	124-18-5	E611H	1	μg/L	<1.0	
Dibromoethane, 1,2-	106-93-4	E611H	0.2	μg/L	<0.20	
Dichloroethane, 1,2-	107-06-2	E611H	1	μg/L	<1.0	
Hexane, n-	110-54-3	E611H	1	μg/L	<1.0	
Isopropylbenzene	98-82-8	E611H	1	μg/L	<1.0	
Methylcyclohexane	108-87-2	E611H	1	μg/L	<1.0	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611H	0.5	μg/L	<0.50	
Trimethylbenzene, 1,2,4-	95-63-6	E611H	1	μg/L	<1.0	
Trimethylbenzene, 1,3,5-	108-67-8	E611H	1	μg/L	<1.0	
olatile Organic Compounds (QCLo	t: 1371156)					
Benzene	71-43-2	E611A	0.5	μg/L	<0.50	
Ethylbenzene	100-41-4	E611A	0.5	μg/L	<0.50	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A	0.5	μg/L	<0.50	
Styrene	100-42-5	E611A	0.5	μg/L	<0.50	
Toluene	108-88-3	E611A	0.5	μg/L	<0.50	
Xylene, m+p-	179601-23-1	E611A	0.4	μg/L	<0.40	
Xylene, o-	95-47-6	E611A	0.3	μg/L	<0.30	
ydrocarbons (QCLot: 1371157)						
VHw (C6-C10)		E581.VH+F1	100	μg/L	<100	
ydrocarbons (QCLot: 1374773)						
EPH (C10-C19)		E601A	250	μg/L	<250	
EPH (C19-C32)		E601A	250	μg/L	<250	
olycyclic Aromatic Hydrocarbons(
Acenaphthene	83-32-9		0.01	μg/L	<0.010	
Acenaphthylene	208-96-8	E641A	0.01	μg/L	<0.010	
Acridine	260-94-6	E641A	0.01	μg/L	<0.010	
Anthracene	120-12-7	E641A	0.01	μg/L	<0.010	
Benz(a)anthracene	56-55-3	E641A	0.01	μg/L	<0.010	
Benzo(a)pyrene	50-32-8	E641A	0.005	μg/L	<0.0050	
Benzo(b+j)fluoranthene	n/a	E641A	0.01	μg/L	<0.010	

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Sub-Matrix: Water





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ALS

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water	Laboratory Control Sample (LCS) Report									
					Spike	Recovery (%)	Recovery	Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifie	
Volatile Organic Compounds (QCLot:	1371155)									
Butadiene, 1,3-	106-99-0	E611H	0.2	μg/L	100 μg/L	109	60.0	140		
Cyclohexane	110-82-7	E611H	1	μg/L	100 μg/L	111	70.0	130		
Decane, n-	124-18-5	E611H	1	μg/L	100 μg/L	124	70.0	130		
Dibromoethane, 1,2-	106-93-4	E611H	0.2	μg/L	100 μg/L	101	70.0	130		
Dichloroethane, 1,2-	107-06-2	E611H	1	μg/L	100 μg/L	90.7	70.0	130		
Hexane, n-	110-54-3	E611H	1	μg/L	100 μg/L	111	70.0	130		
sopropylbenzene	98-82-8	E611H	1	μg/L	100 μg/L	118	70.0	130		
Methylcyclohexane	108-87-2	E611H	1	μg/L	100 μg/L	112	70.0	130		
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611H	0.5	μg/L	100 μg/L	109	70.0	130		
Trimethylbenzene, 1,2,4-	95-63-6	E611H	1	μg/L	100 μg/L	122	70.0	130		
Trimethylbenzene, 1,3,5-	108-67-8	E611H	1	μg/L	100 μg/L	124	70.0	130		
Volatile Organic Compounds (QCLot:	1371156)									
Benzene	71-43-2	E611A	0.5	μg/L	100 μg/L	101	70.0	130		
Ethylbenzene	100-41-4	E611A	0.5	μg/L	100 μg/L	115 109	70.0	130		
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A	0.5	μg/L	100 μg/L		70.0	130		
Styrene	100-42-5	E611A	0.5	μg/L	100 μg/L	107	70.0	130		
Toluene	108-88-3	E611A	0.5	μg/L	100 μg/L	· -	70.0	130		
Xylene, m+p-	179601-23-1	E611A	0.4	μg/L	200 μg/L	119	70.0	130		
Xylene, o-	95-47-6	E611A	0.3	μg/L	100 μg/L	113	70.0	130		
Hydrocarbons (QCLot: 1371157)									•	
VHw (C6-C10)		E581.VH+F1	100	μg/L	6310 μg/L	78.4	70.0	130		
Hydrocarbons (QCLot: 1374773)										
EPH (C10-C19)		E601A	250	μg/L	6491 μg/L	93.8	70.0	130		
EPH (C19-C32)		E601A	250	μg/L	3363 µg/L	91.5	70.0	130		
Polycyclic Aromatic Hydrocarbons (Q	CLot: 1374772)									
Acenaphthene	83-32-9	E641A	0.01	μg/L	0.5 μg/L	101	60.0	130		
Acenaphthylene	208-96-8	E641A	0.01	μg/L	0.5 μg/L	103	60.0	130		
Acridine	260-94-6	E641A	0.01	μg/L	0.5 μg/L	102	60.0	130		
Anthracene	120-12-7	E641A	0.01	μg/L	0.5 μg/L	96.1	60.0	130		
Benz(a)anthracene	56-55-3	E641A	0.01	μg/L	0.5 μg/L	99.4	60.0	130		
Benzo(a)pyrene	50-32-8	E641A	0.005	μg/L	0.5 μg/L	99.3	60.0	130		

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Sub-Matrix: Water		Laboratory Co	ontrol Sample (LCS)	Report					
				Spike	Recovery (%)	Recovery	Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1374772) - continued									
Benzo(b+j)fluoranthene	n/a	E641A	0.01	μg/L	0.5 μg/L	101	60.0	130	
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	μg/L	0.5 μg/L	104	60.0	130	
Benzo(k)fluoranthene	207-08-9	E641A	0.01	μg/L	0.5 μg/L	95.1	60.0	130	
Chrysene	218-01-9	E641A	0.01	μg/L	0.5 μg/L	102	60.0	130	
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	μg/L	0.5 μg/L	103	60.0	130	
Fluoranthene	206-44-0	E641A	0.01	μg/L	0.5 μg/L	96.9	60.0	130	
Fluorene	86-73-7	E641A	0.01	μg/L	0.5 μg/L	95.8	60.0	130	
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	μg/L	0.5 μg/L	101	60.0	130	
Methylnaphthalene, 1-	90-12-0	E641A	0.01	μg/L	0.5 μg/L	94.9	60.0	130	
Methylnaphthalene, 2-	91-57-6	E641A	0.01	μg/L	0.5 μg/L	104	60.0	130	
Naphthalene	91-20-3	E641A	0.05	μg/L	0.5 μg/L	98.4	50.0	130	
Phenanthrene	85-01-8	E641A	0.02	μg/L	0.5 μg/L	95.0	60.0	130	
Pyrene	129-00-0	E641A	0.01	μg/L	0.5 μg/L	96.7	60.0	130	
Quinoline	91-22-5	E641A	0.05	μg/L	0.5 μg/L	103	60.0	130	

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Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

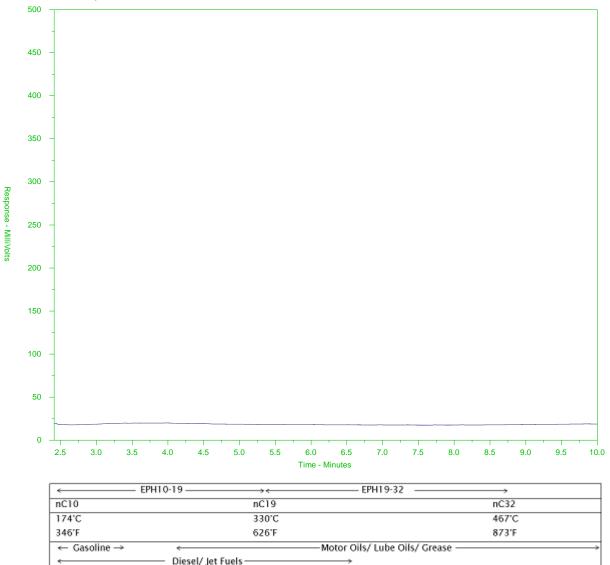
Sub-Matrix: Water				Matrix Spik	Matrix Spike (MS) Report					
					Spi	ke	Recovery (%)	Recovery	Limits (%)	
Laboratory sample IL	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic	Compounds (QCLot	:: 1371155)								
FJ2400765-001	Anonymous	Butadiene, 1,3-	106-99-0	E611H	113 µg/L	100 μg/L	113	60.0	140	
		Cyclohexane	110-82-7	E611H	117 µg/L	100 μg/L	117	60.0	140	
		Decane, n-	124-18-5	E611H	132 µg/L	100 μg/L	132	60.0	140	
		Dibromoethane, 1,2-	106-93-4	E611H	123 µg/L	100 μg/L	123	60.0	140	
		Dichloroethane, 1,2-	107-06-2	E611H	115 µg/L	100 μg/L	115	60.0	140	
		Hexane, n-	110-54-3	E611H	116 µg/L	100 μg/L	116	60.0	140	
		Isopropylbenzene	98-82-8	E611H	122 µg/L	100 μg/L	122	60.0	140	
		Methylcyclohexane	108-87-2	E611H	122 μg/L	100 μg/L	122	60.0	140	
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611H	123 μg/L	100 μg/L	123	60.0	140	
		Trimethylbenzene, 1,2,4-	95-63-6	E611H	120 µg/L	100 μg/L	120	60.0	140	
		Trimethylbenzene, 1,3,5-	108-67-8	E611H	121 µg/L	100 μg/L	121	60.0	140	
Volatile Organic	Compounds (QCLot	:: 1371156)								
FJ2400765-001	Anonymous	Benzene	71-43-2	E611A	115 µg/L	100 μg/L	115	60.0	140	
		Ethylbenzene	100-41-4	E611A	118 μg/L	100 μg/L	118	60.0	140	
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A	123 μg/L	100 μg/L	123	60.0	140	
		Styrene	100-42-5	E611A	116 μg/L	100 μg/L	116	60.0	140	
		Toluene	108-88-3	E611A	126 μg/L	100 μg/L	126	60.0	140	
		Xylene, m+p-	179601-23-1	E611A	250 μg/L	200 μg/L	125	60.0	140	
		Xylene, o-	95-47-6	E611A	120 µg/L	100 μg/L	120	60.0	140	
Hydrocarbons (QCLot: 1371157)									
KS2400896-001	Anonymous	VHw (C6-C10)		E581.VH+F1	4390 µg/L	6310 µg/L	69.6	60.0	140	

BC EPH HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: VA24A5578-001-E601A

Client Sample ID: BH24-01



The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

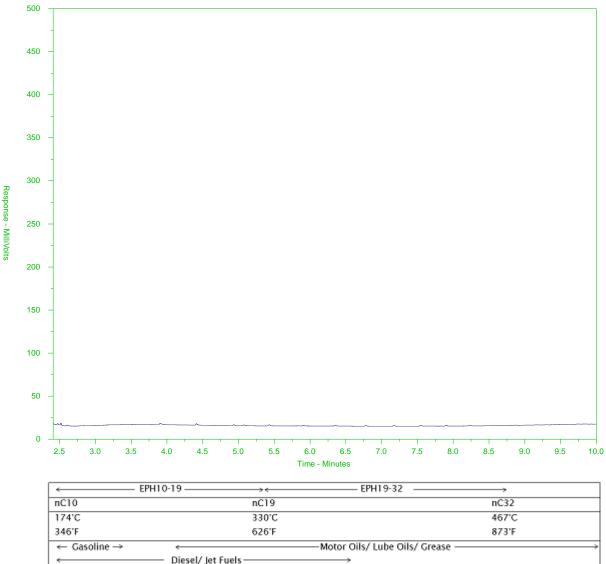
Note: This chromatogram was produced using GC conditions that are specific to the ALS Canada EPH method. Refer to the ALS Canada EPH Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

BC EPH HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: VA24A5578-002-E601A

Client Sample ID: BH24-02



The BC EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

Note: This chromatogram was produced using GC conditions that are specific to the ALS Canada EPH method. Refer to the ALS Canada EPH Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

ALS) E

Chain of Custody (COC) / Analytical Request Form

Affix ALS barcode label here

COC Number: 17 -

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.