

**MUNICIPALITY OF ARRAN-ELDERSLIE
CONCESSION ROAD 6 SLOPE REHABILITATION
AND ROAD RE-ALIGNMENT PROJECT
CONTRACT NO. 23009**

ADDENDUM NO. 1

Plan takers shall note the following:

(1) **Closing Date**

Bidders shall note that the closing date has been changed to **Thursday, May 15, 2025**.
The closing time will not change and remains at **11:00:59 a.m. (local time)**.

(2) Enclosed with this addendum is the chemical analysis results from the soil sample collected on the job site, including a site plan showing the locations where the samples were collected. The Contractor is responsible for reviewing the test results and confirming that his chosen disposal site for excess soils will accept delivery of the material. As outlined in the tender documents, prior to removing soil from site, the Contractor is required to provide a copy of the signed form stating that the owner of the receiving site will accept delivery of the excess soil from this site.

(3) With regards to the clusters of shrubs to be planted on the stream banks, these shrubs shall be at least 400mm high after being adequately installed in the bank of the stream. The size of the trees is specified in the tender specifications.

(4) Removal of the mussels from the portion of the stream where the rip rap is to be placed, is tentatively scheduled for the last week of June. If the Contractor wants to start construction before that day, he must allow the biologist and their staff access to the site during this period. If the Contractor does not start the instream work within 30 days after the mussel relocation work has been completed, the Contractor will be required to install a turbidity curtain around the area where the rip rap is to be installed before the end of July to minimize the possibility of mussels drifting back into that area.

B. M. ROSS AND ASSOCIATES LIMITED
Engineers and Planners
62 North Street
Goderich, ON N7A 2T4
Phone: (519) 524-2641
www.bmross.net

May 8, 2025

(Bidders are reminded that they must acknowledge the correct number of addenda issued on page T-1 of the tender submission document.)



CMT Engineering Inc.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
Tel: 519-699-5775
Fax: 519-699-4664
www.cmtinc.net

May 6, 2025

25-166.R01

Municipality of Arran-Alderslie
1925 Bruce Road 10
P.O. Box 70
Chesley, Ontario
N0G 1L0

Attention: Scott McLeod, *Manager of Public Works*

**Re: Chemical Analysis Report
Roadway Relocation
1078 Bruce Greenock Road North
Municipality of Arran-Elderslie, Ontario**

As requested, CMT Engineering Inc. (CMT Inc) obtained eight (8) soil samples, two (2) samples each from four (4) test pits (referenced as Test Pits 1 to 4) from the area of the proposed soil removal to be undertaken during the proposed roadway realignment on Concession Road 6 near the North Saugeen River access in Arran-Elderslie, Ontario. The samples were obtained on April 15, 2025 and submitted to the ALS Environmental Laboratory in Waterloo, Ontario for chemical analysis the same day.

Sampling was undertaken following the Ministry of Environment, Conservation and Parks “Guideline on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario” protocol; however, it should be noted that the sampling frequency was determined by the client and is not in strict conformance with the recommended sampling frequency in the above noted guideline. The soil samples were tested for the following:

- VOC, PHC F1-F4, BTEX as per O. Reg. 406/19;
- Metals and Inorganics as per O. Reg. 406/19; and
- PAH as per O. Reg. 406/19.

Table 1 below provides a summary of the soil sample locations and soil types. Drawing 1 (attached) shows the site location while the Test Pit locations are shown on Drawing 2 (attached).

Sample ID	Test Pit Location	Approximate Depth	Soil Type
Test Pit 1, Upper	Test Pit 1	0.7 m	Sandy Silt Fill, some clay
Test Pit 1, Lower	Test Pit 1	1.4 m	Clayey Silt
Test Pit 2, Upper	Test Pit 2	0.8 m	Sandy Silt Fill, some clay

Sample ID	Test Pit Location	Approximate Depth	Soil Type
Test Pit 2, Lower	Test Pit 2	1.8 m	Clayey Silt
Test Pit 3, Upper	Test Pit 3	0.6 m	Sandy Silt Fill, some clay
Test Pit 3, Lower	Test Pit 3	1.6 m	Clayey Silt
Test Pit 4, Upper	Test Pit 4	0.5 m	Sandy Silt Fill, some clay
Test Pit 4, Lower	Test Pit 4	1.5 m	Clayey Silt

The chemical analysis results were compared to the site condition standards of Ontario Regulation 406/19. Specifically, the results are compared to; *T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use*; *T2.1-Volume Independent Soil – Res/Park/Inst Property Use*; and *T2.1-Volume Independent Soil – Ind/Com/Commu Property Use*.

The following table details the parameters which exceed the site condition standards in the lower sample from Test Pit 2:

Parameter	T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use	T2.1-Volume Independent Soil-Res/Park/Inst. Property Use	T2.1-Volume Independent Soil-Ind/Com/Commu
Metals			
Boron	Exceed	--	

The following table details the parameters which exceed the site condition standards in the lower sample from Test Pit 3:

Parameter	T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use	T2.1-Volume Independent Soil-Res/Park/Inst. Property Use	T2.1-Volume Independent Soil-Ind/Com/Commu
Metals			
Boron	Exceed	--	

There were no exceedances of the Table 1 or Table 2 Site Condition Standards noted in the samples obtained from Test Pits 1 and 4 and the upper samples obtained from Test Pits 2 and 3 by the testing completed by ALS Waterloo on April 24, 2025. Based on the results of the testing, the excess soil can be placed on a Table 2 site, given landowner approval.

The results of the chemical analysis are attached for your reference.

Leachate testing may be required depending on the disposal site for the excess soils.

When transporting soils off-site, the following is recommended:

- All chemical analyses and environmental assessment reports must be fully disclosed to the receiving site owners/authorities, whom must agree to receive the material;


- The receiving site owners/authorities are to confirm the land use at the receiving site is compatible to receive the material;
- The receiving site owners/authorities are to monitor the transportation and placement of the materials to ensure that the material is placed appropriately at the pre-approved site;
- The excess materials may not be transported to a site that has previously had a Record of Site Condition (RSC) filed, unless the material meets the criteria outlined in the RSC.

It should be noted that landfill sites will generally only accept laboratory test results that have been completed within 30 days of exporting.

We trust this information meets with your present requirements. CMT Inc. recommends that an environmental consultant be contacted for further recommendations when exceedances are found. Should you have any questions or require additional testing, please do not hesitate to contact our office.

Yours truly,


Jake Feeney, P. Eng.


Nathan Chortos, P.Eng.

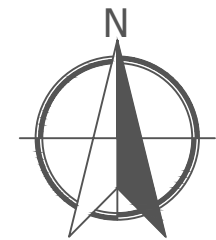
tb

Encl. Cert
Drawings 1 & 2



NOTES:

Base map provided by Google Maps.



NO.	DESCRIPTION	DATE

REVISIONS



CMT ENGINEERING INC.
 1011 Industrial Crescent, Unit 1
 St. Clements, Ontario N0B 2M0
 Tel.: 519-699-5775
 Fax: 519-699-4664
 www.cmtinc.net

PROJECT:
**NORTH SAUGEEN RIVER ACCESS
 ROAD RELOCATION**
 1078 Bruce Greenock Road North
 Paisley, Ontario

DRAWING TITLE:
SITE LOCATION MAP

PROJECT NO.:	25-166	DATE:	May 6, 2025
SCALE:	N.T.S.	DRAWING NO.:	1

NOTES:

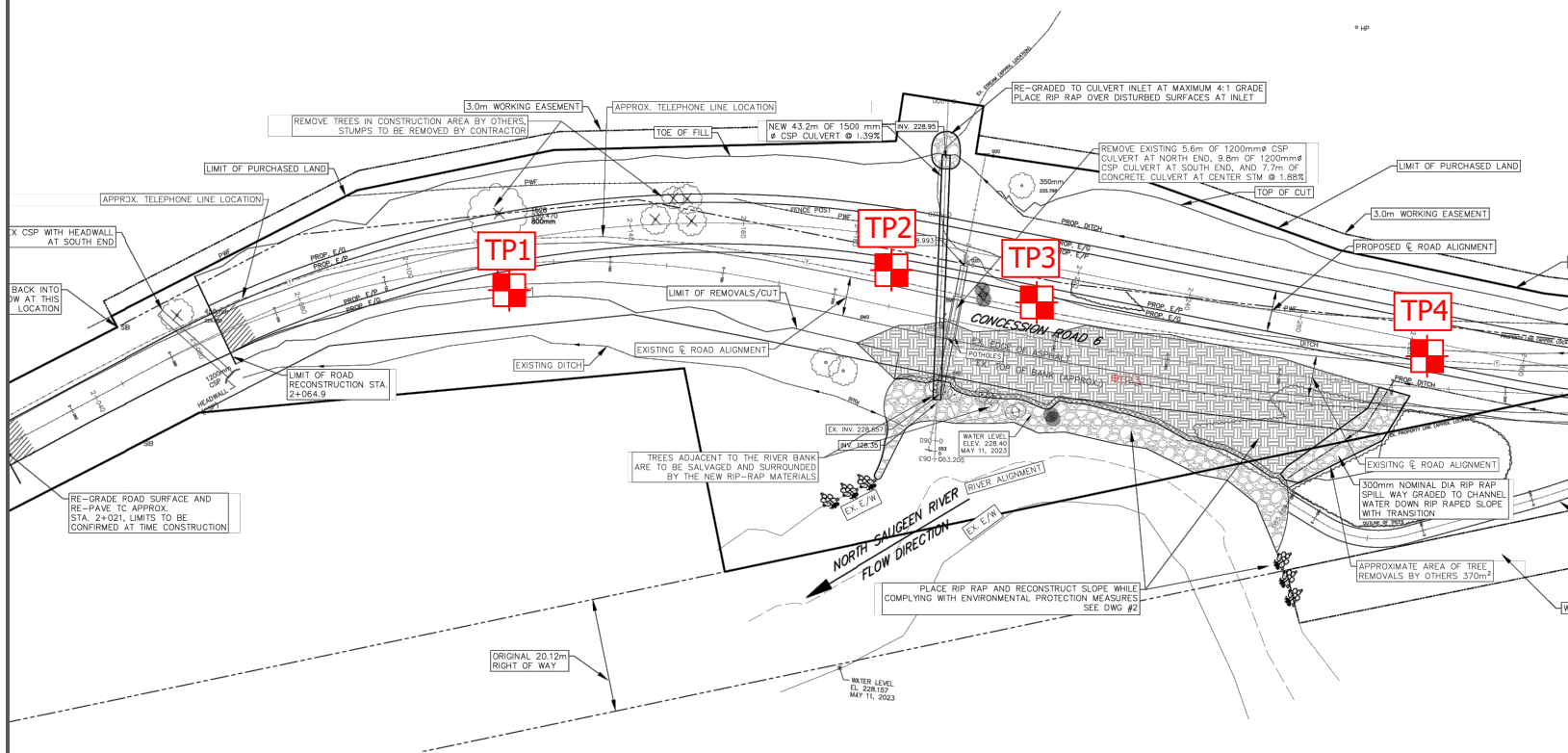
This drawing is for information purposes only. Locations and sizes of existing and proposed structures are approximate only, and should not be used for construction.

Base map provided by Client

Legend



CMT Test Pit



NO.	DESCRIPTION	DATE

REVISIONS



CMT ENGINEERING INC.
 1011 Industrial Crescent, Unit 1
 St. Clements, Ontario N0B 2M0
 Tel.: 519-699-5775
 Fax: 519-699-4664
 www.cmtinc.net

PROJECT:
 NORTH SAUGUEN RIVER ACCESS
 ROAD RELOCATION
 1078 Bruce Greenock Road North
 Paisley, Ontario

DRAWING TITLE:
 AERIAL VIEW SHOWING
 TEST PIT LOCATIONS

PROJECT NO.: 25-166	DATE: May 6, 2025
SCALE: N.T.S.	DRAWING NO.: 2

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: WT2508318		
Client	: CMT Engineering Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Jake Feeney	Account Manager	: Mathy Mahadeva
Address	: 1011 Industrial Crescent Unit 1 St. Clements Ontario Canada N0B 2M0	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 699 5775	Telephone	: +1 519 886 6910
Project	: 25-166 North Saugeen River Access	Date Samples Received	: 15-Apr-2025 13:40
PO	: ----	Date Analysis Commenced	: 16-Apr-2025
C-O-C number	: 20-949110	Issue Date	: 24-Apr-2025 14:23
Sampler	: S. Lingelbach		
Site	: ----		
Quote number	: Standing Offer 2025 Pricing		
No. of samples received	: 8		
No. of samples analysed	: 8		

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
- Guideline Comparison

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Niral Patel		Centralized Prep, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Metals, Waterloo, Ontario



Summary of Guideline Breaches by Sample

SampleID/Client ID	Matrix	Analyte	Analyte Summary	Guideline	Category	Result	Limit
Test Pit 2, Lower	Soil/Solid	Boron		ON406	T1-RPIICC	45.9 mg/kg	36 µg/g
Test Pit 3, Lower	Soil/Solid	Boron		ON406	T1-RPIICC	38.7 mg/kg	36 µg/g



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.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key: LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).
For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.



Analytical Results Evaluation

Matrix: Soil/Solid				Client sample ID	Test Pit 1, Upper	Test Pit 1, Lower	Test Pit 2, Upper	Test Pit 2, Lower	Test Pit 3, Upper	Test Pit 3, Lower	Test Pit 4, Upper
Client sampling date / time					15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00
Sub-Matrix					Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte	CAS Number	Method/Lab	Unit	WT2508318-001	WT2508318-002	WT2508318-003	WT2508318-004	WT2508318-005	WT2508318-006	WT2508318-007	
				Result	Result	Result	Result	Result	Result	Result	
Physical Tests											
Conductivity (1:2 leachate)	----	E100-L/WT	mS/cm	0.248	0.119	0.330	0.211	0.270	0.203	0.216	
Moisture	----	E144/WT	%	22.5	18.0	16.5	21.0	12.5	22.8	14.0	
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	pH units	7.37	7.52	7.26	7.65	7.48	7.45	7.47	
Cyanides											
Cyanide, weak acid dissociable	----	E336A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Fixed-Ratio Extractables											
Calcium, soluble ion content	7440-70-2	E484/WT	mg/L	14.3	12.8	16.6	6.67	11.1	7.84	9.55	
Magnesium, soluble ion content	7439-95-4	E484/WT	mg/L	1.50	23.5	3.15	1.07	2.27	1.35	2.36	
Sodium, soluble ion content	17341-25-2	E484/WT	mg/L	2.69	3.91	4.95	8.58	3.08	6.65	1.86	
Sodium adsorption ratio [SAR]	----	E484/WT	-	0.18	0.15	0.29	0.81	0.22	0.58	0.14	
Metals											
Antimony	7440-36-0	E440C/WT	mg/kg	0.13	<0.10	<0.10	0.16	0.10	0.16	0.10	
Arsenic	7440-38-2	E440C/WT	mg/kg	3.67	3.79	3.19	4.69	3.02	5.45	3.53	
Barium	7440-39-3	E440C/WT	mg/kg	54.6	55.5	35.2	134	28.9	123	37.0	
Beryllium	7440-41-7	E440C/WT	mg/kg	0.60	0.66	0.42	1.12	0.39	1.17	0.42	
Boron	7440-42-8	E440C/WT	mg/kg	21.0	17.8	14.9	45.9	16.3	38.7	15.8	
Boron, hot water soluble	7440-42-8	E487/WT	mg/kg	0.32	0.18	0.32	<0.10	0.12	<0.10	0.13	
Cadmium	7440-43-9	E440C/WT	mg/kg	0.258	0.178	0.171	0.097	0.111	0.117	0.101	
Chromium	7440-47-3	E440C/WT	mg/kg	21.6	23.6	15.8	45.8	14.4	41.6	15.7	



Matrix: Soil/Solid

				Client sample ID	Test Pit 1, Upper	Test Pit 1, Lower	Test Pit 2, Upper	Test Pit 2, Lower	Test Pit 3, Upper	Test Pit 3, Lower	Test Pit 4, Upper
				Client sampling date / time	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00
				Sub-Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte	CAS Number	Method/Lab	Unit	WT2508318-001	WT2508318-002	WT2508318-003	WT2508318-004	WT2508318-005	WT2508318-006	WT2508318-007	
				Result	Result	Result	Result	Result	Result	Result	
Metals											
Cobalt	7440-48-4	E440C/WT	mg/kg	7.00	7.42	5.53	15.0	5.50	15.4	6.23	
Copper	7440-50-8	E440C/WT	mg/kg	13.0	7.00	11.1	26.7	9.18	25.9	14.3	
Lead	7439-92-1	E440C/WT	mg/kg	10.8	5.84	8.92	9.37	9.09	11.4	9.25	
Mercury	7439-97-6	E510C/WT	mg/kg	0.0465	0.0286	0.0293	0.0189	0.0116	0.0232	0.0145	
Molybdenum	7439-98-7	E440C/WT	mg/kg	0.28	0.24	0.29	0.25	0.25	0.29	0.31	
Nickel	7440-02-0	E440C/WT	mg/kg	15.8	16.6	11.7	37.1	10.8	36.0	13.3	
Selenium	7782-49-2	E440C/WT	mg/kg	0.48	0.26	0.34	<0.20	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440C/WT	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Thallium	7440-28-0	E440C/WT	mg/kg	0.131	0.120	0.088	0.215	0.083	0.214	0.106	
Uranium	7440-61-1	E440C/WT	mg/kg	0.474	0.472	0.465	0.738	0.468	0.666	0.421	
Vanadium	7440-62-2	E440C/WT	mg/kg	26.1	28.1	20.6	49.6	19.1	47.5	21.0	
Zinc	7440-66-6	E440C/WT	mg/kg	48.6	44.4	38.5	59.6	35.2	62.8	44.6	
Speciated Metals											
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	mg/kg	<0.10	0.30	<0.10	0.16	<0.10	0.32	0.15	
Volatile Organic Compounds											
Acetone	67-64-1	E611D/WT	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Benzene	71-43-2	E611D/WT	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Bromodichloromethane	75-27-4	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Bromoform	75-25-2	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Bromomethane	74-83-9	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	



Matrix: Soil/Solid

				Client sample ID	Test Pit 1, Upper	Test Pit 1, Lower	Test Pit 2, Upper	Test Pit 2, Lower	Test Pit 3, Upper	Test Pit 3, Lower	Test Pit 4, Upper
				Client sampling date / time	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00
				Sub-Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte	CAS Number	Method/Lab	Unit	WT2508318-001	WT2508318-002	WT2508318-003	WT2508318-004	WT2508318-005	WT2508318-006	WT2508318-007	
				Result	Result	Result	Result	Result	Result	Result	
Volatile Organic Compounds											
Carbon tetrachloride	56-23-5	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	108-90-7	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	67-66-3	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	124-48-1	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	106-93-4	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	75-71-8	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,1-	75-34-3	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	107-06-2	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, 1,1-	75-35-4	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane	75-09-2	E611D/WT	mg/kg	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045	<0.045
Dichloropropane, 1,2-	78-87-5	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Ethylbenzene	100-41-4	E611D/WT	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015



Matrix: Soil/Solid

				Client sample ID	Test Pit 1, Upper	Test Pit 1, Lower	Test Pit 2, Upper	Test Pit 2, Lower	Test Pit 3, Upper	Test Pit 3, Lower	Test Pit 4, Upper
				Client sampling date / time	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00
				Sub-Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte	CAS Number	Method/Lab	Unit	WT2508318-001	WT2508318-002	WT2508318-003	WT2508318-004	WT2508318-005	WT2508318-006	WT2508318-007	
				Result	Result	Result	Result	Result	Result	Result	
Volatile Organic Compounds											
Hexane, n-	110-54-3	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	mg/kg	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Styrene	100-42-5	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	127-18-4	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	108-88-3	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	79-01-6	E611D/WT	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	75-69-4	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	75-01-4	E611D/WT	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene, m+p-	179601-23-1	E611D/WT	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611D/WT	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611D/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611D/WT	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons											
F1 (C6-C10)	----	E581.F1/WT	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0



Matrix: Soil/Solid

				Client sample ID	Test Pit 1, Upper	Test Pit 1, Lower	Test Pit 2, Upper	Test Pit 2, Lower	Test Pit 3, Upper	Test Pit 3, Lower	Test Pit 4, Upper
				Client sampling date / time	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00
				Sub-Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte	CAS Number	Method/Lab	Unit	WT2508318-001	WT2508318-002	WT2508318-003	WT2508318-004	WT2508318-005	WT2508318-006	WT2508318-007	
				Result	Result	Result	Result	Result	Result	Result	
Hydrocarbons											
F2 (C10-C16)	----	E601.SG-L/WT	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10
F2-Naphthalene	----	EC600/WT	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG-L/WT	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50
F3-PAH	n/a	EC600/WT	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG-L/WT	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50
F1-BTEX	----	EC580/WT	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	mg/kg	<80	<80	<80	<80	<80	<80	<80	<80
Chromatogram to baseline at nC50	n/a	E601.SG-L/WT	-	YES	YES	YES	YES	YES	YES	YES	YES
Hydrocarbons Surrogates											
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L/WT	%	93.9	96.3	95.4	94.6	96.1	95.6	95.6	95.6
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WT	%	87.9	84.6	93.0	82.2	87.8	85.9	87.2	87.2
Volatile Organic Compounds Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611D/WT	%	102	101	105	96.1	102	98.6	103	103
Difluorobenzene, 1,4-	540-36-3	E611D/WT	%	100	99.1	103	93.9	100	96.4	102	102
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	83-32-9	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050



Matrix: Soil/Solid

				Client sample ID	Test Pit 1, Upper	Test Pit 1, Lower	Test Pit 2, Upper	Test Pit 2, Lower	Test Pit 3, Upper	Test Pit 3, Lower	Test Pit 4, Upper
				Client sampling date / time	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00	15-Apr-2025 09:00
				Sub-Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte	CAS Number	Method/Lab	Unit	WT2508318-001	WT2508318-002	WT2508318-003	WT2508318-004	WT2508318-005	WT2508318-006	WT2508318-007	
				Result	Result	Result	Result	Result	Result	Result	
Polycyclic Aromatic Hydrocarbons											
Benzo(b+j)fluoranthene	n/a	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	191-24-2	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons Surrogates											
Acridine-d9	34749-75-2	E641A/WT	%	81.0	82.6	81.6	85.0	81.0	84.2	81.7	
Chrysene-d12	1719-03-5	E641A/WT	%	86.9	88.9	84.5	88.8	85.5	90.4	88.4	
Naphthalene-d8	1146-65-2	E641A/WT	%	99.9	102	99.2	104	99.4	103	102	
Phenanthrene-d10	1517-22-2	E641A/WT	%	92.2	94.4	91.0	95.5	90.0	95.7	93.0	

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



Matrix: Soil/Solid

				<i>Client sample ID</i>	Test Pit 4, Lower	----	----	----	----	----	----
				<i>Client sampling date / time</i>	15-Apr-2025 09:00	----	----	----	----	----	----
				<i>Sub-Matrix</i>	Soil	----	----	----	----	----	----
<i>Analyte</i>	<i>CAS Number</i>	<i>Method/Lab</i>	<i>Unit</i>		WT2508318-008	----	----	----	----	----	----
					Result	----	----	----	----	----	----

Physical Tests

Conductivity (1:2 leachate)	----	E100-L/WT	mS/cm	0.129	----	----	----	----	----	----	----
Moisture	----	E144/WT	%	12.4	----	----	----	----	----	----	----
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	pH units	7.91	----	----	----	----	----	----	----

Cyanides

Cyanide, weak acid dissociable	----	E336A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
---------------------------------------	------	----------	-------	--------	------	------	------	------	------	------	------

Fixed-Ratio Extractables

Calcium, soluble ion content	7440-70-2	E484/WT	mg/L	2.41	----	----	----	----	----	----	----
Magnesium, soluble ion content	7439-95-4	E484/WT	mg/L	1.12	----	----	----	----	----	----	----
Sodium, soluble ion content	17341-25-2	E484/WT	mg/L	1.99	----	----	----	----	----	----	----
Sodium adsorption ratio [SAR]	----	E484/WT	-	0.26	----	----	----	----	----	----	----

Metals

Antimony	7440-36-0	E440C/WT	mg/kg	<0.10	----	----	----	----	----	----	----
Arsenic	7440-38-2	E440C/WT	mg/kg	3.40	----	----	----	----	----	----	----
Barium	7440-39-3	E440C/WT	mg/kg	39.6	----	----	----	----	----	----	----
Beryllium	7440-41-7	E440C/WT	mg/kg	0.48	----	----	----	----	----	----	----
Boron	7440-42-8	E440C/WT	mg/kg	22.2	----	----	----	----	----	----	----
Boron, hot water soluble	7440-42-8	E487/WT	mg/kg	<0.10	----	----	----	----	----	----	----
Cadmium	7440-43-9	E440C/WT	mg/kg	0.044	----	----	----	----	----	----	----
Chromium	7440-47-3	E440C/WT	mg/kg	17.4	----	----	----	----	----	----	----
Cobalt	7440-48-4	E440C/WT	mg/kg	6.94	----	----	----	----	----	----	----



Matrix: Soil/Solid

				Client sample ID	Test Pit 4, Lower	----	----	----	----	----	----
				Client sampling date / time	15-Apr-2025 09:00	----	----	----	----	----	----
				Sub-Matrix	Soil	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	WT2508318-008	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----
Metals											
Copper	7440-50-8	E440C/WT	mg/kg	15.6	----	----	----	----	----	----	----
Lead	7439-92-1	E440C/WT	mg/kg	4.86	----	----	----	----	----	----	----
Mercury	7439-97-6	E510C/WT	mg/kg	0.0076	----	----	----	----	----	----	----
Molybdenum	7439-98-7	E440C/WT	mg/kg	0.26	----	----	----	----	----	----	----
Nickel	7440-02-0	E440C/WT	mg/kg	15.0	----	----	----	----	----	----	----
Selenium	7782-49-2	E440C/WT	mg/kg	<0.20	----	----	----	----	----	----	----
Silver	7440-22-4	E440C/WT	mg/kg	<0.10	----	----	----	----	----	----	----
Thallium	7440-28-0	E440C/WT	mg/kg	0.101	----	----	----	----	----	----	----
Uranium	7440-61-1	E440C/WT	mg/kg	0.507	----	----	----	----	----	----	----
Vanadium	7440-62-2	E440C/WT	mg/kg	23.1	----	----	----	----	----	----	----
Zinc	7440-66-6	E440C/WT	mg/kg	29.2	----	----	----	----	----	----	----
Speciated Metals											
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	mg/kg	<0.10	----	----	----	----	----	----	----
Volatile Organic Compounds											
Acetone	67-64-1	E611D/WT	mg/kg	<0.50	----	----	----	----	----	----	----
Benzene	71-43-2	E611D/WT	mg/kg	<0.0050	----	----	----	----	----	----	----
Bromodichloromethane	75-27-4	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Bromoform	75-25-2	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Bromomethane	74-83-9	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Carbon tetrachloride	56-23-5	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----



Matrix: Soil/Solid

				Client sample ID	Test Pit 4, Lower	----	----	----	----	----	----
				Client sampling date / time	15-Apr-2025 09:00	----	----	----	----	----	----
				Sub-Matrix	Soil	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	WT2508318-008	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----
Volatile Organic Compounds											
Chlorobenzene	108-90-7	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Chloroform	67-66-3	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichlorodifluoromethane	75-71-8	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichloromethane	75-09-2	E611D/WT	mg/kg	<0.045	----	----	----	----	----	----	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	mg/kg	<0.030	----	----	----	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	mg/kg	<0.030	----	----	----	----	----	----	----
Ethylbenzene	100-41-4	E611D/WT	mg/kg	<0.015	----	----	----	----	----	----	----
Hexane, n-	110-54-3	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----



Matrix: Soil/Solid				Client sample ID	Test Pit 4, Lower	----	----	----	----	----	----
				Client sampling date / time	15-Apr-2025 09:00	----	----	----	----	----	----
				Sub-Matrix	Soil	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	WT2508318-008	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----
Volatile Organic Compounds											
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	mg/kg	<0.50	----	----	----	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	mg/kg	<0.50	----	----	----	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	mg/kg	<0.040	----	----	----	----	----	----	----
Styrene	100-42-5	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Toluene	108-88-3	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Trichloroethylene	79-01-6	E611D/WT	mg/kg	<0.010	----	----	----	----	----	----	----
Trichlorofluoromethane	75-69-4	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Vinyl chloride	75-01-4	E611D/WT	mg/kg	<0.020	----	----	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611D/WT	mg/kg	<0.030	----	----	----	----	----	----	----
Xylene, o-	95-47-6	E611D/WT	mg/kg	<0.030	----	----	----	----	----	----	----
Xylenes, total	1330-20-7	E611D/WT	mg/kg	<0.050	----	----	----	----	----	----	----
BTEX, total	----	E611D/WT	mg/kg	<0.10	----	----	----	----	----	----	----
Hydrocarbons											
F1 (C6-C10)	----	E581.F1/WT	mg/kg	<5.0	----	----	----	----	----	----	----
F2 (C10-C16)	----	E601.SG-L/WT	mg/kg	<10	----	----	----	----	----	----	----



Matrix: Soil/Solid

				Client sample ID	Test Pit 4, Lower	----	----	----	----	----	----
				Client sampling date / time	15-Apr-2025 09:00	----	----	----	----	----	----
				Sub-Matrix	Soil	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	WT2508318-008	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----
Hydrocarbons											
F2-Naphthalene	----	EC600/WT	mg/kg	<25	----	----	----	----	----	----	----
F3 (C16-C34)	----	E601.SG-L/WT	mg/kg	<50	----	----	----	----	----	----	----
F3-PAH	n/a	EC600/WT	mg/kg	<50	----	----	----	----	----	----	----
F4 (C34-C50)	----	E601.SG-L/WT	mg/kg	<50	----	----	----	----	----	----	----
F1-BTEX	----	EC580/WT	mg/kg	<5.0	----	----	----	----	----	----	----
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	mg/kg	<80	----	----	----	----	----	----	----
Chromatogram to baseline at nC50	n/a	E601.SG-L/WT	-	YES	----	----	----	----	----	----	----
Hydrocarbons Surrogates											
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L/WT	%	96.0	----	----	----	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WT	%	89.6	----	----	----	----	----	----	----
Volatile Organic Compounds Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611D/WT	%	102	----	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	%	101	----	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	83-32-9	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Acenaphthylene	208-96-8	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Anthracene	120-12-7	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Benz(a)anthracene	56-55-3	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Benzo(a)pyrene	50-32-8	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----



Matrix: Soil/Solid

				Client sample ID	Test Pit 4, Lower	----	----	----	----	----	----
				Client sampling date / time	15-Apr-2025 09:00	----	----	----	----	----	----
				Sub-Matrix	Soil	----	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	WT2508318-008	----	----	----	----	----	----	----
				Result	----	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons											
Benzo(g,h,i)perylene	191-24-2	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Chrysene	218-01-9	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Fluoranthene	206-44-0	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Fluorene	86-73-7	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/WT	mg/kg	<0.030	----	----	----	----	----	----	----
Methylnaphthalene, 1+2-	----	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/WT	mg/kg	<0.030	----	----	----	----	----	----	----
Naphthalene	91-20-3	E641A/WT	mg/kg	<0.010	----	----	----	----	----	----	----
Phenanthrene	85-01-8	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Pyrene	129-00-0	E641A/WT	mg/kg	<0.050	----	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates											
Acridine-d9	34749-75-2	E641A/WT	%	82.5	----	----	----	----	----	----	----
Chrysene-d12	1719-03-5	E641A/WT	%	87.8	----	----	----	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/WT	%	102	----	----	----	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/WT	%	93.5	----	----	----	----	----	----	----

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



Summary of Guideline Limits

Analyte	CAS Number	Unit	ON406 T1-RPIICC	ON406 T2.1-S-ICC	ON406 T2.1-S-RPI				
Physical Tests									
Conductivity (1:2 leachate)		mS/cm	0.57 mS/cm	1.4 mS/cm	0.7 mS/cm	----	----	----	----
Moisture	----	%	----	----	----	----	----	----	----
pH (1:2 soil:CaCl2-aq)		pH units	----	----	----	----	----	----	----
Cyanides									
Cyanide, weak acid dissociable		mg/kg	0.051 µg/g	0.051 µg/g	0.051 µg/g	----	----	----	----
Fixed-Ratio Extractables									
Calcium, soluble ion content	7440-70-2	mg/L	----	----	----	----	----	----	----
Magnesium, soluble ion content	7439-95-4	mg/L	----	----	----	----	----	----	----
Sodium, soluble ion content	17341-25-2	mg/L	----	----	----	----	----	----	----
Sodium adsorption ratio [SAR]		-	2.4 -	12 -	5 -	----	----	----	----
Metals									
Antimony	7440-36-0	mg/kg	1.3 µg/g	40 µg/g	7.5 µg/g	----	----	----	----
Arsenic	7440-38-2	mg/kg	18 µg/g	18 µg/g	18 µg/g	----	----	----	----
Barium	7440-39-3	mg/kg	220 µg/g	670 µg/g	390 µg/g	----	----	----	----
Beryllium	7440-41-7	mg/kg	2.5 µg/g	8 µg/g	4 µg/g	----	----	----	----
Boron	7440-42-8	mg/kg	36 µg/g	120 µg/g	120 µg/g	----	----	----	----
Boron, hot water soluble	7440-42-8	mg/kg	----	2 µg/g	1.5 µg/g	----	----	----	----
Cadmium	7440-43-9	mg/kg	1.2 µg/g	1.9 µg/g	1.2 µg/g	----	----	----	----
Chromium	7440-47-3	mg/kg	70 µg/g	160 µg/g	160 µg/g	----	----	----	----
Cobalt	7440-48-4	mg/kg	21 µg/g	80 µg/g	22 µg/g	----	----	----	----
Copper	7440-50-8	mg/kg	92 µg/g	230 µg/g	140 µg/g	----	----	----	----
Lead	7439-92-1	mg/kg	120 µg/g	120 µg/g	120 µg/g	----	----	----	----
Mercury	7439-97-6	mg/kg	0.27 µg/g	0.27 µg/g	0.27 µg/g	----	----	----	----



Molybdenum	7439-98-7	mg/kg	2 µg/g	40 µg/g	6.9 µg/g	----	----	----	----
Nickel	7440-02-0	mg/kg	82 µg/g	270 µg/g	100 µg/g	----	----	----	----
Selenium	7782-49-2	mg/kg	1.5 µg/g	5.5 µg/g	2.4 µg/g	----	----	----	----
Silver	7440-22-4	mg/kg	0.5 µg/g	40 µg/g	20 µg/g	----	----	----	----
Thallium	7440-28-0	mg/kg	1 µg/g	3.3 µg/g	1 µg/g	----	----	----	----
Uranium	7440-61-1	mg/kg	2.5 µg/g	33 µg/g	23 µg/g	----	----	----	----
Vanadium	7440-62-2	mg/kg	86 µg/g	86 µg/g	86 µg/g	----	----	----	----
Zinc	7440-66-6	mg/kg	290 µg/g	340 µg/g	340 µg/g	----	----	----	----

Speciated Metals

Chromium, hexavalent [Cr VI]	18540-29-9	mg/kg	0.66 µg/g	8 µg/g	8 µg/g	----	----	----	----
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Volatile Organic Compounds

Acetone	67-64-1	mg/kg	0.5 µg/g	0.5 µg/g	0.5 µg/g	----	----	----	----
Benzene	71-43-2	mg/kg	0.02 µg/g	0.02 µg/g	0.02 µg/g	----	----	----	----
Bromodichloromethane	75-27-4	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Bromoform	75-25-2	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Bromomethane	74-83-9	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Carbon tetrachloride	56-23-5	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Chlorobenzene	108-90-7	mg/kg	0.05 µg/g	0.083 µg/g	0.083 µg/g	----	----	----	----
Chloroform	67-66-3	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dibromochloromethane	124-48-1	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dibromoethane, 1,2-	106-93-4	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	mg/kg	0.05 µg/g	6.8 µg/g	3.4 µg/g	----	----	----	----
Dichlorobenzene, 1,3-	541-73-1	mg/kg	0.05 µg/g	0.26 µg/g	0.26 µg/g	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichlorodifluoromethane	75-71-8	mg/kg	0.05 µg/g	1.5 µg/g	1.5 µg/g	----	----	----	----
Dichloroethane, 1,1-	75-34-3	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichloroethane, 1,2-	107-06-2	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----



Dichloroethylene, 1,1-	75-35-4	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichloromethane	75-09-2	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichloropropane, 1,2-	78-87-5	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	mg/kg	----	----	----	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	mg/kg	----	----	----	----	----	----	----
Ethylbenzene	100-41-4	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Hexane, n-	110-54-3	mg/kg	0.05 µg/g	2.5 µg/g	2.5 µg/g	----	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	mg/kg	0.5 µg/g	0.5 µg/g	0.5 µg/g	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	mg/kg	0.5 µg/g	0.5 µg/g	0.5 µg/g	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Styrene	100-42-5	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Tetrachloroethylene	127-18-4	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Toluene	108-88-3	mg/kg	0.2 µg/g	0.2 µg/g	0.2 µg/g	----	----	----	----
Trichloroethane, 1,1,1-	71-55-6	mg/kg	0.05 µg/g	0.12 µg/g	0.11 µg/g	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Trichloroethylene	79-01-6	mg/kg	0.05 µg/g	0.05 µg/g	0.05 µg/g	----	----	----	----
Trichlorofluoromethane	75-69-4	mg/kg	0.25 µg/g	0.25 µg/g	0.25 µg/g	----	----	----	----
Vinyl chloride	75-01-4	mg/kg	0.02 µg/g	0.02 µg/g	0.02 µg/g	----	----	----	----
Xylene, m+p-	179601-23-1	mg/kg	----	----	----	----	----	----	----
Xylene, o-	95-47-6	mg/kg	----	----	----	----	----	----	----
Xylenes, total	1330-20-7	mg/kg	0.05 µg/g	0.091 µg/g	0.091 µg/g	----	----	----	----
BTEX, total		mg/kg	----	----	----	----	----	----	----



Hydrocarbons								
F1 (C6-C10)		mg/kg	25 µg/g	25 µg/g	25 µg/g	----	----	----
F2 (C10-C16)	----	mg/kg	10 µg/g	26 µg/g	10 µg/g	----	----	----
F2-Naphthalene		mg/kg	----	----	----	----	----	----
F3 (C16-C34)	----	mg/kg	240 µg/g	240 µg/g	240 µg/g	----	----	----
F3-PAH	n/a	mg/kg	----	----	----	----	----	----
F4 (C34-C50)	----	mg/kg	120 µg/g	3300 µg/g	2800 µg/g	----	----	----
F1-BTEX		mg/kg	25 µg/g	25 µg/g	25 µg/g	----	----	----
Hydrocarbons, total (C6-C50)	n/a	mg/kg	----	----	----	----	----	----
Chromatogram to baseline at nC50	n/a	-	----	----	----	----	----	----
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	%	----	----	----	----	----	----
Bromofluorobenzene, 4-	460-00-4	%	----	----	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	%	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	%	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	mg/kg	0.072 µg/g	2.5 µg/g	2.5 µg/g	----	----	----
Acenaphthylene	208-96-8	mg/kg	0.093 µg/g	0.093 µg/g	0.093 µg/g	----	----	----
Anthracene	120-12-7	mg/kg	0.16 µg/g	0.16 µg/g	0.16 µg/g	----	----	----
Benz(a)anthracene	56-55-3	mg/kg	0.36 µg/g	0.92 µg/g	0.5 µg/g	----	----	----
Benzo(a)pyrene	50-32-8	mg/kg	0.3 µg/g	0.31 µg/g	0.31 µg/g	----	----	----
Benzo(b+j)fluoranthene	n/a	mg/kg	0.47 µg/g	3.2 µg/g	3.2 µg/g	----	----	----
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.68 µg/g	13 µg/g	6.6 µg/g	----	----	----
Benzo(k)fluoranthene	207-08-9	mg/kg	0.48 µg/g	3.1 µg/g	3.1 µg/g	----	----	----
Chrysene	218-01-9	mg/kg	2.8 µg/g	9.4 µg/g	7 µg/g	----	----	----
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.1 µg/g	0.7 µg/g	0.57 µg/g	----	----	----
Fluoranthene	206-44-0	mg/kg	0.56 µg/g	2.8 µg/g	0.69 µg/g	----	----	----
Fluorene	86-73-7	mg/kg	0.12 µg/g	6.8 µg/g	6.8 µg/g	----	----	----



Indeno(1,2,3-c,d)pyrene	193-39-5	mg/kg	0.23 µg/g	0.76 µg/g	0.38 µg/g	----	----	----	----
Methylnaphthalene, 1-	90-12-0	mg/kg	0.59 µg/g	0.59 µg/g	0.59 µg/g	----	----	----	----
Methylnaphthalene, 1+2-	----	mg/kg	0.59 µg/g	0.59 µg/g	0.59 µg/g	----	----	----	----
Methylnaphthalene, 2-	91-57-6	mg/kg	0.59 µg/g	0.59 µg/g	0.59 µg/g	----	----	----	----
Naphthalene	91-20-3	mg/kg	0.09 µg/g	0.2 µg/g	0.2 µg/g	----	----	----	----
Phenanthrene	85-01-8	mg/kg	0.69 µg/g	12 µg/g	6.2 µg/g	----	----	----	----
Pyrene	129-00-0	mg/kg	1 µg/g	28 µg/g	28 µg/g	----	----	----	----
Acridine-d9	34749-75-2	%	----	----	----	----	----	----	----
Chrysene-d12	1719-03-5	%	----	----	----	----	----	----	----
Naphthalene-d8	1146-65-2	%	----	----	----	----	----	----	----
Phenanthrene-d10	1517-22-2	%	----	----	----	----	----	----	----

Key:

ON406

T1-RPIICC

T2.1-S-ICC

T2.1-S-RPI

Ontario Regulation 406/19 - Excess Soils (Bulk)

406 T1 - Soil - Res/Park/Inst/Ind/Com/Commu
Property Use

406 T2.1 - Volume Independent Soil -
Ind/Com/Commu Property Use

406 T2.1 - Volume Independent Soil -
Res/Park/Inst Property Use



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : WT2508318</p> <p>Client : CMT Engineering Inc.</p> <p>Contact : Jake Feeny</p> <p>Address : 1011 Industrial Crescent Unit 1 St. Clements ON Canada N0B 2M0</p> <p>Telephone : 519 699 5775</p> <p>Project : 25-166 North Saugeen River Access</p> <p>PO : ----</p> <p>C-O-C number : 20-949110</p> <p>Sampler : S. Lingelbach</p> <p>Site : ----</p> <p>Quote number : Standing Offer 2025 Pricing</p> <p>No. of samples received : 8</p> <p>No. of samples analysed : 8</p>	<p>Page : 1 of 19</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Mathy Mahadeva</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 15-Apr-2025 13:40</p> <p>Issue Date : 24-Apr-2025 14:23</p>
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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

- 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.



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: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E336A	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	22-Apr-2025	14 days	6 days	✔
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E336A	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	22-Apr-2025	14 days	6 days	✔
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E336A	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	22-Apr-2025	14 days	6 days	✔
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E336A	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	22-Apr-2025	14 days	6 days	✔
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E336A	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	22-Apr-2025	14 days	6 days	✔
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E336A	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	22-Apr-2025	14 days	6 days	✔
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E336A	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	22-Apr-2025	14 days	6 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E336A	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	22-Apr-2025	14 days	6 days	✔
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] Test Pit 1, Lower	E581.F1	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] Test Pit 1, Upper	E581.F1	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] Test Pit 2, Lower	E581.F1	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] Test Pit 2, Upper	E581.F1	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] Test Pit 3, Lower	E581.F1	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] Test Pit 3, Upper	E581.F1	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] Test Pit 4, Lower	E581.F1	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] Test Pit 4, Upper	E581.F1	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E601.SG-L	15-Apr-2025	17-Apr-2025	14 days	2 days	✔	22-Apr-2025	40 days	5 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E601.SG-L	15-Apr-2025	17-Apr-2025	14 days	2 days	✔	22-Apr-2025	40 days	5 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E601.SG-L	15-Apr-2025	17-Apr-2025	14 days	2 days	✔	22-Apr-2025	40 days	5 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E601.SG-L	15-Apr-2025	17-Apr-2025	14 days	2 days	✔	22-Apr-2025	40 days	5 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E601.SG-L	15-Apr-2025	17-Apr-2025	14 days	2 days	✔	22-Apr-2025	40 days	5 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E601.SG-L	15-Apr-2025	17-Apr-2025	14 days	2 days	✔	22-Apr-2025	40 days	5 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E601.SG-L	15-Apr-2025	17-Apr-2025	14 days	2 days	✔	22-Apr-2025	40 days	5 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E601.SG-L	15-Apr-2025	17-Apr-2025	14 days	2 days	✔	22-Apr-2025	40 days	5 days	✔	
Metals : Boron-Hot Water Extractable by ICPOES											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E487	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Boron-Hot Water Extractable by ICPOES											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E487	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Boron-Hot Water Extractable by ICPOES											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E487	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Boron-Hot Water Extractable by ICPOES											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E487	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Boron-Hot Water Extractable by ICPOES											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E487	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Boron-Hot Water Extractable by ICPOES											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E487	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Boron-Hot Water Extractable by ICPOES											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E487	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Boron-Hot Water Extractable by ICPOES											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E487	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E510C	15-Apr-2025	18-Apr-2025	28 days	3 days	✔	21-Apr-2025	28 days	3 days	✔	
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E510C	15-Apr-2025	18-Apr-2025	28 days	3 days	✔	21-Apr-2025	28 days	3 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E510C	15-Apr-2025	18-Apr-2025	28 days	3 days	✔	21-Apr-2025	28 days	3 days	✔
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E510C	15-Apr-2025	18-Apr-2025	28 days	3 days	✔	21-Apr-2025	28 days	3 days	✔
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E510C	15-Apr-2025	18-Apr-2025	28 days	3 days	✔	21-Apr-2025	28 days	3 days	✔
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E510C	15-Apr-2025	18-Apr-2025	28 days	3 days	✔	21-Apr-2025	28 days	3 days	✔
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E510C	15-Apr-2025	18-Apr-2025	28 days	3 days	✔	21-Apr-2025	28 days	3 days	✔
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E510C	15-Apr-2025	18-Apr-2025	28 days	3 days	✔	21-Apr-2025	28 days	3 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E440C	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	19-Apr-2025	180 days	3 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E440C	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	19-Apr-2025	180 days	3 days	✔
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E440C	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	19-Apr-2025	180 days	3 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E440C	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	19-Apr-2025	180 days	3 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E440C	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	19-Apr-2025	180 days	3 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E440C	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	19-Apr-2025	180 days	3 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E440C	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	19-Apr-2025	180 days	3 days	✔	
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E440C	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	19-Apr-2025	180 days	3 days	✔	
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E484	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E484	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E484	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E484	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E484	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E484	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E484	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E484	15-Apr-2025	18-Apr-2025	180 days	3 days	✔	21-Apr-2025	180 days	3 days	✔	
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E100-L	15-Apr-2025	18-Apr-2025	30 days	3 days	✔	21-Apr-2025	30 days	3 days	✔	
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E100-L	15-Apr-2025	18-Apr-2025	30 days	3 days	✔	21-Apr-2025	30 days	3 days	✔	
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E100-L	15-Apr-2025	18-Apr-2025	30 days	3 days	✔	21-Apr-2025	30 days	3 days	✔	
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E100-L	15-Apr-2025	18-Apr-2025	30 days	3 days	✔	21-Apr-2025	30 days	3 days	✔	
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E100-L	15-Apr-2025	18-Apr-2025	30 days	3 days	✔	21-Apr-2025	30 days	3 days	✔	



Matrix: Soil/Solid

Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E100-L	15-Apr-2025	18-Apr-2025	30 days	3 days	✓	21-Apr-2025	30 days	3 days	✓	
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E100-L	15-Apr-2025	18-Apr-2025	30 days	3 days	✓	21-Apr-2025	30 days	3 days	✓	
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E100-L	15-Apr-2025	18-Apr-2025	30 days	3 days	✓	21-Apr-2025	30 days	3 days	✓	
Physical Tests : Moisture Content by Gravimetry											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E144	15-Apr-2025	----	----	----		16-Apr-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E144	15-Apr-2025	----	----	----		16-Apr-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E144	15-Apr-2025	----	----	----		16-Apr-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E144	15-Apr-2025	----	----	----		16-Apr-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E144	15-Apr-2025	----	----	----		16-Apr-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E144	15-Apr-2025	----	----	----		16-Apr-2025	----	----		



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Physical Tests : Moisture Content by Gravimetry											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E144	15-Apr-2025	----	----	----		16-Apr-2025	----	----		
Physical Tests : Moisture Content by Gravimetry											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E144	15-Apr-2025	----	----	----		16-Apr-2025	----	----		
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E108A	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	30 days	1 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E108A	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	30 days	1 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E108A	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	30 days	1 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E108A	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	30 days	1 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E108A	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	30 days	1 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E108A	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	30 days	1 days	✔	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E108A	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	30 days	1 days	✔	



Matrix: Soil/Solid

Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E108A	15-Apr-2025	16-Apr-2025	30 days	1 days	✓	23-Apr-2025	30 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E641A	15-Apr-2025	17-Apr-2025	60 days	2 days	✓	21-Apr-2025	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E641A	15-Apr-2025	17-Apr-2025	60 days	2 days	✓	21-Apr-2025	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E641A	15-Apr-2025	17-Apr-2025	60 days	2 days	✓	21-Apr-2025	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E641A	15-Apr-2025	17-Apr-2025	60 days	2 days	✓	21-Apr-2025	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E641A	15-Apr-2025	17-Apr-2025	60 days	2 days	✓	21-Apr-2025	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E641A	15-Apr-2025	17-Apr-2025	60 days	2 days	✓	21-Apr-2025	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E641A	15-Apr-2025	17-Apr-2025	60 days	2 days	✓	21-Apr-2025	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E641A	15-Apr-2025	17-Apr-2025	60 days	2 days	✓	21-Apr-2025	40 days	4 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Speciated Metals : Hexavalent Chromium (Cr VI) by IC											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Lower	E532	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	7 days	7 days	✔	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 1, Upper	E532	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	7 days	7 days	✔	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Lower	E532	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	7 days	7 days	✔	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 2, Upper	E532	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	7 days	7 days	✔	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Lower	E532	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	7 days	7 days	✔	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 3, Upper	E532	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	7 days	7 days	✔	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Lower	E532	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	7 days	7 days	✔	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC											
Glass soil jar/Teflon lined cap [ON MECP] Test Pit 4, Upper	E532	15-Apr-2025	16-Apr-2025	30 days	1 days	✔	23-Apr-2025	7 days	7 days	✔	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS											
Glass soil methanol vial [ON MECP] Test Pit 1, Lower	E611D	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔	



Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS											
Glass soil methanol vial [ON MECP] Test Pit 1, Upper	E611D	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS											
Glass soil methanol vial [ON MECP] Test Pit 2, Lower	E611D	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS											
Glass soil methanol vial [ON MECP] Test Pit 2, Upper	E611D	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS											
Glass soil methanol vial [ON MECP] Test Pit 3, Lower	E611D	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS											
Glass soil methanol vial [ON MECP] Test Pit 3, Upper	E611D	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS											
Glass soil methanol vial [ON MECP] Test Pit 4, Lower	E611D	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS											
Glass soil methanol vial [ON MECP] Test Pit 4, Upper	E611D	15-Apr-2025	16-Apr-2025	14 days	1 days	✔	16-Apr-2025	40 days	0 days	✔	

Legend & Qualifier Definitions

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



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: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	1953519	1	20	5.0	5.0	✔
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	1953515	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	1953524	1	20	5.0	5.0	✔
WAD Cyanide (0.01M NaOH Extraction)	E336A	1953511	1	20	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	1953523	1	20	5.0	5.0	✔
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	1953518	1	20	5.0	5.0	✔
Boron-Hot Water Extractable by ICPOES	E487	1953521	1	20	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	1953522	1	20	5.0	5.0	✔
Hexavalent Chromium (Cr VI) by IC	E532	1953514	1	20	5.0	5.0	✔
CCME PHC - F1 by Headspace GC-FID	E581.F1	1954172	1	20	5.0	5.0	✔
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1953513	1	20	5.0	5.0	✔
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1954171	1	20	5.0	5.0	✔
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	1953512	1	19	5.2	5.0	✔
Laboratory Control Samples (LCS)							
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	1953519	2	20	10.0	10.0	✔
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	1953515	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	1953524	1	20	5.0	5.0	✔
WAD Cyanide (0.01M NaOH Extraction)	E336A	1953511	1	20	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	1953523	2	20	10.0	10.0	✔
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	1953518	2	20	10.0	10.0	✔
Boron-Hot Water Extractable by ICPOES	E487	1953521	2	20	10.0	10.0	✔
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	1953522	2	20	10.0	10.0	✔
Hexavalent Chromium (Cr VI) by IC	E532	1953514	2	20	10.0	10.0	✔
CCME PHC - F1 by Headspace GC-FID	E581.F1	1954172	1	20	5.0	5.0	✔
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1953513	1	20	5.0	5.0	✔
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1954171	1	20	5.0	5.0	✔
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	1953512	1	19	5.2	5.0	✔
Method Blanks (MB)							
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	1953519	1	20	5.0	5.0	✔
Moisture Content by Gravimetry	E144	1953524	1	20	5.0	5.0	✔
WAD Cyanide (0.01M NaOH Extraction)	E336A	1953511	1	20	5.0	5.0	✔
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	1953523	1	20	5.0	5.0	✔
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	1953518	1	20	5.0	5.0	✔
Boron-Hot Water Extractable by ICPOES	E487	1953521	1	20	5.0	5.0	✔
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	1953522	1	20	5.0	5.0	✔



Matrix: **Soil/Solid**

Evaluation: * = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
<i>Analytical Methods</i>							
Method Blanks (MB) - Continued							
Hexavalent Chromium (Cr VI) by IC	E532	1953514	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1954172	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1953513	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1954171	1	20	5.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	1953512	1	19	5.2	5.0	✓
Matrix Spikes (MS)							
WAD Cyanide (0.01M NaOH Extraction)	E336A	1953511	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1954172	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1953513	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1954171	1	20	5.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	1953512	1	19	5.2	5.0	✓



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
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L ALS Environmental - Waterloo	Soil/Solid	CSSS Ch. 15 (mod)/APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a soil sample that has been added in a defined ratio of soil to deionized water, then shaken well and allowed to settle. Conductance is measured in the fluid that is observed in the upper layer.
pH by Meter (1:2 Soil:0.01M CaCl ₂ Extraction) - As Received	E108A ALS Environmental - Waterloo	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
WAD Cyanide (0.01M NaOH Extraction)	E336A ALS Environmental - Waterloo	Soil/Solid	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined after extraction by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 355 µm sieve, and digested with HNO ₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484 ALS Environmental - Waterloo	Soil/Solid	SW846 6010C	A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Boron-Hot Water Extractable by ICPOES	E487 ALS Environmental - Waterloo	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are sieved through a 355 µm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Hexavalent Chromium (Cr VI) by IC	E532 ALS Environmental - Waterloo	Soil/Solid	APHA 3500-CR C	Instrumental analysis is performed by ion chromatography with UV detection.
CCME PHC - F1 by Headspace GC-FID	E581.F1 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (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. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Soil/Solid	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 in Soil/solid by Hex:Ace GC-MS	E641A ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are extracted with hexane/acetone and analyzed by GC-MS. If reported, IACR (index of additive cancer risk, unitless) and B(a)P toxic potency equivalent (in soil concentration units) are calculated as per CCME PAH Soil Quality Guidelines fact sheet (2010) or ABT1.
F1-BTEX	EC580 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Sum F1 to F4 (C6-C50)	EC581 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fractions F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50). F4G-sg is not used within this calculation due to overlap with other fractions.
F2 to F3 minus PAH	EC600 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	F2-Naphthalene = CCME Fraction 2 (C10-C16) minus Naphthalene F3-PAH = CCME Fraction 3 (C16-C34) minus sPhenanthrene, Fluoranthene, Pyrene, Benz(a)anthracene, benzo(b+)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-c,d)pyrene, and Dibenz(a,h)anthracene.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Leach 1:2 Soil:Water for pH/EC	EP108 ALS Environmental - Waterloo	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.
Leach 1:2 Soil : 0.01CaCl2 - As Received for pH	EP108A ALS Environmental - Waterloo	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Cyanide Extraction for CFA (0.01M NaOH)	EP333A ALS Environmental - Waterloo	Soil/Solid	ON MECP E3015 (mod)	Extraction for various cyanide analysis is by rotary extraction of the soil with 0.01M Sodium Hydroxide.
Digestion for Metals and Mercury (355 µm Sieve)	EP440C ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are sieved through a 355 µm sieve, and digested with HNO3 and HCl. This method is intended to liberate metals that may be environmentally available.
Boron-Hot Water Extractable	EP487 ALS Environmental - Waterloo	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with weak calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011)
Preparation of Hexavalent Chromium (Cr VI) for IC	EP532 ALS Environmental - Waterloo	Soil/Solid	EPA 3060A	Field moist samples are digested with a sodium hydroxide/sodium carbonate solution as described in EPA 3060A.
VOCs Methanol Extraction for Headspace Analysis	EP581 ALS Environmental - Waterloo	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then 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.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.

QUALITY CONTROL REPORT

<p>Work Order : WT2508318</p> <p>Client : CMT Engineering Inc.</p> <p>Contact : Jake Feeney</p> <p>Address : 1011 Industrial Crescent Unit 1 St. Clements ON Canada N0B 2M0</p> <p>Telephone : 519 699 5775</p> <p>Project : 25-166 North Saugeen River Access</p> <p>PO : ----</p> <p>C-O-C number : 20-949110</p> <p>Sampler : S. Lingelbach</p> <p>Site : ----</p> <p>Quote number : Standing Offer 2025 Pricing</p> <p>No. of samples received : 8</p> <p>No. of samples analysed : 8</p>	<p>Page : 1 of 18</p> <p>Laboratory : ALS Environmental - Waterloo</p> <p>Account Manager : Mathy Mahadeva</p> <p>Address : 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8</p> <p>Telephone : +1 519 886 6910</p> <p>Date Samples Received : 15-Apr-2025 13:40</p> <p>Date Analysis Commenced : 16-Apr-2025</p> <p>Issue Date : 24-Apr-2025 14:23</p>
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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
- Reference Material (RM) 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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario
Niral Patel		Waterloo Centralized Prep, Waterloo, Ontario
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Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario

Page : 2 of 18
Work Order : WT2508318
Client : CMT Engineering Inc.
Project : 25-166 North Saugeen River Access



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.



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: Soil/Solid

					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
Physical Tests (QC Lot: 1953515)											
WT2508240-002	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	7.89	7.84	0.636%	5%	----
Physical Tests (QC Lot: 1953519)											
WT2508240-006	Anonymous	Conductivity (1:2 leachate)	----	E100-L	5.00	µS/cm	0.167 mS/cm	162	2.67%	20%	----
Physical Tests (QC Lot: 1953524)											
WT2508240-001	Anonymous	Moisture	----	E144	0.25	%	15.0	14.0	7.46%	20%	----
Cyanides (QC Lot: 1953511)											
WT2508240-001	Anonymous	Cyanide, weak acid dissociable	----	E336A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Metals (QC Lot: 1953518)											
WT2508240-006	Anonymous	Calcium, soluble ion content	7440-70-2	E484	0.50	mg/L	5.27	4.95	6.26%	30%	----
		Magnesium, soluble ion content	7439-95-4	E484	0.50	mg/L	1.64	1.54	0.10	Diff <2x LOR	----
		Sodium, soluble ion content	17341-25-2	E484	0.50	mg/L	1.34	1.22	0.12	Diff <2x LOR	----
Metals (QC Lot: 1953521)											
WT2508240-001	Anonymous	Boron, hot water soluble	7440-42-8	E487	0.10	mg/kg	0.33	0.34	0.008	Diff <2x LOR	----
Metals (QC Lot: 1953522)											
WT2508240-001	Anonymous	Mercury	7439-97-6	E510C	0.0050	mg/kg	0.0115	0.0119	0.0004	Diff <2x LOR	----
Metals (QC Lot: 1953523)											
WT2508240-001	Anonymous	Antimony	7440-36-0	E440C	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E440C	0.10	mg/kg	2.99	3.11	3.68%	30%	----
		Barium	7440-39-3	E440C	0.50	mg/kg	140	141	0.205%	40%	----
		Beryllium	7440-41-7	E440C	0.10	mg/kg	0.68	0.67	1.66%	30%	----
		Boron	7440-42-8	E440C	5.0	mg/kg	18.6	17.3	1.3	Diff <2x LOR	----
		Cadmium	7440-43-9	E440C	0.020	mg/kg	0.090	0.099	0.008	Diff <2x LOR	----
		Chromium	7440-47-3	E440C	0.50	mg/kg	31.0	30.8	0.606%	30%	----
		Cobalt	7440-48-4	E440C	0.10	mg/kg	10.2	10.3	0.775%	30%	----
		Copper	7440-50-8	E440C	0.50	mg/kg	21.4	21.5	0.436%	30%	----
		Lead	7439-92-1	E440C	0.50	mg/kg	9.62	9.80	1.85%	40%	----
		Molybdenum	7439-98-7	E440C	0.10	mg/kg	0.49	0.47	0.02	Diff <2x LOR	----
		Nickel	7440-02-0	E440C	0.50	mg/kg	22.9	22.8	0.392%	30%	----
		Selenium	7782-49-2	E440C	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440C	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----



Sub-Matrix: Soil/Solid					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
Metals (QC Lot: 1953523) - continued											
WT2508240-001	Anonymous	Thallium	7440-28-0	E440C	0.050	mg/kg	0.181	0.171	0.011	Diff <2x LOR	----
		Uranium	7440-61-1	E440C	0.050	mg/kg	0.814	0.777	4.66%	30%	----
		Vanadium	7440-62-2	E440C	0.20	mg/kg	42.2	41.9	0.805%	30%	----
		Zinc	7440-66-6	E440C	2.0	mg/kg	58.7	60.3	2.65%	30%	----
Speciated Metals (QC Lot: 1953514)											
WT2508240-002	Anonymous	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	0.15	0.15	0.003	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1954171)											
WT2508414-001	Anonymous	Acetone	67-64-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.0050	mg/kg	0.0150	0.0150	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	<0.045	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.015	mg/kg	0.048	0.047	0.0002	Diff <2x LOR	----
Hexane, n-	110-54-3	E611D	0.050	mg/kg	1.19	1.19	0.00%	40%	----		
Methyl ethyl ketone [MEK]	78-93-3	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----		
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----		



Sub-Matrix: Soil/Solid					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 Compounds (QC Lot: 1954171) - continued											
WT2508414-001	Anonymous	Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.050	mg/kg	0.150	0.151	0.0002	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.030	mg/kg	0.437	0.439	0.421%	40%	----
Xylene, o-	95-47-6	E611D	0.030	mg/kg	0.160	0.162	1.28%	40%	----		
Hydrocarbons (QC Lot: 1953513)											
WT2508240-001	Anonymous	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	<10	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1954172)											
WT2508414-001	Anonymous	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	16.0	16.6	0.6	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 1953512)											
WT2508240-001	Anonymous	Acenaphthene	83-32-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Anthracene	120-12-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Chrysene	218-01-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluorene	86-73-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----



Sub-Matrix: Soil/Solid					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
Polycyclic Aromatic Hydrocarbons (QC Lot: 1953512) - continued											
WT2508240-001	Anonymous	Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Naphthalene	91-20-3	E641A	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Pyrene	129-00-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----



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: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1953519)						
Conductivity (1:2 leachate)	---	E100-L	5	µS/cm	<5.00	---
Physical Tests (QCLot: 1953524)						
Moisture	---	E144	0.25	%	<0.25	---
Cyanides (QCLot: 1953511)						
Cyanide, weak acid dissociable	---	E336A	0.05	mg/kg	<0.050	---
Metals (QCLot: 1953518)						
Calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	<0.50	---
Magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	<0.50	---
Sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	<0.50	---
Metals (QCLot: 1953521)						
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	<0.10	---
Metals (QCLot: 1953522)						
Mercury	7439-97-6	E510C	0.005	mg/kg	<0.0050	---
Metals (QCLot: 1953523)						
Antimony	7440-36-0	E440C	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440C	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440C	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440C	0.1	mg/kg	<0.10	---
Boron	7440-42-8	E440C	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440C	0.02	mg/kg	<0.020	---
Chromium	7440-47-3	E440C	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440C	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440C	0.5	mg/kg	<0.50	---
Lead	7439-92-1	E440C	0.5	mg/kg	<0.50	---
Molybdenum	7439-98-7	E440C	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440C	0.5	mg/kg	<0.50	---
Selenium	7782-49-2	E440C	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440C	0.1	mg/kg	<0.10	---
Thallium	7440-28-0	E440C	0.05	mg/kg	<0.050	---
Uranium	7440-61-1	E440C	0.05	mg/kg	<0.050	---
Vanadium	7440-62-2	E440C	0.2	mg/kg	<0.20	---
Zinc	7440-66-6	E440C	2	mg/kg	<2.0	---



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Speciated Metals (QCLot: 1953514)						
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	---
Volatile Organic Compounds (QCLot: 1954171)						
Acetone	67-64-1	E611D	0.5	mg/kg	<0.50	---
Benzene	71-43-2	E611D	0.005	mg/kg	<0.0050	---
Bromodichloromethane	75-27-4	E611D	0.05	mg/kg	<0.050	---
Bromoform	75-25-2	E611D	0.05	mg/kg	<0.050	---
Bromomethane	74-83-9	E611D	0.05	mg/kg	<0.050	---
Carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	<0.050	---
Chlorobenzene	108-90-7	E611D	0.05	mg/kg	<0.050	---
Chloroform	67-66-3	E611D	0.05	mg/kg	<0.050	---
Dibromochloromethane	124-48-1	E611D	0.05	mg/kg	<0.050	---
Dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	<0.050	---
Dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	<0.050	---
Dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	<0.050	---
Dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	<0.050	---
Dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	<0.050	---
Dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	<0.050	---
Dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	<0.050	---
Dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	<0.050	---
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	<0.050	---
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	<0.050	---
Dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	---
Dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	<0.050	---
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	<0.030	---
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	<0.030	---
Ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	---
Hexane, n-	110-54-3	E611D	0.05	mg/kg	<0.050	---
Methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	<0.50	---
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	<0.50	---
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	<0.040	---
Styrene	100-42-5	E611D	0.05	mg/kg	<0.050	---
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	<0.050	---
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	<0.050	---
Tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	<0.050	---
Toluene	108-88-3	E611D	0.05	mg/kg	<0.050	---



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1954171) - continued						
Trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	<0.050	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	<0.050	----
Trichloroethylene	79-01-6	E611D	0.01	mg/kg	<0.010	----
Trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	<0.050	----
Vinyl chloride	75-01-4	E611D	0.02	mg/kg	<0.020	----
Xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	<0.030	----
Xylene, o-	95-47-6	E611D	0.03	mg/kg	<0.030	----
Hydrocarbons (QCLot: 1953513)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----
Hydrocarbons (QCLot: 1954172)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1953512)						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benzo(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----

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Work Order : WT2508318
Client : CMT Engineering Inc.
Project : 25-166 North Saugeen River Access





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: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1953515)									
pH (1:2 soil:CaCl2-aq)	---	E108A	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 1953519)									
Conductivity (1:2 leachate)	---	E100-L	5	µS/cm	1410 µS/cm	95.5	90.0	110	---
Physical Tests (QCLot: 1953524)									
Moisture	---	E144	0.25	%	50 %	98.8	90.0	110	---
Cyanides (QCLot: 1953511)									
Cyanide, weak acid dissociable	---	E336A	0.05	mg/kg	1.25 mg/kg	95.3	80.0	120	---
Metals (QCLot: 1953518)									
Calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	300 mg/L	105	80.0	120	---
Magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	50 mg/L	102	80.0	120	---
Sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	50 mg/L	104	80.0	120	---
Metals (QCLot: 1953521)									
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	2 mg/kg	104	70.0	130	---
Metals (QCLot: 1953522)									
Mercury	7439-97-6	E510C	0.005	mg/kg	0.1 mg/kg	98.5	80.0	120	---
Metals (QCLot: 1953523)									
Antimony	7440-36-0	E440C	0.1	mg/kg	100 mg/kg	102	80.0	120	---
Arsenic	7440-38-2	E440C	0.1	mg/kg	100 mg/kg	106	80.0	120	---
Barium	7440-39-3	E440C	0.5	mg/kg	25 mg/kg	98.7	80.0	120	---
Beryllium	7440-41-7	E440C	0.1	mg/kg	10 mg/kg	93.4	80.0	120	---
Boron	7440-42-8	E440C	5	mg/kg	100 mg/kg	94.0	80.0	120	---
Cadmium	7440-43-9	E440C	0.02	mg/kg	10 mg/kg	99.8	80.0	120	---
Chromium	7440-47-3	E440C	0.5	mg/kg	25 mg/kg	99.4	80.0	120	---
Cobalt	7440-48-4	E440C	0.1	mg/kg	25 mg/kg	98.4	80.0	120	---
Copper	7440-50-8	E440C	0.5	mg/kg	25 mg/kg	98.7	80.0	120	---
Lead	7439-92-1	E440C	0.5	mg/kg	50 mg/kg	99.8	80.0	120	---
Molybdenum	7439-98-7	E440C	0.1	mg/kg	25 mg/kg	103	80.0	120	---
Nickel	7440-02-0	E440C	0.5	mg/kg	50 mg/kg	98.4	80.0	120	---
Selenium	7782-49-2	E440C	0.2	mg/kg	100 mg/kg	103	80.0	120	---
Silver	7440-22-4	E440C	0.1	mg/kg	10 mg/kg	95.2	80.0	120	---



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 1953523) - continued									
Thallium	7440-28-0	E440C	0.05	mg/kg	100 mg/kg	96.4	80.0	120	----
Uranium	7440-61-1	E440C	0.05	mg/kg	0.5 mg/kg	99.8	80.0	120	----
Vanadium	7440-62-2	E440C	0.2	mg/kg	50 mg/kg	100	80.0	120	----
Zinc	7440-66-6	E440C	2	mg/kg	50 mg/kg	98.6	80.0	120	----
Speciated Metals (QCLot: 1953514)									
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	100	80.0	120	----
Volatile Organic Compounds (QCLot: 1954171)									
Acetone	67-64-1	E611D	0.5	mg/kg	3.48 mg/kg	104	60.0	140	----
Benzene	71-43-2	E611D	0.005	mg/kg	3.48 mg/kg	99.7	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.05	mg/kg	3.48 mg/kg	95.5	50.0	140	----
Bromoform	75-25-2	E611D	0.05	mg/kg	3.48 mg/kg	80.4	70.0	130	----
Bromomethane	74-83-9	E611D	0.05	mg/kg	3.48 mg/kg	76.4	50.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	3.48 mg/kg	96.9	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.05	mg/kg	3.48 mg/kg	98.9	70.0	130	----
Chloroform	67-66-3	E611D	0.05	mg/kg	3.48 mg/kg	98.2	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.05	mg/kg	3.48 mg/kg	86.3	60.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	3.48 mg/kg	89.2	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	3.48 mg/kg	98.5	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	3.48 mg/kg	94.3	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	3.48 mg/kg	93.8	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	3.48 mg/kg	83.8	50.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	3.48 mg/kg	101	60.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	3.48 mg/kg	90.4	60.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	3.48 mg/kg	107	60.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	3.48 mg/kg	100	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	3.48 mg/kg	103	60.0	130	----
Dichloromethane	75-09-2	E611D	0.045	mg/kg	3.48 mg/kg	89.4	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	3.48 mg/kg	97.0	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	3.48 mg/kg	88.5	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	3.48 mg/kg	92.8	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.015	mg/kg	3.48 mg/kg	98.0	70.0	130	----
Hexane, n-	110-54-3	E611D	0.05	mg/kg	3.48 mg/kg	110	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	3.48 mg/kg	96.4	60.0	140	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	3.48 mg/kg	97.9	60.0	140	----



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1954171) - continued									
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	3.48 mg/kg	95.0	70.0	130	----
Styrene	100-42-5	E611D	0.05	mg/kg	3.48 mg/kg	94.5	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	3.48 mg/kg	92.2	60.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	3.48 mg/kg	88.5	60.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	3.48 mg/kg	98.1	60.0	130	----
Toluene	108-88-3	E611D	0.05	mg/kg	3.48 mg/kg	104	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	3.48 mg/kg	102	60.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	3.48 mg/kg	85.3	60.0	130	----
Trichloroethylene	79-01-6	E611D	0.01	mg/kg	3.48 mg/kg	97.6	60.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	3.48 mg/kg	99.4	50.0	140	----
Vinyl chloride	75-01-4	E611D	0.02	mg/kg	3.48 mg/kg	99.7	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	6.95 mg/kg	97.5	70.0	130	----
Xylene, o-	95-47-6	E611D	0.03	mg/kg	3.48 mg/kg	105	70.0	130	----
Hydrocarbons (QCLot: 1953513)									
F2 (C10-C16)	---	E601.SG-L	10	mg/kg	671 mg/kg	102	70.0	130	----
F3 (C16-C34)	---	E601.SG-L	50	mg/kg	1380 mg/kg	104	70.0	130	----
F4 (C34-C50)	---	E601.SG-L	50	mg/kg	748 mg/kg	101	70.0	130	----
Hydrocarbons (QCLot: 1954172)									
F1 (C6-C10)	---	E581.F1	5	mg/kg	69.2 mg/kg	100	80.0	120	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1953512)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	91.1	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	89.9	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	82.4	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	82.6	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	86.8	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	82.0	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	87.7	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	89.2	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	88.5	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	93.8	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	90.7	60.0	130	----
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	87.9	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	90.5	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	88.2	60.0	130	----

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 Work Order : WT2508318
 Client : CMT Engineering Inc.
 Project : 25-166 North Saugeen River Access



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1953512) - continued									
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	96.7	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	93.2	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	87.0	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	88.8	60.0	130	----



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: Soil/Solid

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Cyanides (QCLot: 1953511)										
WT2508240-001	Anonymous	Cyanide, weak acid dissociable	---	E336A	1.20 mg/kg	1.21 mg/kg	99.1	70.0	130	---
Volatile Organic Compounds (QCLot: 1954171)										
WT2508414-001	Anonymous	Acetone	67-64-1	E611D	2.09 mg/kg	2.1 mg/kg	99.7	50.0	140	---
		Benzene	71-43-2	E611D	2.16 mg/kg	2.1 mg/kg	103	50.0	140	---
		Bromodichloromethane	75-27-4	E611D	2.06 mg/kg	2.1 mg/kg	98.3	50.0	140	---
		Bromoform	75-25-2	E611D	1.80 mg/kg	2.1 mg/kg	86.0	50.0	140	---
		Bromomethane	74-83-9	E611D	1.63 mg/kg	2.1 mg/kg	77.6	50.0	140	---
		Carbon tetrachloride	56-23-5	E611D	2.08 mg/kg	2.1 mg/kg	99.1	50.0	140	---
		Chlorobenzene	108-90-7	E611D	2.13 mg/kg	2.1 mg/kg	102	50.0	140	---
		Chloroform	67-66-3	E611D	2.13 mg/kg	2.1 mg/kg	102	50.0	140	---
		Dibromochloromethane	124-48-1	E611D	1.88 mg/kg	2.1 mg/kg	89.8	50.0	140	---
		Dibromoethane, 1,2-	106-93-4	E611D	1.94 mg/kg	2.1 mg/kg	92.3	50.0	140	---
		Dichlorobenzene, 1,2-	95-50-1	E611D	2.14 mg/kg	2.1 mg/kg	102	50.0	140	---
		Dichlorobenzene, 1,3-	541-73-1	E611D	2.03 mg/kg	2.1 mg/kg	97.0	50.0	140	---
		Dichlorobenzene, 1,4-	106-46-7	E611D	2.02 mg/kg	2.1 mg/kg	96.2	50.0	140	---
		Dichlorodifluoromethane	75-71-8	E611D	2.16 mg/kg	2.1 mg/kg	103	50.0	140	---
		Dichloroethane, 1,1-	75-34-3	E611D	2.18 mg/kg	2.1 mg/kg	104	50.0	140	---
		Dichloroethane, 1,2-	107-06-2	E611D	1.95 mg/kg	2.1 mg/kg	92.9	50.0	140	---
		Dichloroethylene, 1,1-	75-35-4	E611D	2.29 mg/kg	2.1 mg/kg	109	50.0	140	---
		Dichloroethylene, cis-1,2-	156-59-2	E611D	2.17 mg/kg	2.1 mg/kg	103	50.0	140	---
		Dichloroethylene, trans-1,2-	156-60-5	E611D	2.17 mg/kg	2.1 mg/kg	104	50.0	140	---
		Dichloromethane	75-09-2	E611D	1.92 mg/kg	2.1 mg/kg	91.8	50.0	140	---
		Dichloropropane, 1,2-	78-87-5	E611D	2.10 mg/kg	2.1 mg/kg	100	50.0	140	---
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	1.82 mg/kg	2.1 mg/kg	86.7	50.0	140	---
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	1.92 mg/kg	2.1 mg/kg	91.6	50.0	140	---
		Ethylbenzene	100-41-4	E611D	2.11 mg/kg	2.1 mg/kg	101	50.0	140	---
		Hexane, n-	110-54-3	E611D	2.15 mg/kg	2.1 mg/kg	103	50.0	140	---
		Methyl ethyl ketone [MEK]	78-93-3	E611D	1.87 mg/kg	2.1 mg/kg	89.3	50.0	140	---
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	2.00 mg/kg	2.1 mg/kg	95.2	50.0	140	---
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	2.05 mg/kg	2.1 mg/kg	97.9	50.0	140	---
		Styrene	100-42-5	E611D	2.04 mg/kg	2.1 mg/kg	97.3	50.0	140	---
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	1.99 mg/kg	2.1 mg/kg	95.1	50.0	140	---
		Tetrachloroethane, 1,1,1,2,2-	79-34-5	E611D	1.99 mg/kg	2.1 mg/kg	95.0	50.0	140	---
		Tetrachloroethylene	127-18-4	E611D	2.09 mg/kg	2.1 mg/kg	99.8	50.0	140	---
		Toluene	108-88-3	E611D	2.23 mg/kg	2.1 mg/kg	106	50.0	140	---
		Trichloroethane, 1,1,1-	71-55-6	E611D	2.20 mg/kg	2.1 mg/kg	105	50.0	140	---
		Trichloroethane, 1,1,2-	79-00-5	E611D	1.85 mg/kg	2.1 mg/kg	88.1	50.0	140	---
		Trichloroethylene	79-01-6	E611D	2.09 mg/kg	2.1 mg/kg	99.8	50.0	140	---
		Trichlorofluoromethane	75-69-4	E611D	2.13 mg/kg	2.1 mg/kg	102	50.0	140	---



Sub-Matrix: Soil/Solid

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1954171) - continued										
WT2508414-001	Anonymous	Vinyl chloride	75-01-4	E611D	2.15 mg/kg	2.1 mg/kg	102	50.0	140	----
		Xylene, m+p-	179601-23-1	E611D	4.10 mg/kg	4.19 mg/kg	97.7	50.0	140	----
		Xylene, o-	95-47-6	E611D	2.23 mg/kg	2.1 mg/kg	106	50.0	140	----
Hydrocarbons (QCLot: 1953513)										
WT2508240-001	Anonymous	F2 (C10-C16)	----	E601.SG-L	574 mg/kg	574 mg/kg	100	60.0	140	----
		F3 (C16-C34)	----	E601.SG-L	1190 mg/kg	1180 mg/kg	101	60.0	140	----
		F4 (C34-C50)	----	E601.SG-L	659 mg/kg	640 mg/kg	103	60.0	140	----
Hydrocarbons (QCLot: 1954172)										
WT2508414-001	Anonymous	F1 (C6-C10)	----	E581.F1	35.4 mg/kg	41.9 mg/kg	84.4	60.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1953512)										
WT2508240-001	Anonymous	Acenaphthene	83-32-9	E641A	0.397 mg/kg	0.431 mg/kg	92.0	50.0	140	----
		Acenaphthylene	208-96-8	E641A	0.393 mg/kg	0.431 mg/kg	91.2	50.0	140	----
		Anthracene	120-12-7	E641A	0.369 mg/kg	0.431 mg/kg	85.6	50.0	140	----
		Benz(a)anthracene	56-55-3	E641A	0.368 mg/kg	0.431 mg/kg	85.2	50.0	140	----
		Benzo(a)pyrene	50-32-8	E641A	0.384 mg/kg	0.431 mg/kg	89.0	50.0	140	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.362 mg/kg	0.431 mg/kg	83.9	50.0	140	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.370 mg/kg	0.431 mg/kg	85.8	50.0	140	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.388 mg/kg	0.431 mg/kg	89.8	50.0	140	----
		Chrysene	218-01-9	E641A	0.379 mg/kg	0.431 mg/kg	87.9	50.0	140	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.398 mg/kg	0.431 mg/kg	92.3	50.0	140	----
		Fluoranthene	206-44-0	E641A	0.398 mg/kg	0.431 mg/kg	92.2	50.0	140	----
		Fluorene	86-73-7	E641A	0.389 mg/kg	0.431 mg/kg	90.2	50.0	140	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.390 mg/kg	0.431 mg/kg	90.3	50.0	140	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.383 mg/kg	0.431 mg/kg	88.8	50.0	140	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.412 mg/kg	0.431 mg/kg	95.6	50.0	140	----
		Naphthalene	91-20-3	E641A	0.404 mg/kg	0.431 mg/kg	93.6	50.0	140	----
		Phenanthrene	85-01-8	E641A	0.390 mg/kg	0.431 mg/kg	90.5	50.0	140	----
		Pyrene	129-00-0	E641A	0.389 mg/kg	0.431 mg/kg	90.2	50.0	140	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Physical Tests (QCLot: 1953519)									
QC-1953519-003	RM	Conductivity (1:2 leachate)	----	E100-L	3260 µS/cm	106	70.0	130	----
Metals (QCLot: 1953518)									
QC-1953518-003	RM	Calcium, soluble ion content	7440-70-2	E484	184 mg/L	100	70.0	130	----
QC-1953518-003	RM	Magnesium, soluble ion content	7439-95-4	E484	66.2 mg/L	104	70.0	130	----
QC-1953518-003	RM	Sodium, soluble ion content	17341-25-2	E484	111 mg/L	113	70.0	130	----
Metals (QCLot: 1953521)									
QC-1953521-003	RM	Boron, hot water soluble	7440-42-8	E487	1.69 mg/kg	108	60.0	140	----
Metals (QCLot: 1953522)									
QC-1953522-003	RM	Mercury	7439-97-6	E510C	0.068 mg/kg	96.3	70.0	130	----
Metals (QCLot: 1953523)									
QC-1953523-003	RM	Antimony	7440-36-0	E440C	24.8 mg/kg	101	70.0	130	----
QC-1953523-003	RM	Arsenic	7440-38-2	E440C	21.2 mg/kg	97.9	70.0	130	----
QC-1953523-003	RM	Barium	7440-39-3	E440C	788 mg/kg	96.8	70.0	130	----
QC-1953523-003	RM	Beryllium	7440-41-7	E440C	1.82 mg/kg	106	70.0	130	----
QC-1953523-003	RM	Cadmium	7440-43-9	E440C	2.15 mg/kg	102	70.0	130	----
QC-1953523-003	RM	Chromium	7440-47-3	E440C	56.9 mg/kg	100	70.0	130	----
QC-1953523-003	RM	Cobalt	7440-48-4	E440C	32 mg/kg	100	70.0	130	----
QC-1953523-003	RM	Copper	7440-50-8	E440C	969 mg/kg	100	70.0	130	----
QC-1953523-003	RM	Lead	7439-92-1	E440C	919 mg/kg	102	70.0	130	----
QC-1953523-003	RM	Molybdenum	7439-98-7	E440C	25.1 mg/kg	103	70.0	130	----
QC-1953523-003	RM	Nickel	7440-02-0	E440C	1000 mg/kg	103	70.0	130	----
QC-1953523-003	RM	Selenium	7782-49-2	E440C	1.04 mg/kg	111	60.0	140	----
QC-1953523-003	RM	Silver	7440-22-4	E440C	8.98 mg/kg	102	70.0	130	----
QC-1953523-003	RM	Thallium	7440-28-0	E440C	0.907 mg/kg	101	70.0	130	----
QC-1953523-003	RM	Uranium	7440-61-1	E440C	3.97 mg/kg	99.1	70.0	130	----
QC-1953523-003	RM	Vanadium	7440-62-2	E440C	66.2 mg/kg	99.6	70.0	130	----
QC-1953523-003	RM	Zinc	7440-66-6	E440C	828 mg/kg	101	70.0	130	----
Speciated Metals (QCLot: 1953514)									
QC-1953514-003	RM	Chromium, hexavalent [Cr VI]	18540-29-9	E532	134 mg/kg	81.3	70.0	130	----

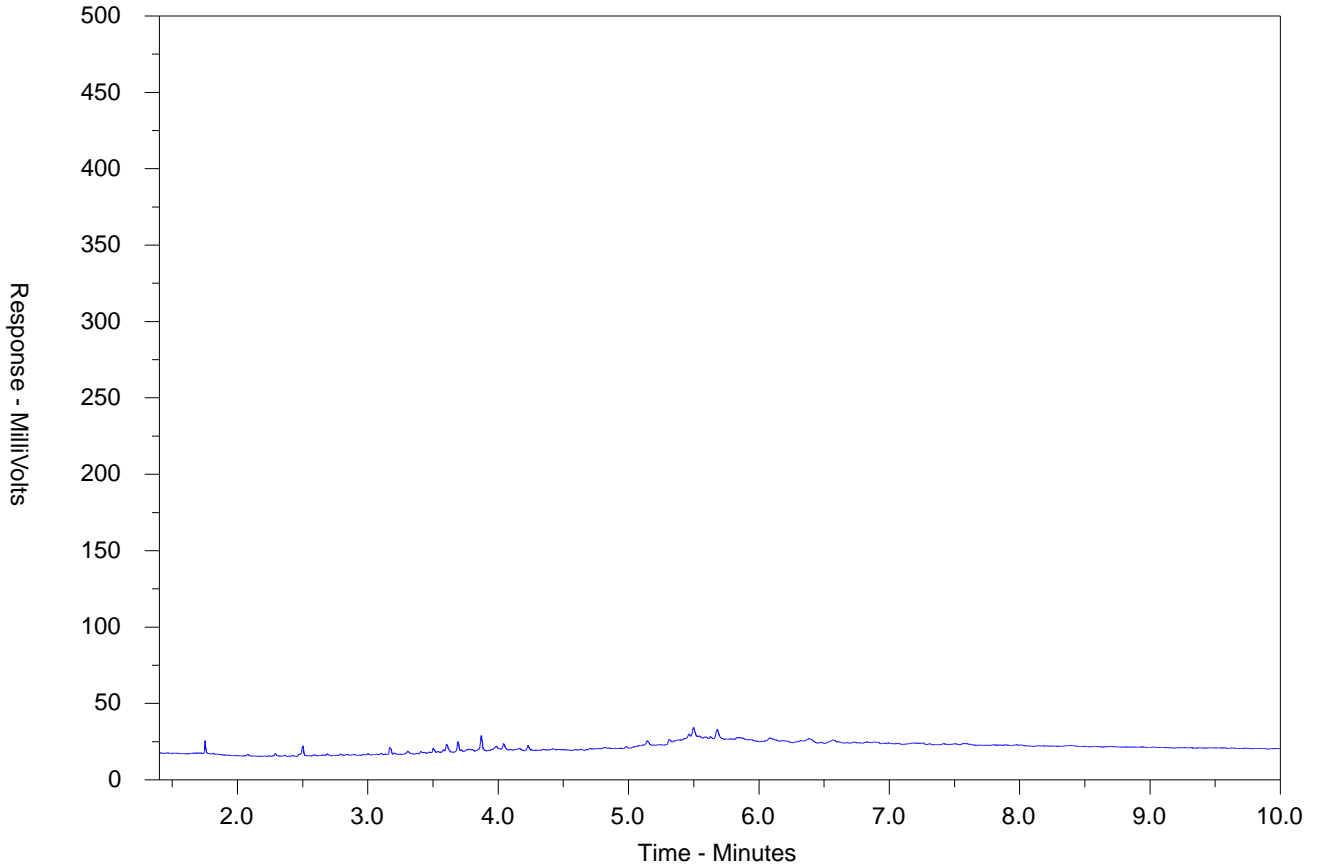
Page : 18 of 18
Work Order : WT2508318
Client : CMT Engineering Inc.
Project : 25-166 North Saugeen River Access



CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WT2508318-001-E601.SG-L
 Client Sample ID: Test Pit 1, Upper



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 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 four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

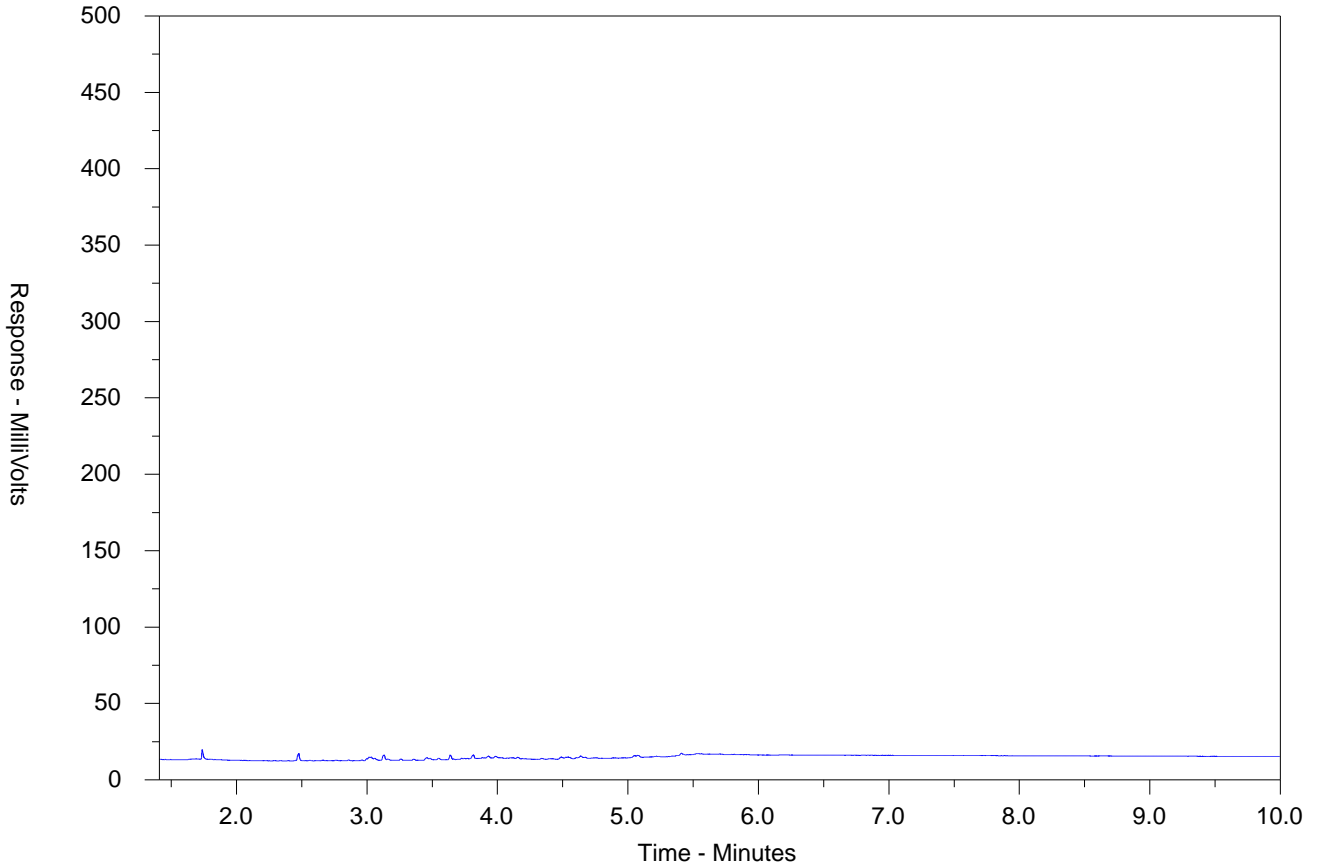
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WT2508318-002-E601.SG-L
 Client Sample ID: Test Pit 1, Lower



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	575°C		
346°F	549°F	898°F	1067°F		
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 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 four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

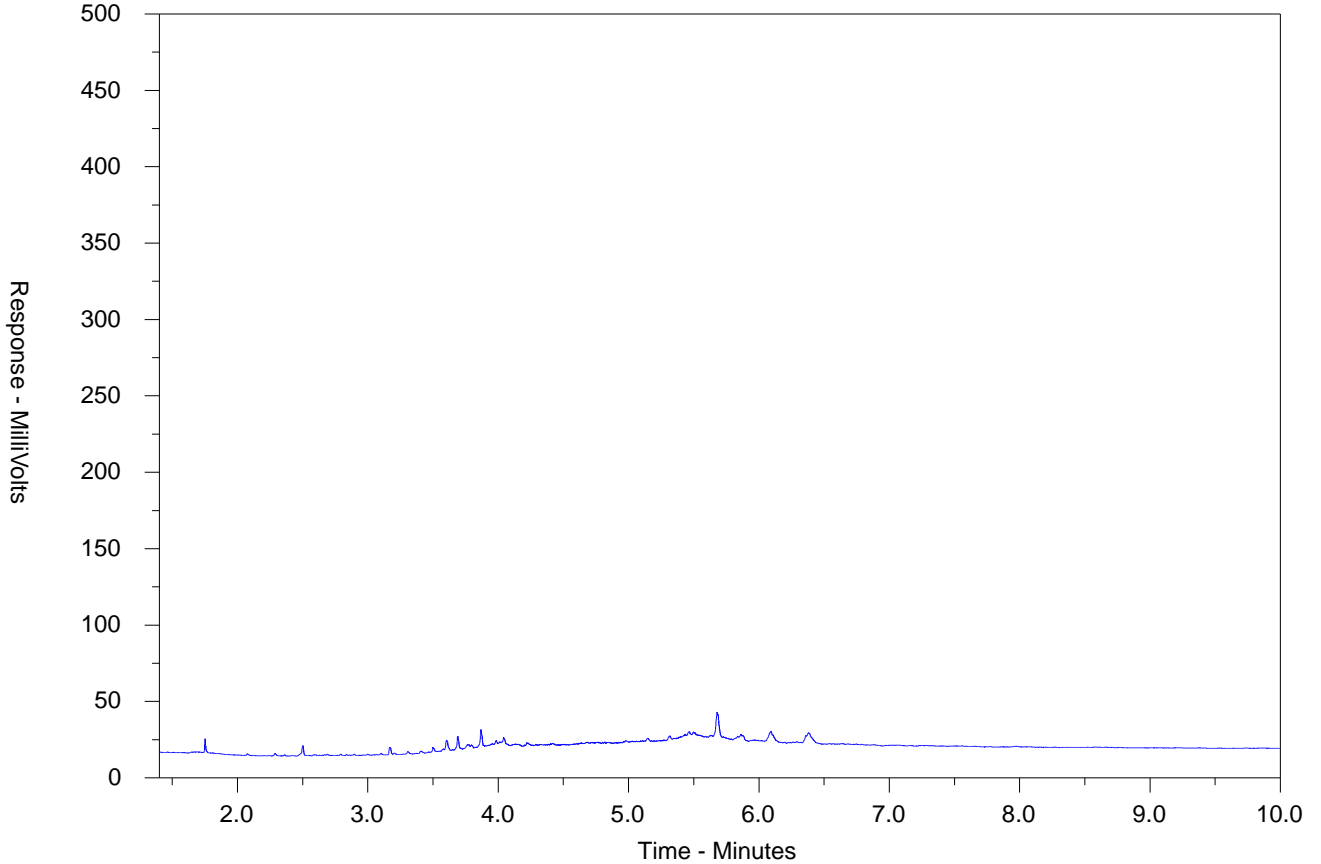
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WT2508318-003-E601.SG-L
 Client Sample ID: Test Pit 2, Upper



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 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 four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

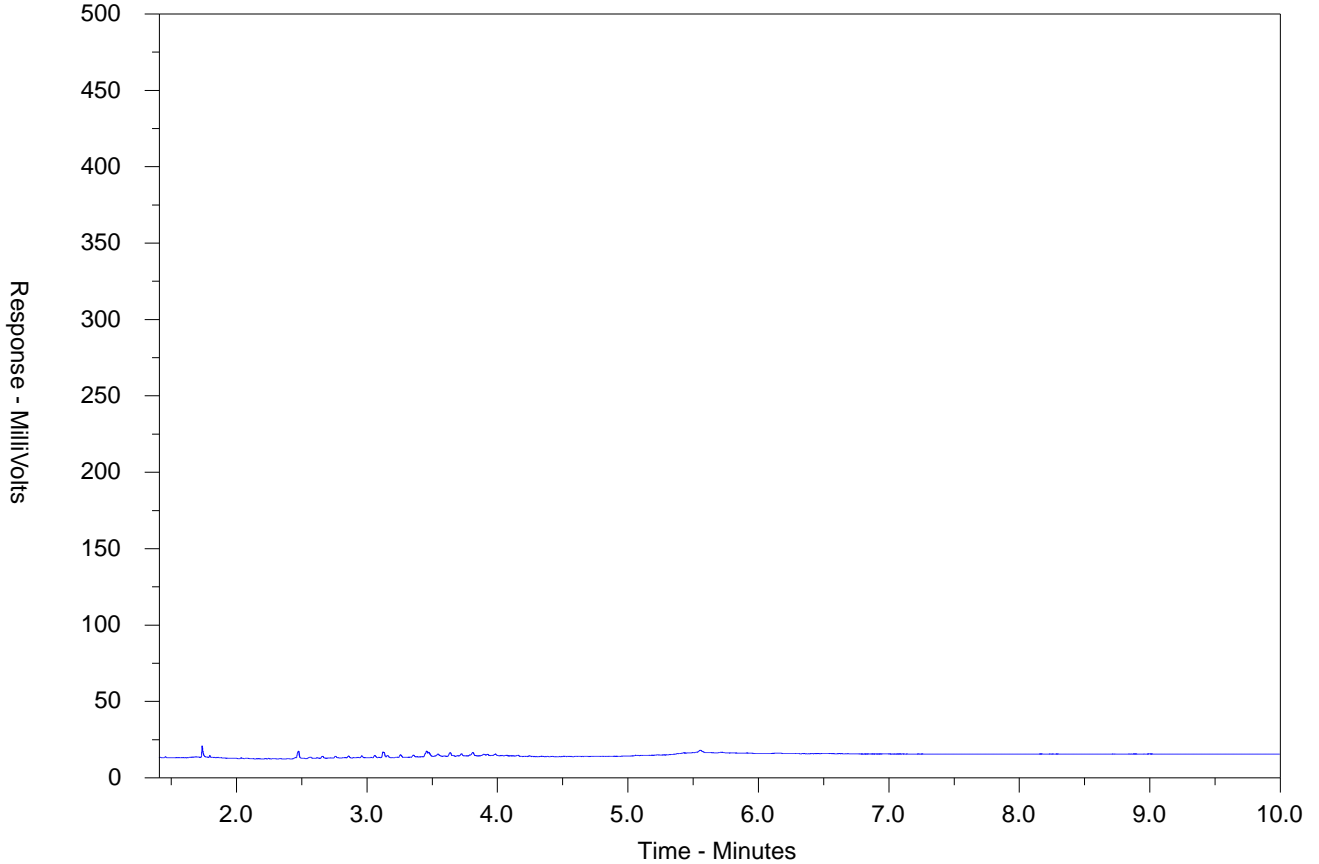
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WT2508318-004-E601.SG-L
 Client Sample ID: Test Pit 2, Lower



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	575°C		
346°F	549°F	898°F	1067°F		
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 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 four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

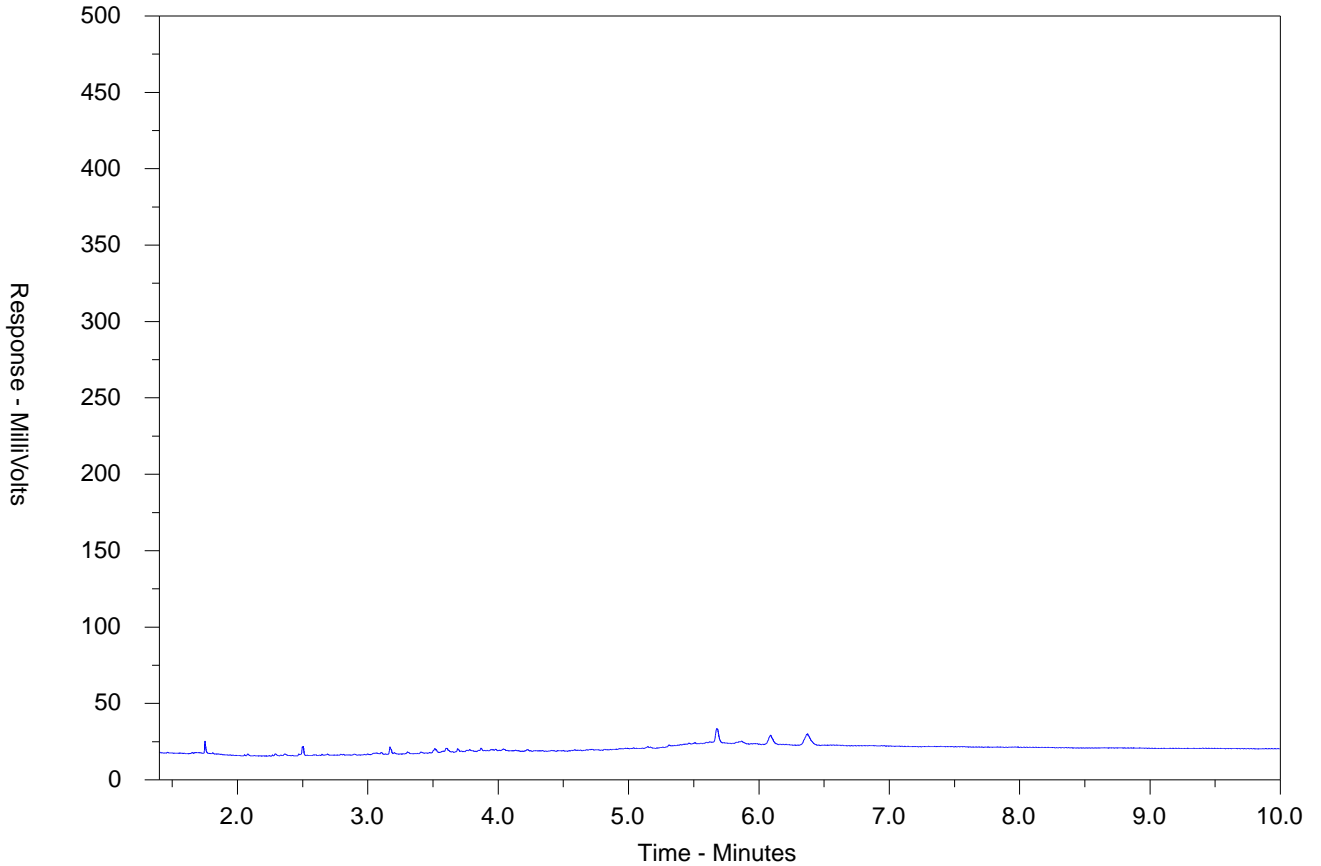
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WT2508318-005-E601.SG-L
 Client Sample ID: Test Pit 3, Upper



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	575°C		
346°F	549°F	898°F	1067°F		
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 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 four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

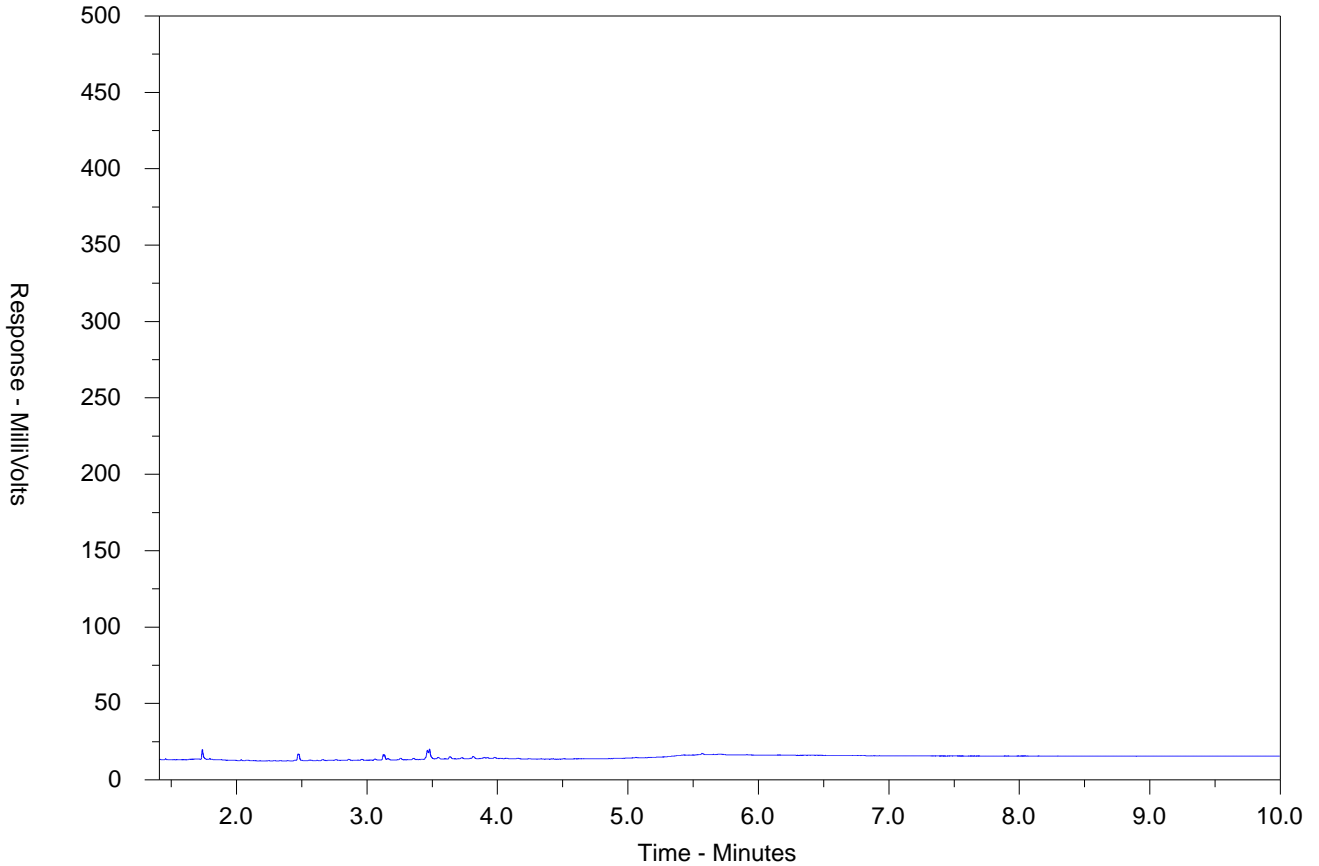
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WT2508318-006-E601.SG-L
 Client Sample ID: Test Pit 3, Lower



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 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 four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

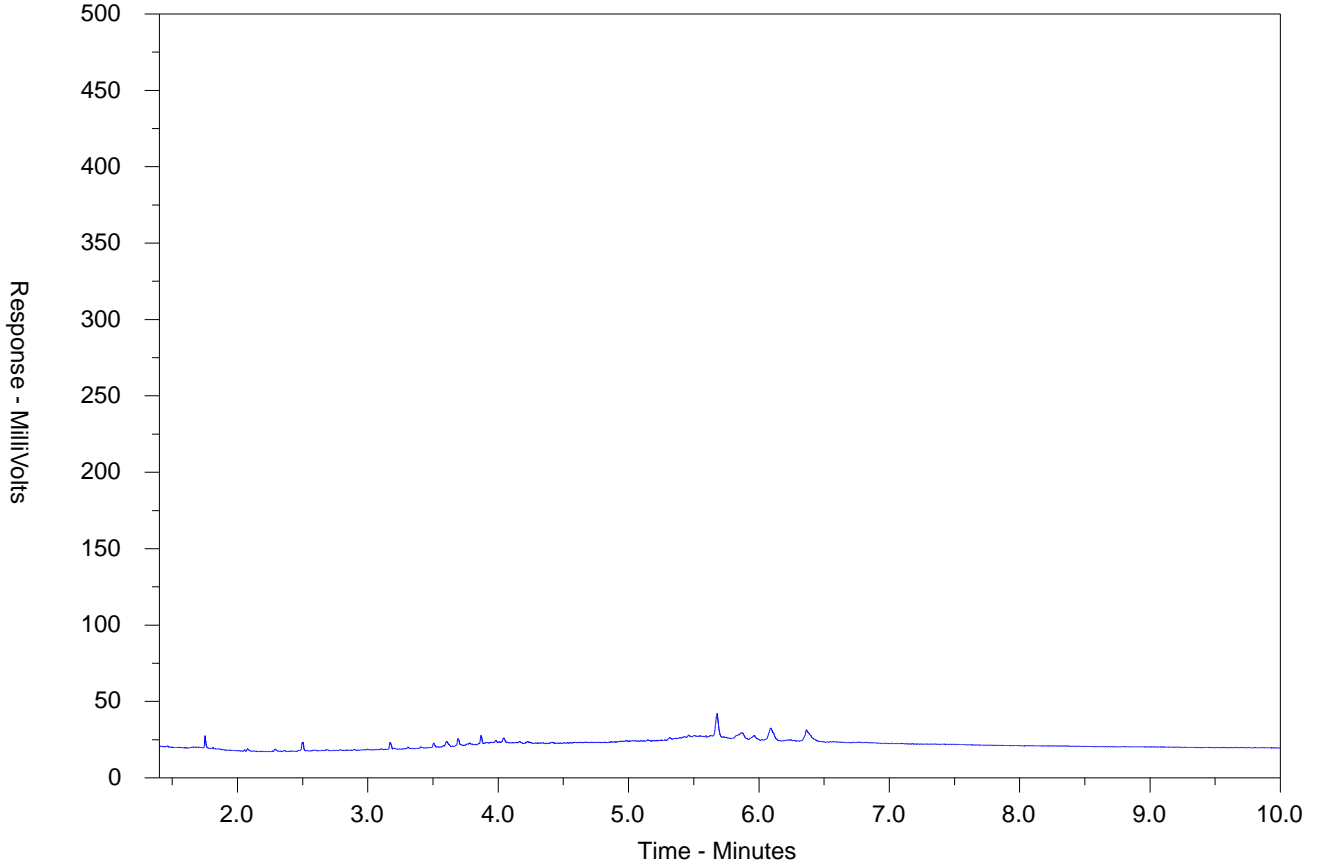
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WT2508318-007-E601.SG-L
 Client Sample ID: Test Pit 4, Upper



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 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 four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

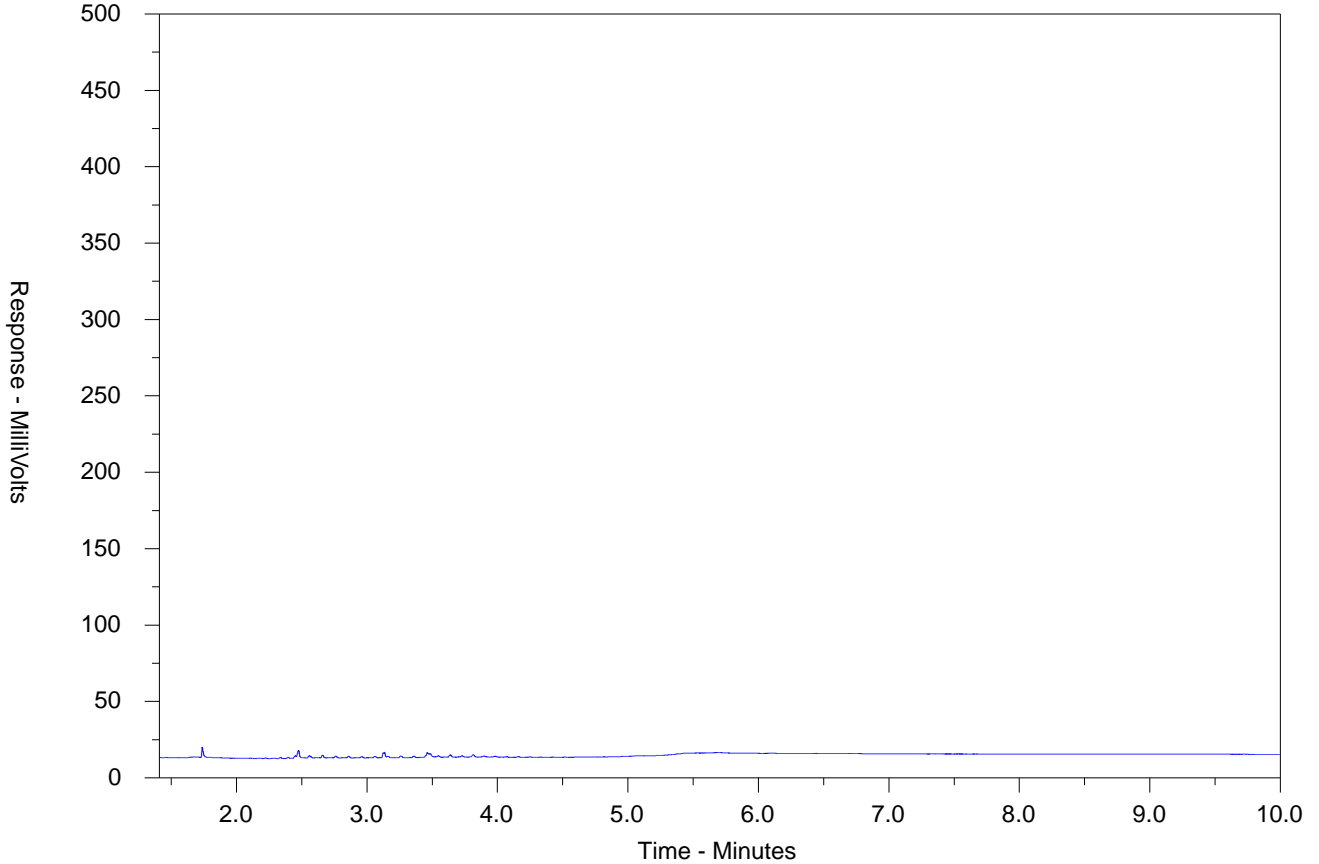
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: WT2508318-008-E601.SG-L
 Client Sample ID: Test Pit 4, Lower



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	575°C		
346°F	549°F	898°F	1067°F		
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 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 four 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 the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

KW-P UG-240
SOL-438, 439



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 7

Page:

Environmental Division
Waterloo
Work Order Reference
WT2508318



Telephone : + 1 519 886 6910

Report To		Reports / Recipients		Turnaround Time (TAT) Requested				
Company: CMT Engineering Inc		Select Report Format: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)		<input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply				
Contact: Jack Feeney		Merge QC/QCI Reports with COA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		<input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum				
Phone: 519-694-5775		<input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked		<input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum				
Company address below will appear on the final report		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		<input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum				
Street: 1011 Industrial Cres		Email 1 or Fax: nchoyosa.cmtinc.net		<input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum				
City/Province: St Clements		Email 2: jfeeney@Cmtinc.net		<input type="checkbox"/> Same day [E2] if received by 10am M-S - 200% rush surcharge. Addit may apply to rush requests on weekends, statutory holidays and non-ro				
Postal Code: N0B 2M0		Email 3:		Date and Time required for all E&P TATs:				
Invoice To: Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Invoice Recipients		For all tests with rush TATs requested, please contact your AM to confirm availability.				
Copy of Invoice with Report <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		Analysis Request				
Company:		Email 1 or Fax: agibbs@Cmtinc.net		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below				
Contact:		Email 2: jfeeney@Cmtinc.net		NUMBER OF CONTAINERS				
Project Information		Oil and Gas Required Fields (client use)		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below				
ALS Account # / Quote #		AFE/Cost Center: PO#		SAMPLES ON HOLD				
Job #: 25-166 - North Saugeen River Access		Major/Minor Code: Routing Code:		EXTENDED STORAGE REQUIRED				
PO / AFE:		Requisitioner:		SUSPECTED HAZARD (see notes)				
LSD:		Location:						
ALS Lab Work Order #: WT2508318 FH		ALS Contact:		Sampler: S. Lingelbach				
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	VOC, BTEX, PACH, FI-F4	Metals: Inorganics	EC, SAR, PH	PAH
	Test Pit 1, Upper	15-04-25	9am	Soil/grub	X	X	X	X
	Test Pit 1, Lower	"	"	"	X	X	X	X
	Test Pit 2, Upper	"	"	"	X	X	X	X
	Test Pit 2, Lower	"	"	"	X	X	X	X
	Test Pit 3, Upper	"	"	"	X	X	X	X
	Test Pit 3, Lower	"	"	"	X	X	X	X
	Test Pit 4, Upper	"	"	"	X	X	X	X
	Test Pit 4, Lower	"	"	"	X	X	X	X
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)				
Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input type="checkbox"/> NO		O. Reg 406 Table 1 RPI1CC Table 2 RPI Table 2 ICC		Cooling Method: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> ICE <input type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED				
Are samples for human consumption/ use? <input type="checkbox"/> YES <input type="checkbox"/> NO				Submission Certificates identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO				
				Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A				
				INITIAL COOLER TEMPERATURES °C: 8.24 FINAL COOLER TEMPERATURES °C:				
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)				
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	
							4/15/25 1340	