Dibromochloromethane	124-48-1	µg/L	----	----	----	----	----	----	----	----
Dibromoethane, 1,2-	106-93-4	µg/L	----	----	----	----	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	µg/L	----	----	----	----	----	----	----	----
Dichlorobenzene, 1,3-	541-73-1	µg/L	----	----	----	----	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	µg/L	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	75-71-8	µg/L	----	----	----	----	----	----	----	----
Dichloroethane, 1,1-	75-34-3	µg/L	----	----	----	----	----	----	----	----
Dichloroethane, 1,2-	107-06-2	µg/L	----	----	----	----	----	----	----	----
Dichloroethylene, 1,1-	75-35-4	µg/L	----	----	----	----	----	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	µg/L	----	----	----	----	----	----	----	----
Dichloroethylene, cis+trans-1,2-	540-59-0	µg/L	----	----	----	----	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	µg/L	----	----	----	----	----	----	----	----
Dichloromethane	75-09-2	µg/L	----	----	----	----	----	----	----	----
Dichloropropane, 1,2-	78-87-5	µg/L	----	----	----	----	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	µg/L	----	----	----	----	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	µg/L	----	----	----	----	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	µg/L	----	----	----	----	----	----	----	----
Ethylbenzene	100-41-4	µg/L	----	----	----	----	----	----	----	----
Hexane, n-	110-54-3	µg/L	----	----	----	----	----	----	----	----
Hexanone, 2-	591-78-6	µg/L	----	----	----	----	----	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	µg/L	----	----	----	----	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	µg/L	----	----	----	----	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	µg/L	----	----	----	----	----	----	----	----
Styrene	100-42-5	µg/L	----	----	----	----	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	µg/L	----	----	----	----	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	µg/L	----	----	----	----	----	----	----	----
Tetrachloroethylene	127-18-4	µg/L	----	----	----	----	----	----	----	----

Toluene	108-88-3	µg/L	----	----	----	----	----	----	----
Trichloroethane, 1,1,1-	71-55-6	µg/L	----	----	----	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	µg/L	----	----	----	----	----	----	----
Trichloroethylene	79-01-6	µg/L	----	----	----	----	----	----	----
Trichlorofluoromethane	75-69-4	µg/L	----	----	----	----	----	----	----
Trihalomethanes [THMs], total		µg/L	----	----	----	----	----	----	----
Vinyl chloride	75-01-4	µg/L	----	----	----	----	----	----	----
Xylene, m+p-	179601-23-1	µg/L	----	----	----	----	----	----	----
Xylene, o-	95-47-6	µg/L	----	----	----	----	----	----	----
Xylenes, total	1330-20-7	µg/L	----	----	----	----	----	----	----
Hydrocarbons									
F1 (C6-C10)		µg/L	----	----	----	----	----	----	----
F2 (C10-C16)	----	µg/L	----	----	----	----	----	----	----
F3 (C16-C34)	----	µg/L	----	----	----	----	----	----	----
F4 (C34-C50)	----	µg/L	----	----	----	----	----	----	----
F1-BTEX		µg/L	----	----	----	----	----	----	----
Hydrocarbons, total (C6-C50)	n/a	µg/L	----	----	----	----	----	----	----
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	µg/L	----	----	----	----	----	----	----
Acenaphthylene	208-96-8	µg/L	----	----	----	----	----	----	----
Acridine	260-94-6	µg/L	----	----	----	----	----	----	----
Anthracene	120-12-7	µg/L	----	----	----	----	----	----	----
Benz(a)anthracene	56-55-3	µg/L	----	----	----	----	----	----	----

Benzo(a)pyrene	50-32-8	µg/L	----	----	----	----	----	----	----
Benzo(b+j)fluoranthene	n/a	µg/L	----	----	----	----	----	----	----
Benzo(b+j+k)fluoranthene	n/a	µg/L	----	----	----	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	µg/L	----	----	----	----	----	----	----
Benzo(k)fluoranthene	207-08-9	µg/L	----	----	----	----	----	----	----
Chrysene	218-01-9	µg/L	----	----	----	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	µg/L	----	----	----	----	----	----	----
Fluoranthene	206-44-0	µg/L	----	----	----	----	----	----	----
Fluorene	86-73-7	µg/L	----	----	----	----	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	µg/L	----	----	----	----	----	----	----
Methylnaphthalene, 1-	90-12-0	µg/L	----	----	----	----	----	----	----
Methylnaphthalene, 1+2-	----	µg/L	----	----	----	----	----	----	----
Methylnaphthalene, 2-	91-57-6	µg/L	----	----	----	----	----	----	----
Naphthalene	91-20-3	µg/L	----	----	----	----	----	----	----
Perylene	198-55-0	µg/L	----	----	----	----	----	----	----
Phenanthrene	85-01-8	µg/L	----	----	----	----	----	----	----
Pyrene	129-00-0	µg/L	----	----	----	----	----	----	----
Quinoline	91-22-5	µg/L	----	----	----	----	----	----	----
B(a)P total potency equivalents [B(a)P TPE]		µg/L	----	----	----	----	----	----	----
Chrysene-d12	1719-03-5	%	----	----	----	----	----	----	----
Naphthalene-d8	1146-65-2	%	----	----	----	----	----	----	----
Phenanthrene-d10	1517-22-2	%	----	----	----	----	----	----	----

CERTIFICATE OF ANALYSIS

Work Order	:	**BF2500307**			
Client	:	**Baffinland Iron Mines Corporation**	Laboratory	:	ALS Environmental - Baffin Island
Contact	:	Environmental Lab Results	Account Manager	:	Rick Hawthorne
Address	:	360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	:	Mary River, Qikqtani Region Baffin Island NU Canada
Telephone	:	----	E-mail	:	Rick.Hawthorne@ALSGlobal.com
Project	:	Landfill_Seep_Investigation	Telephone	:	
PO	:	4500156571	Date Samples Received	:	29-Aug-2025 18:00
C-O-C number	:	25 08 29_Landfill_Seep_Investigation	Date Analysis Commenced	:	30-Aug-2025
Sampler	:	AG, LG	Issue Date	:	11-Sep-2025 09:43
Site	:	MS			
Quote number	:	2024-2025 Scope of Work			
No. of samples received	:	4			
No. of samples analysed	:	4			

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon		Organics, Waterloo, Ontario
Andrea Armstrong		VOC, Waterloo, Ontario
Cedrick Velasco		Inorganics, Baffin Island, Nunavut
Danielle Gravel		Organics, Waterloo, Ontario
Jeremy Gingras		Organics, Waterloo, Ontario
Walt Kippenhuck		Inorganics, Baffin Island, Nunavut
Walt Kippenhuck		Inorganics, Waterloo, Ontario
Walt Kippenhuck		Metals, Waterloo, Ontario
Walt Kippenhuck		Centralized Prep, Waterloo, Ontario

General Comments

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

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

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

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

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

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

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

E641 BF2500307-001 RRR: Detection limit raised due to high analyte recovery in the method blank.

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-MRY-13B_2025-08-29 ----	MS-MRY-13C_2025-08-29 ----	LF-DS-SEEP-01_2025-08-29 ----	LF-US-POND-01_2025-08-29 ----	----
					Client sampling date / time	29-Aug-2025 15:05	29-Aug-2025 15:30	29-Aug-2025 16:10	29-Aug-2025 04:55	----
						BF2500307-001	BF2500307-002	BF2500307-003	BF2500307-004	----
						Result	Result	Result	Result	----
Sample Preparation										
Dissolved carbon filtration location	----	EP358/WT	-	-		field	field	field	field	----
Physical Tests										
Conductivity	----	E100/WT	1.0	µS/cm		923	660	381	218	----
pH	----	E108/BF	0.10	pH units		8.09	7.65	7.93	7.78	----
Solids, total dissolved [TDS]	----	E162/BF	10	mg/L		569	390	202	97	----
Solids, total suspended [TSS]	----	E160-L/BF	1.0	mg/L		<1.1	9.1	1.7	<1.0	----
Turbidity	----	E121/BF	0.10	NTU		0.51	2.91	2.37	1.20	----
Alkalinity, total (as CaCO3)	----	E290/WT	2.0	mg/L		202	175	161	107	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L		0.0331	0.0235	<0.0050	0.0077	----
Bromide	24959-67-9	E235.Br/WT	0.10	mg/L		0.17	0.12	<0.10	<0.10	----
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L		56.4	28.4	7.40	4.02	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L		0.027	0.053	0.076	0.056	----
Kjeldahl nitrogen, total [TKN]	----	E318/WT	0.050	mg/L		0.595	0.301	0.136	0.126	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L		1.68	0.704	0.052	<0.020	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L		<0.010	<0.010	<0.010	<0.010	----
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L		0.0220	0.0062	0.0037	0.0020	----
Phosphorus, total dissolved	7723-14-0	E375-T/WT	0.0020	mg/L		0.0235	0.0071	0.0030	<0.0020	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L		183	117	27.7	1.64	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/WT	0.50	mg/L		5.30	3.44	2.64	2.43	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-MRY-13B_2025-08-29 ----	MS-MRY-13C_2025-08-29 ----	LF-DS-SEEP-01_2025-08-29 ----	LF-US-POND-01_2025-08-29 ----	----
					Client sampling date / time	29-Aug-2025 15:05	29-Aug-2025 15:30	29-Aug-2025 16:10	29-Aug-2025 04:55	----
						BF2500307-001	BF2500307-002	BF2500307-003	BF2500307-004	----
						Result	Result	Result	Result	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L		0.0014	<0.0010	0.0017	<0.0010	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L		0.00032	0.00018	<0.00010	<0.00010	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L		0.00022	0.00015	<0.00010	<0.00010	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L		0.0537	0.0378	0.0189	0.00325	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	----
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L		0.696	0.351	0.044	0.022	----
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L		0.0000250	0.0000107	<0.0000050	<0.0000050	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L		107	94.7	39.0	20.4	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L		0.00064	<0.00050	<0.00050	<0.00050	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L		0.00025	0.00013	0.00010	<0.00010	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L		0.00189	0.00084	0.00092	<0.00020	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L		<0.010	<0.010	0.016	0.030	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L		0.000057	<0.000050	<0.000050	<0.000050	----
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L		0.0737	0.0387	0.0044	0.0020	----
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L		36.8	19.1	18.1	12.4	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L		0.00074	0.00055	0.0297	0.00758	----
Mercury, dissolved	7439-97-6	E509/WT	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	----
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L		0.00100	0.00270	0.00128	0.000094	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L		0.00995	0.00558	0.00115	<0.00050	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	MS-MRY-13B_2025-08-29 ----	MS-MRY-13C_2025-08-29 ----	LF-DS-SEEP-01_2025-08-29 ----	LF-US-POND-01_2025-08-29 ----	----
					Client sampling date / time	29-Aug-2025 15:05	29-Aug-2025 15:30	29-Aug-2025 16:10	29-Aug-2025 04:55	----
Analyte	CAS Number	Method/Lab	LOR	Unit		BF2500307-001	BF2500307-002	BF2500307-003	BF2500307-004	----
						Result	Result	Result	Result	----
Dissolved Metals										
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	----
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L		8.22	6.55	2.79	1.77	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L		0.00565	0.00598	0.00532	0.00154	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L		0.000096	<0.000050	<0.000050	<0.000050	----
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L		4.48	3.31	1.70	1.66	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	----
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L		31.4	14.7	8.46	5.38	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L		0.200	0.240	0.0562	0.0202	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L		71.5	44.6	9.21	0.71	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L		0.0120	0.00821	0.00205	0.000138	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	----
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L		<0.0010	0.0015	0.0031	<0.0010	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00030	mg/L		<0.00030	<0.00030	<0.00030	<0.00030	----
Dissolved mercury filtration location	----	EP509/WT	-	-		Field	Field	Field	Field	----
Dissolved metals filtration location	----	EP421/WT	-	-		Field	Field	Field	Field	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-MRY-13B_2025-08-29 ----	MS-MRY-13C_2025-08-29 ----	LF-DS-SEEP-01_2025-08-29 ----	LF-US-POND-01_2025-08-29 ----	----
					Client sampling date / time	29-Aug-2025 15:05	29-Aug-2025 15:30	29-Aug-2025 16:10	29-Aug-2025 04:55	----
						BF2500307-001	BF2500307-002	BF2500307-003	BF2500307-004	----
						Result	Result	Result	Result	----
Volatile Organic Compounds										
Acetone	67-64-1	E611D/WT	20	µg/L		<20	<20	<20	<20	----
Benzene	71-43-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Bromodichloromethane	75-27-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Bromoform	75-25-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Bromomethane	74-83-9	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
BTEX, total	----	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Carbon disulfide	75-15-0	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Carbon tetrachloride	56-23-5	E611D/WT	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	----
Chlorobenzene	108-90-7	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Chloroethane	75-00-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Chloroform	67-66-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Chloromethane	74-87-3	E611D/WT	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	----
Dibromochloromethane	124-48-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-MRY-13B_2025-08-29 ----	MS-MRY-13C_2025-08-29 ----	LF-DS-SEEP-01_2025-08-29 ----	LF-US-POND-01_2025-08-29 ----	----
					Client sampling date / time	29-Aug-2025 15:05	29-Aug-2025 15:30	29-Aug-2025 16:10	29-Aug-2025 04:55	----
						BF2500307-001	BF2500307-002	BF2500307-003	BF2500307-004	----
						Result	Result	Result	Result	----
Volatile Organic Compounds										
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichloroethylene, cis+trans-1,2-	540-59-0	E611D/WT	0.71	µg/L		<0.71	<0.71	<0.71	<0.71	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.30	µg/L		<0.30	<0.30	<0.30	<0.30	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.50	µg/L		<0.5	<0.5	<0.5	<0.5	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L		<0.30	<0.30	<0.30	<0.30	----
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Hexane, n-	110-54-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Hexanone, 2-	591-78-6	E611D/WT	20	µg/L		<20	<20	<20	<20	----
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	20	µg/L		<20	<20	<20	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	20	µg/L		<20	<20	<20	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Styrene	100-42-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L		<0.50	0.66	<0.50	<0.50	----
Toluene	108-88-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: MS-MRY-13B_2025-08-29 ----	MS-MRY-13C_2025-08-29 ----	LF-DS-SEEP-01_2025-08-29 ----	LF-US-POND-01_2025-08-29 ----	----
				Client sampling date / time	29-Aug-2025 15:05	29-Aug-2025 15:30	29-Aug-2025 16:10	29-Aug-2025 04:55	----
					BF2500307-001	BF2500307-002	BF2500307-003	BF2500307-004	----
					Result	Result	Result	Result	----
Volatile Organic Compounds									
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----
Trichlorofluoromethane	75-69-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----
Trihalomethanes [THMs], total	----	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	----
Vinyl chloride	75-01-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L	<0.40	<0.40	<0.40	<0.40	----
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----
Hydrocarbons									
F1 (C6-C10)	----	E581.F1-L/WT	25	µg/L	<25	<25	<25	<25	----
F2 (C10-C16)	----	E601/WT	100	µg/L	<100	<100	<100	<100	----
F3 (C16-C34)	----	E601/WT	250	µg/L	<250	<250	<250	<250	----
F4 (C34-C50)	----	E601/WT	250	µg/L	<250	<250	<250	<250	----
F1-BTEX	----	EC580/WT	25	µg/L	<25	<25	<25	<25	----
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	370	µg/L	<370	<370	<370	<370	----
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WT	1.0	%	92.1	93.2	92.3	94.4	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1-L/WT	1.0	%	75.1	70.8	74.2	73.9	----
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%	88.9	88.4	88.4	88.2	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%	97.3	97.6	97.2	97.1	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-MRY-13B_2025-08-29 ----	MS-MRY-13C_2025-08-29 ----	LF-DS-SEEP-01_2025-08-29 ----	LF-US-POND-01_2025-08-29 ----	----
					Client sampling date / time	29-Aug-2025 15:05	29-Aug-2025 15:30	29-Aug-2025 16:10	29-Aug-2025 04:55	----
						BF2500307-001	BF2500307-002	BF2500307-003	BF2500307-004	----
						Result	Result	Result	Result	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Acenaphthylene	208-96-8	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Acridine	260-94-6	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Anthracene	120-12-7	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Benz(a)anthracene	56-55-3	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Benzo(a)pyrene	50-32-8	E641A-L/WT	0.0050	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Benzo(b+j+k)fluoranthene	n/a	E641A-L/WT	0.015	µg/L		<0.015	<0.015	<0.015	<0.015	----
Benzo(g,h,i)perylene	191-24-2	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Chrysene	218-01-9	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A-L/WT	0.0050	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	----
Fluoranthene	206-44-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Fluorene	86-73-7	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Methylnaphthalene, 1+2-	----	E641A-L/WT	0.015	µg/L		<0.015	<0.015	<0.015	<0.015	----
Methylnaphthalene, 2-	91-57-6	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Naphthalene	91-20-3	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Perylene	198-55-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----
Phenanthrene	85-01-8	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: MS-MRY-13B_2025-08-29 ----	MS-MRY-13C_2025-08-29 ----	LF-DS-SEEP-01_2025-08-29 ----	LF-US-POND-01_2025-08-29 ----	----
Client sampling date / time					29-Aug-2025 15:05	29-Aug-2025 15:30	29-Aug-2025 16:10	29-Aug-2025 04:55	----
					BF2500307-001	BF2500307-002	BF2500307-003	BF2500307-004	----
					Result	Result	Result	Result	----
Polycyclic Aromatic Hydrocarbons									
Pyrene	129-00-0	E641A-L/WT	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
Quinoline	91-22-5	E641A-L/WT	0.010	µg/L	<0.027 DLM, RRR	<0.029 DLM	<0.018 DLM	<0.020 DLM	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A-L/WT	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
Polycyclic Aromatic Hydrocarbons Surrogates									
Chrysene-d12	1719-03-5	E641A-L/WT	0.1	%	103	103	91.8	94.4	----
Naphthalene-d8	1146-65-2	E641A-L/WT	0.1	%	105	116	112	112	----
Phenanthrene-d10	1517-22-2	E641A-L/WT	0.1	%	105	114	106	107	----

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

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **BF2500307**	Page	: 1 of 21
Client	: **Baffinland Iron Mines Corporation**	Laboratory	: ALS Environmental - Baffin Island
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: Mary River, Qikqtani Region Baffin Island, Nunavut Canada
Telephone	: ----	Telephone	: ----
Project	: Landfill_Seep_Investigation	Date Samples Received	: 29-Aug-2025 18:00
PO	: 4500156571	Issue Date	: 11-Sep-2025 09:43
C-O-C number	: 25 08 29_Landfill_Seep_Investigation		
Sampler	: AG, LG		
Site	: MS		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 4		
No. of samples analysed	: 4		

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 Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- 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)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Polycyclic Aromatic Hydrocarbons	QC-MRG4-2204975 001	----	Quinoline	91-22-5	E641A-L	0.015 µg/L MB-LOR	0.01 µg/L	Blank result exceeds permitted value

Result Qualifiers

Qualifier	Description
MB-LOR	*Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.*

Analysis Holding Time Compliance

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

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

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

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

Matrix: **Water**

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* Rec	*Holding Times* Actual	*Eval*	*Analysis Date*	*Holding Times* Rec	*Holding Times* Actual	*Eval*
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) LF-DS-SEEP-01_2025-08-29	E298	29-Aug-2025	05-Sep-2025	28 days	7 days	✓	07-Sep-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) LF-US-POND-01_2025-08-29	E298	29-Aug-2025	05-Sep-2025	28 days	7 days	✓	07-Sep-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) MS-MRY-13B_2025-08-29	E298	29-Aug-2025	05-Sep-2025	28 days	7 days	✓	07-Sep-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) MS-MRY-13C_2025-08-29	E298	29-Aug-2025	05-Sep-2025	28 days	7 days	✓	07-Sep-2025	28 days	7 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] LF-DS-SEEP-01_2025-08-29	E235.Br	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] MS-MRY-13B_2025-08-29	E235.Br	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP] MS-MRY-13C_2025-08-29	E235.Br	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Bromide in Water by IC										
HDPE [ON MECP]										
LF-US-POND-01_2025-08-29	E235.Br	29-Aug-2025	04-Sep-2025	28 days	7 days	✓	08-Sep-2025	28 days	7 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
LF-DS-SEEP-01_2025-08-29	E235.Cl	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MS-MRY-13B_2025-08-29	E235.Cl	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MS-MRY-13C_2025-08-29	E235.Cl	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
LF-US-POND-01_2025-08-29	E235.Cl	29-Aug-2025	04-Sep-2025	28 days	7 days	✓	08-Sep-2025	28 days	7 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP]										
LF-DS-SEEP-01_2025-08-29	E235.F	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP]										
MS-MRY-13B_2025-08-29	E235.F	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP]										
MS-MRY-13C_2025-08-29	E235.F	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP]										
LF-US-POND-01_2025-08-29	E235.F	29-Aug-2025	04-Sep-2025	28 days	7 days	✓	08-Sep-2025	28 days	7 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] LF-DS-SEEP-01_2025-08-29	E235.NO3	29-Aug-2025	04-Sep-2025	7 days	6 days	✓	08-Sep-2025	7 days	6 days	× EHT
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] MS-MRY-13B_2025-08-29	E235.NO3	29-Aug-2025	04-Sep-2025	7 days	6 days	✓	08-Sep-2025	7 days	6 days	× EHT
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] MS-MRY-13C_2025-08-29	E235.NO3	29-Aug-2025	04-Sep-2025	7 days	6 days	✓	08-Sep-2025	7 days	6 days	× EHT
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] LF-US-POND-01_2025-08-29	E235.NO3	29-Aug-2025	04-Sep-2025	7 days	7 days	✓	08-Sep-2025	7 days	7 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] LF-DS-SEEP-01_2025-08-29	E235.NO2	29-Aug-2025	04-Sep-2025	7 days	6 days	✓	08-Sep-2025	7 days	6 days	× EHT
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] MS-MRY-13B_2025-08-29	E235.NO2	29-Aug-2025	04-Sep-2025	7 days	6 days	✓	08-Sep-2025	7 days	6 days	× EHT
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] MS-MRY-13C_2025-08-29	E235.NO2	29-Aug-2025	04-Sep-2025	7 days	6 days	✓	08-Sep-2025	7 days	6 days	× EHT
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] LF-US-POND-01_2025-08-29	E235.NO2	29-Aug-2025	04-Sep-2025	7 days	7 days	✓	08-Sep-2025	7 days	7 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] LF-DS-SEEP-01_2025-08-29	E235.SO4	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP]										
MS-MRY-13B_2025-08-29	E235.SO4	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP]										
MS-MRY-13C_2025-08-29	E235.SO4	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	08-Sep-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP]										
LF-US-POND-01_2025-08-29	E235.SO4	29-Aug-2025	04-Sep-2025	28 days	7 days	✓	08-Sep-2025	28 days	7 days	✓
Anions and Nutrients : Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass dissolved (sulfuric acid) [ON MECP]										
LF-DS-SEEP-01_2025-08-29	E375-T	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass dissolved (sulfuric acid) [ON MECP]										
LF-US-POND-01_2025-08-29	E375-T	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass dissolved (sulfuric acid) [ON MECP]										
MS-MRY-13B_2025-08-29	E375-T	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass dissolved (sulfuric acid) [ON MECP]										
MS-MRY-13C_2025-08-29	E375-T	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
LF-DS-SEEP-01_2025-08-29	E318	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
LF-US-POND-01_2025-08-29	E318	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
MS-MRY-13B_2025-08-29	E318	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
MS-MRY-13C_2025-08-29	E318	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
LF-DS-SEEP-01_2025-08-29	E372-U	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
LF-US-POND-01_2025-08-29	E372-U	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
MS-MRY-13B_2025-08-29	E372-U	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
MS-MRY-13C_2025-08-29	E372-U	29-Aug-2025	06-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
LF-DS-SEEP-01_2025-08-29	E509	29-Aug-2025	08-Sep-2025	28 days	10 days	✓	08-Sep-2025	28 days	10 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
LF-US-POND-01_2025-08-29	E509	29-Aug-2025	08-Sep-2025	28 days	10 days	✓	08-Sep-2025	28 days	10 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MS-MRY-13B_2025-08-29	E509	29-Aug-2025	08-Sep-2025	28 days	10 days	✓	08-Sep-2025	28 days	10 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MS-MRY-13C_2025-08-29	E509	29-Aug-2025	08-Sep-2025	28 days	10 days	✓	08-Sep-2025	28 days	10 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
LF-DS-SEEP-01_2025-08-29	E421	29-Aug-2025	05-Sep-2025	180 days	7 days	✓	05-Sep-2025	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
LF-US-POND-01_2025-08-29	E421	29-Aug-2025	05-Sep-2025	180 days	7 days	✓	05-Sep-2025	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MS-MRY-13B_2025-08-29	E421	29-Aug-2025	05-Sep-2025	180 days	7 days	✓	05-Sep-2025	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MS-MRY-13C_2025-08-29	E421	29-Aug-2025	05-Sep-2025	180 days	7 days	✓	05-Sep-2025	180 days	7 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
LF-DS-SEEP-01_2025-08-29	E581.F1-L	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	04-Sep-2025	14 days	6 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MS-MRY-13B_2025-08-29	E581.F1-L	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	04-Sep-2025	14 days	6 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MS-MRY-13C_2025-08-29	E581.F1-L	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	04-Sep-2025	14 days	6 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
LF-US-POND-01_2025-08-29	E581.F1-L	29-Aug-2025	04-Sep-2025	14 days	7 days	✓	04-Sep-2025	14 days	7 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MS-MRY-13B_2025-08-29	E601	29-Aug-2025	08-Sep-2025	14 days	10 days	✓	09-Sep-2025	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
LF-DS-SEEP-01_2025-08-29	E601	29-Aug-2025	09-Sep-2025	14 days	11 days	✓	09-Sep-2025	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
LF-US-POND-01_2025-08-29	E601	29-Aug-2025	09-Sep-2025	14 days	11 days	✓	09-Sep-2025	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MS-MRY-13C_2025-08-29	E601	29-Aug-2025	09-Sep-2025	14 days	11 days	✓	09-Sep-2025	40 days	0 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP]										
LF-DS-SEEP-01_2025-08-29	E358-L	29-Aug-2025	05-Sep-2025	28 days	7 days	✓	08-Sep-2025	28 days	7 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP]										
MS-MRY-13B_2025-08-29	E358-L	29-Aug-2025	05-Sep-2025	28 days	7 days	✓	08-Sep-2025	28 days	7 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP]										
MS-MRY-13C_2025-08-29	E358-L	29-Aug-2025	05-Sep-2025	28 days	7 days	✓	08-Sep-2025	28 days	7 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) [ON MECP]										
LF-US-POND-01_2025-08-29	E358-L	29-Aug-2025	05-Sep-2025	28 days	8 days	✓	08-Sep-2025	28 days	8 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP]										
LF-DS-SEEP-01_2025-08-29	E290	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	05-Sep-2025	14 days	6 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] MS-MRY-13B_2025-08-29	E290	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	05-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] MS-MRY-13C_2025-08-29	E290	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	05-Sep-2025	14 days	6 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] LF-US-POND-01_2025-08-29	E290	29-Aug-2025	04-Sep-2025	14 days	7 days	✓	05-Sep-2025	14 days	7 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] LF-DS-SEEP-01_2025-08-29	E100	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	05-Sep-2025	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] MS-MRY-13B_2025-08-29	E100	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	05-Sep-2025	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] MS-MRY-13C_2025-08-29	E100	29-Aug-2025	04-Sep-2025	28 days	6 days	✓	05-Sep-2025	28 days	6 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] LF-US-POND-01_2025-08-29	E100	29-Aug-2025	04-Sep-2025	28 days	7 days	✓	05-Sep-2025	28 days	7 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] LF-DS-SEEP-01_2025-08-29	E108	29-Aug-2025	30-Aug-2025	14 days	1 days	✓	30-Aug-2025	14 days	1 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] LF-US-POND-01_2025-08-29	E108	29-Aug-2025	30-Aug-2025	14 days	1 days	✓	30-Aug-2025	14 days	1 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter										
HDPE [ON MECP]										
MS-MRY-13B_2025-08-29	E108	29-Aug-2025	30-Aug-2025	14 days	1 days	✓	30-Aug-2025	14 days	1 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP]										
MS-MRY-13C_2025-08-29	E108	29-Aug-2025	30-Aug-2025	14 days	1 days	✓	30-Aug-2025	14 days	1 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP]										
LF-DS-SEEP-01_2025-08-29	E162	29-Aug-2025	----	----	----		31-Aug-2025	7 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP]										
LF-US-POND-01_2025-08-29	E162	29-Aug-2025	----	----	----		31-Aug-2025	7 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP]										
MS-MRY-13B_2025-08-29	E162	29-Aug-2025	----	----	----		31-Aug-2025	7 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP]										
MS-MRY-13C_2025-08-29	E162	29-Aug-2025	----	----	----		31-Aug-2025	7 days	2 days	✓
Physical Tests : TSS by Gravimetry (Low Level)										
HDPE [ON MECP]										
LF-DS-SEEP-01_2025-08-29	E160-L	29-Aug-2025	----	----	----		30-Aug-2025	7 days	1 days	✓
Physical Tests : TSS by Gravimetry (Low Level)										
HDPE [ON MECP]										
LF-US-POND-01_2025-08-29	E160-L	29-Aug-2025	----	----	----		30-Aug-2025	7 days	1 days	✓
Physical Tests : TSS by Gravimetry (Low Level)										
HDPE [ON MECP]										
MS-MRY-13B_2025-08-29	E160-L	29-Aug-2025	----	----	----		30-Aug-2025	7 days	1 days	✓

Matrix: **Water**

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TSS by Gravimetry (Low Level)										
HDPE [ON MECP]										
MS-MRY-13C_2025-08-29	E160-L	29-Aug-2025	----	----	----		30-Aug-2025	7 days	1 days	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP]										
LF-DS-SEEP-01_2025-08-29	E121	29-Aug-2025	----	----	----		30-Aug-2025	48 hrs	17 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP]										
MS-MRY-13C_2025-08-29	E121	29-Aug-2025	----	----	----		30-Aug-2025	48 hrs	17 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP]										
MS-MRY-13B_2025-08-29	E121	29-Aug-2025	----	----	----		30-Aug-2025	48 hrs	18 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP]										
LF-US-POND-01_2025-08-29	E121	29-Aug-2025	----	----	----		30-Aug-2025	48 hrs	28 hrs	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS (Low Level)										
Amber glass/Teflon lined cap (sodium bisulfate)										
MS-MRY-13B_2025-08-29	E641A-L	29-Aug-2025	08-Sep-2025	14 days	10 days	✓	08-Sep-2025	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS (Low Level)										
Amber glass/Teflon lined cap (sodium bisulfate)										
LF-DS-SEEP-01_2025-08-29	E641A-L	29-Aug-2025	09-Sep-2025	14 days	11 days	✓	09-Sep-2025	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS (Low Level)										
Amber glass/Teflon lined cap (sodium bisulfate)										
LF-US-POND-01_2025-08-29	E641A-L	29-Aug-2025	09-Sep-2025	14 days	11 days	✓	09-Sep-2025	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS (Low Level)										
Amber glass/Teflon lined cap (sodium bisulfate)										
MS-MRY-13C_2025-08-29	E641A-L	29-Aug-2025	09-Sep-2025	14 days	11 days	✓	09-Sep-2025	40 days	0 days	✓

Matrix: **Water**

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 vial (sodium bisulfate) LF-DS-SEEP-01_2025-08-29	E611D	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	04-Sep-2025	14 days	6 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MS-MRY-13B_2025-08-29	E611D	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	04-Sep-2025	14 days	6 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MS-MRY-13C_2025-08-29	E611D	29-Aug-2025	04-Sep-2025	14 days	6 days	✓	04-Sep-2025	14 days	6 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) LF-US-POND-01_2025-08-29	E611D	29-Aug-2025	04-Sep-2025	14 days	7 days	✓	04-Sep-2025	14 days	7 days	✓

Legend & Qualifier Definitions

EHT: Exceeded ALS recommended hold time prior to analysis.

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: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Conductivity in Water	E100	2199621	1	18	5.5	5.0	✓
pH by Meter	E108	2191835	1	8	12.5	5.0	✓
Turbidity by Nephelometry	E121	2191836	1	8	12.5	5.0	✓
TSS by Gravimetry (Low Level)	E160-L	2191849	1	8	12.5	5.0	✓
TDS by Gravimetry	E162	2191850	1	8	12.5	5.0	✓
Bromide in Water by IC	E235.Br	2199624	1	6	16.6	5.0	✓
Chloride in Water by IC	E235.Cl	2199628	1	10	10.0	5.0	✓
Fluoride in Water by IC	E235.F	2199625	1	10	10.0	5.0	✓
Nitrite in Water by IC	E235.NO2	2199627	1	8	12.5	5.0	✓
Nitrate in Water by IC	E235.NO3	2199626	1	18	5.5	5.0	✓
Sulfate in Water by IC	E235.SO4	2199629	1	9	11.1	5.0	✓
Alkalinity Species by Titration	E290	2199622	1	8	12.5	5.0	✓
Ammonia by Fluorescence	E298	2201872	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2201870	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2202722	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201871	1	20	5.0	5.0	✓
Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)	E375-T	2203389	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2200849	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2201321	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	2199634	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	2199633	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Conductivity in Water	E100	2199621	1	18	5.5	5.0	✓
pH by Meter	E108	2191835	1	8	12.5	5.0	✓
Turbidity by Nephelometry	E121	2191836	1	8	12.5	5.0	✓
TSS by Gravimetry (Low Level)	E160-L	2191849	1	8	12.5	5.0	✓
TDS by Gravimetry	E162	2191850	1	8	12.5	5.0	✓
Bromide in Water by IC	E235.Br	2199624	1	6	16.6	5.0	✓
Chloride in Water by IC	E235.Cl	2199628	1	10	10.0	5.0	✓
Fluoride in Water by IC	E235.F	2199625	1	10	10.0	5.0	✓
Nitrite in Water by IC	E235.NO2	2199627	1	8	12.5	5.0	✓
Nitrate in Water by IC	E235.NO3	2199626	1	18	5.5	5.0	✓
Sulfate in Water by IC	E235.SO4	2199629	1	9	11.1	5.0	✓
Alkalinity Species by Titration	E290	2199622	1	8	12.5	5.0	✓
Ammonia by Fluorescence	E298	2201872	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2201870	1	20	5.0	5.0	✓

Matrix: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Control Samples (LCS) - Continued							
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2202722	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201871	1	20	5.0	5.0	✓
Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)	E375-T	2203389	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2200849	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2201321	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	2199634	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID	E601	2204975	2	25	8.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	2199633	1	20	5.0	5.0	✓
PAHs in Water by Hexane LVI GC-MS (Low Level)	E641A-L	2204976	2	23	8.7	5.0	✓
Method Blanks (MB)							
Conductivity in Water	E100	2199621	1	18	5.5	5.0	✓
Turbidity by Nephelometry	E121	2191836	1	8	12.5	5.0	✓
TSS by Gravimetry (Low Level)	E160-L	2191849	1	8	12.5	5.0	✓
TDS by Gravimetry	E162	2191850	1	8	12.5	5.0	✓
Bromide in Water by IC	E235.Br	2199624	1	6	16.6	5.0	✓
Chloride in Water by IC	E235.Cl	2199628	1	10	10.0	5.0	✓
Fluoride in Water by IC	E235.F	2199625	1	10	10.0	5.0	✓
Nitrite in Water by IC	E235.NO2	2199627	1	8	12.5	5.0	✓
Nitrate in Water by IC	E235.NO3	2199626	1	18	5.5	5.0	✓
Sulfate in Water by IC	E235.SO4	2199629	1	9	11.1	5.0	✓
Alkalinity Species by Titration	E290	2199622	1	8	12.5	5.0	✓
Ammonia by Fluorescence	E298	2201872	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2201870	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2202722	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201871	1	20	5.0	5.0	✓
Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)	E375-T	2203389	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2200849	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2201321	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	2199634	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID	E601	2204975	2	25	8.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	2199633	1	20	5.0	5.0	✓
PAHs in Water by Hexane LVI GC-MS (Low Level)	E641A-L	2204976	2	23	8.7	5.0	✓
Matrix Spikes (MS)							
Bromide in Water by IC	E235.Br	2199624	1	6	16.6	5.0	✓
Chloride in Water by IC	E235.Cl	2199628	1	10	10.0	5.0	✓
Fluoride in Water by IC	E235.F	2199625	1	10	10.0	5.0	✓
Nitrite in Water by IC	E235.NO2	2199627	1	8	12.5	5.0	✓
Nitrate in Water by IC	E235.NO3	2199626	1	18	5.5	5.0	✓
Sulfate in Water by IC	E235.SO4	2199629	1	9	11.1	5.0	✓

Matrix: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Ammonia by Fluorescence	E298	2201872	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2201870	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	2202722	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201871	1	20	5.0	5.0	✓
Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)	E375-T	2203389	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2200849	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	2201321	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	2199634	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	2199633	1	20	5.0	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 Water	E100 ALS Environmental - Waterloo	Water	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 water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 ALS Environmental - Baffin Island	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Turbidity by Nephelometry	E121 ALS Environmental - Baffin Island	Water	APHA 2130 B (mod)	Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.
TSS by Gravimetry (Low Level)	E160-L ALS Environmental - Baffin Island	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at 104 ± 1°C, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
TDS by Gravimetry	E162 ALS Environmental - Baffin Island	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at 180 ± 2°C for 16 hours or to constant weight, with gravimetric measurement of the residue.
Bromide in Water by IC	E235.Br ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Fluoride in Water by IC	E235.F ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC	E235.NO2 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Nitrate in Water by IC	E235.NO3 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Alkalinity Species by Titration	E290 ALS Environmental - Waterloo	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.
Ammonia by Fluorescence	E298 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	TKN in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021).
Dissolved Organic Carbon by Combustion (Low Level)	E358-L ALS Environmental - Waterloo	Water	APHA 5310 B (mod)	Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO2. NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
Total Dissolved Phosphorus by Colourimetry (0.002 mg/L)	E375-T ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Total Dissolved Phosphorus is determined colourimetrically using a discrete analyzer after filtration through a 0.45 micron filter followed by heated persulfate digestion of the sample.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	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. 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	E601 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Sample extracts are analyzed 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. 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	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs in Water by Hexane LVI GC-MS (Low Level)	E641A-L ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
Sum F1 to F4 (C6-C50)	EC581 ALS Environmental - Waterloo	Water	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.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Waterloo	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Digestion for TKN in water	EP318 ALS Environmental - Waterloo	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Preparation for Dissolved Organic Carbon for Combustion	EP358 ALS Environmental - Waterloo	Water	APHA 5310 B (mod)	Preparation for Dissolved Organic Carbon

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Digestion for Dissolved Phosphorus in water	EP375 ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Samples are filtered through a 0.45 micron membrane filter and then heated with a persulfate digestion reagent.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: **BF2500307**	Page	: 1 of 21
Client	: Baffinland Iron Mines Corporation	Laboratory	: ALS Environmental - Baffin Island
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville ON Canada L6H 6K8	Address	: Mary River, Qikqtani Region Baffin Island, Nunavut Canada
Telephone	: ----	Telephone	:
Project	: Landfill_Seep_Investigation	Date Samples Received	: 29-Aug-2025 18:00
PO	: 4500156571	Date Analysis Commenced	: 30-Aug-2025
C-O-C number	: 25 08 29_Landfill_Seep_Investigation	Issue Date	: 11-Sep-2025 09:43
Sampler	: AG, LG		
Site	: MS		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 4		
No. of samples analysed	: 4		

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

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

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

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Waterloo VOC, Waterloo, Ontario
Cedrick Velasco	Lab Manager	Baffin Island Inorganics, Baffin Island, Nunavut
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Centralized Prep, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario
Walt Kippenhuck	Team Leader - Inorganics	Baffin Island Inorganics, Baffin Island, Nunavut

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: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2191835)											
BF2500305-001	Anonymous	pH	----	E108	0.10	pH units	5.28	5.29	0.189%	4%	----
Physical Tests (QC Lot: 2191836)											
BF2500305-002	Anonymous	Turbidity	----	E121	0.10	NTU	15.4	15.6	1.29%	15%	----
Physical Tests (QC Lot: 2191849)											
BF2500306-001	Anonymous	Solids, total suspended [TSS]	----	E160-L	1.3	mg/L	28.5	29.7	4.13%	20%	----
Physical Tests (QC Lot: 2191850)											
BF2500306-002	Anonymous	Solids, total dissolved [TDS]	----	E162	13	mg/L	266	285	6.78%	20%	----
Physical Tests (QC Lot: 2199621)											
WT2524354-001	Anonymous	Conductivity	----	E100	2.0	µS/cm	872	874	0.229%	10%	----
Physical Tests (QC Lot: 2199622)											
WT2524354-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	2.0	mg/L	294	288	2.09%	20%	----
Anions and Nutrients (QC Lot: 2199624)											
BF2500306-001	Anonymous	Bromide	24959-67-9	E235.Br	0.10	mg/L	<0.10	<0.10	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2199625)											
BF2500306-001	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.099	0.091	0.008	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2199626)											
BF2500306-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	0.201	0.196	0.005	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2199627)											
BF2500306-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2199628)											
BF2500306-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	49.0	48.6	0.758%	20%	----
Anions and Nutrients (QC Lot: 2199629)											
BF2500306-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	58.4	58.3	0.234%	20%	----
Anions and Nutrients (QC Lot: 2201870)											
BF2500303-002	Anonymous	Kjeldahl nitrogen, total [TKN]	----	E318	0.050	mg/L	2.17	2.13	2.05%	20%	----
Anions and Nutrients (QC Lot: 2201871)											
BF2500303-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0050	0.0051	0.0001	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2201872)											
BF2500304-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0500	mg/L	2.20	2.28	3.29%	20%	----
Anions and Nutrients (QC Lot: 2203389)											

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 2203389) - continued											
BF2500299-001	Anonymous	Phosphorus, total dissolved	7723-14-0	E375-T	0.0020	mg/L	0.0026	0.0023	0.0003	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 2202722)											
BF2500298-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	1.64	1.37	0.27	Diff <2x LOR	----
Dissolved Metals (QC Lot: 2200849)											
BF2500298-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0139	0.0150	7.26%	20%	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.00952	0.00991	3.94%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	14.9	14.9	0.317%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00083	0.00084	0.000008	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.012	0.013	0.0007	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	9.37	9.52	1.61%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00076	0.00080	0.00004	Diff <2x LOR	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000483	0.000470	0.000013	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00051	0.00051	0.000004	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	1.08	1.08	0.577%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00154	0.00158	0.00004	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	0.837	0.854	2.06%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	2.68	2.72	1.15%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.0155	0.0154	0.494%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	2.11	2.07	0.04	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Dissolved Metals (QC Lot: 2200849) - continued											
BF2500298-001	Anonymous	Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	0.00045	0.00036	0.00009	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.00279	0.00278	0.334%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 2201321)											
BF2500303-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 2199633)											
BF2500303-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon disulfide	75-15-0	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroethane	75-00-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloromethane	74-87-3	E611D	2.0	µg/L	<2.0	<2.0	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	0.94	0.92	0.02	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 2199633) - continued											
BF2500303-001	Anonymous	Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexanone, 2-	591-78-6	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 2199634)											
BF2500303-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	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: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2191836)						
Turbidity	----	E121	0.1	NTU	<0.10	----
Physical Tests (QCLot: 2191849)						
Solids, total suspended [TSS]	----	E160-L	1	mg/L	<1.0	----
Physical Tests (QCLot: 2191850)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 2199621)						
Conductivity	----	E100	1	µS/cm	1.5	----
Physical Tests (QCLot: 2199622)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Anions and Nutrients (QCLot: 2199624)						
Bromide	24959-67-9	E235.Br	0.1	mg/L	<0.10	----
Anions and Nutrients (QCLot: 2199625)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2199626)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2199627)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 2199628)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 2199629)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 2201870)						
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 2201871)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 2201872)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 2203389)						
Phosphorus, total dissolved	7723-14-0	E375-T	0.002	mg/L	<0.0020	----
Organic / Inorganic Carbon (QCLot: 2202722)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Dissolved Metals (QCLot: 2200849)						

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 2200849) - continued						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 2200849) - continued						
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 2201321)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Volatile Organic Compounds (QCLot: 2199633)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon disulfide	75-15-0	E611D	1	µg/L	<1.0	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroethane	75-00-3	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Chloromethane	74-87-3	E611D	2	µg/L	<2.0	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 2199633) - continued						
Hexanone, 2-	591-78-6	E611D	20	µg/L	<20	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.2	µg/L	<0.20	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 2199634)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 2204975)						
F2 (C10-C16)	----	E601	100	µg/L	<100	----
F3 (C16-C34)	----	E601	250	µg/L	<250	----
F4 (C34-C50)	----	E601	250	µg/L	<250	----
Hydrocarbons (QCLot: 2205708)						
F2 (C10-C16)	----	E601	100	µg/L	<100	----
F3 (C16-C34)	----	E601	250	µg/L	<250	----
F4 (C34-C50)	----	E601	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 2204976)						
Acenaphthene	83-32-9	E641A-L	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A-L	0.01	µg/L	<0.010	----
Acridine	260-94-6	E641A-L	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A-L	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A-L	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A-L	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A-L	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A-L	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 2204976) - continued						
Benzo(k)fluoranthene	207-08-9	E641A-L	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A-L	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A-L	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A-L	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A-L	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A-L	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A-L	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A-L	0.01	µg/L	<0.010	----
Perylene	198-55-0	E641A-L	0.01	µg/L	<0.010	----
Phenanthrene	85-01-8	E641A-L	0.01	µg/L	<0.010	----
Pyrene	129-00-0	E641A-L	0.01	µg/L	<0.010	----
Quinoline	91-22-5	E641A-L	0.01	µg/L	# 0.015	MB-LOR
Polycyclic Aromatic Hydrocarbons (QCLot: 2205709)						
Acenaphthene	83-32-9	E641A-L	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A-L	0.01	µg/L	<0.010	----
Acridine	260-94-6	E641A-L	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A-L	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A-L	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A-L	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A-L	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A-L	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A-L	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A-L	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A-L	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A-L	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A-L	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A-L	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A-L	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A-L	0.01	µg/L	<0.010	----
Perylene	198-55-0	E641A-L	0.01	µg/L	<0.010	----
Phenanthrene	85-01-8	E641A-L	0.01	µg/L	<0.010	----
Pyrene	129-00-0	E641A-L	0.01	µg/L	<0.010	----
Quinoline	91-22-5	E641A-L	0.01	µg/L	<0.010	----

Qualifiers

Qualifier	Description
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.

Laboratory Control Sample (LCS) Report

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

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2191835)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 2191836)									
Turbidity	----	E121	0.1	NTU	200 NTU	99.0	85.0	115	----
Physical Tests (QCLot: 2191849)									
Solids, total suspended [TSS]	----	E160-L	1	mg/L	250 mg/L	101	85.0	115	----
Physical Tests (QCLot: 2191850)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	850 mg/L	97.3	85.0	115	----
Physical Tests (QCLot: 2199621)									
Conductivity	----	E100	1	µS/cm	1410 µS/cm	103	90.0	110	----
Physical Tests (QCLot: 2199622)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	150 mg/L	98.7	85.0	115	----
Anions and Nutrients (QCLot: 2199624)									
Bromide	24959-67-9	E235.Br	0.1	mg/L	0.5 mg/L	96.8	85.0	115	----
Anions and Nutrients (QCLot: 2199625)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	105	90.0	110	----
Anions and Nutrients (QCLot: 2199626)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 2199627)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	98.6	90.0	110	----
Anions and Nutrients (QCLot: 2199628)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	100.0	90.0	110	----
Anions and Nutrients (QCLot: 2199629)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 2201870)									
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	4 mg/L	99.8	75.0	125	----
Anions and Nutrients (QCLot: 2201871)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.333 mg/L	99.6	80.0	120	----
Anions and Nutrients (QCLot: 2201872)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	97.5	85.0	115	----
Anions and Nutrients (QCLot: 2203389)									
Phosphorus, total dissolved	7723-14-0	E375-T	0.002	mg/L	0.333 mg/L	105	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Organic / Inorganic Carbon (QCLot: 2202722)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	100	80.0	120	----
Dissolved Metals (QCLot: 2200849)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	103	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	102	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	105	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.012 mg/L	104	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	104	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	101	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	102	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	102	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.002 mg/L	109	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.012 mg/L	104	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.012 mg/L	102	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.012 mg/L	101	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	104	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	102	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.012 mg/L	102	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	108	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.012 mg/L	101	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.012 mg/L	104	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	102	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	102	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	98.5	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	104	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	101	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	100	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	106	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	103	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.012 mg/L	103	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	105	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	98.4	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	99.9	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	98.0	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 2200849) - continued									
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	100	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.012 mg/L	100	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	101	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0 mg/L	102	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	103	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	102	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	98.1	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	91.0	80.0	120	----
Volatile Organic Compounds (QCLot: 2199633)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	127	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	76.2	60.0	140	----
Carbon disulfide	75-15-0	E611D	1	µg/L	100 µg/L	92.9	70.0	130	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	102	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Chloroethane	75-00-3	E611D	0.5	µg/L	100 µg/L	100	60.0	140	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Chloromethane	74-87-3	E611D	2	µg/L	100 µg/L	104	60.0	140	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	89.4	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	94.5	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	98.0	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	98.0	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	97.1	70.0	130	----

Sub-Matrix: **Water**

					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: 2199633) - continued									
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Hexanone, 2-	591-78-6	E611D	20	µg/L	100 µg/L	91.4	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	116	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	91.5	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	98.3	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	99.6	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	96.5	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	97.8	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	92.5	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	101	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.2	µg/L	100 µg/L	101	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	104	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	106	70.0	130	----
Hydrocarbons (QCLot: 2199634)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	97.7	80.0	120	----
Hydrocarbons (QCLot: 2204975)									
F2 (C10-C16)	----	E601	100	µg/L	3770 µg/L	110	70.0	130	----
F3 (C16-C34)	----	E601	250	µg/L	7760 µg/L	120	70.0	130	----
F4 (C34-C50)	----	E601	250	µg/L	4200 µg/L	109	70.0	130	----
Hydrocarbons (QCLot: 2205708)									
F2 (C10-C16)	----	E601	100	µg/L	3770 µg/L	97.8	70.0	130	----
F3 (C16-C34)	----	E601	250	µg/L	7760 µg/L	106	70.0	130	----
F4 (C34-C50)	----	E601	250	µg/L	4200 µg/L	113	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 2204976)									
Acenaphthene	83-32-9	E641A-L	0.01	µg/L	0.526 µg/L	96.8	50.0	140	----
Acenaphthylene	208-96-8	E641A-L	0.01	µg/L	0.526 µg/L	89.5	50.0	140	----
Acridine	260-94-6	E641A-L	0.01	µg/L	0.526 µg/L	109	50.0	140	----
Anthracene	120-12-7	E641A-L	0.01	µg/L	0.526 µg/L	86.4	50.0	140	----
Benz(a)anthracene	56-55-3	E641A-L	0.01	µg/L	0.526 µg/L	106	50.0	140	----

Sub-Matrix: **Water**

					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: 2204976) - continued									
Benzo(a)pyrene	50-32-8	E641A-L	0.005	µg/L	0.526 µg/L	86.1	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A-L	0.01	µg/L	0.526 µg/L	79.5	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A-L	0.01	µg/L	0.526 µg/L	109	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A-L	0.01	µg/L	0.526 µg/L	83.2	50.0	140	----
Chrysene	218-01-9	E641A-L	0.01	µg/L	0.526 µg/L	104	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A-L	0.005	µg/L	0.526 µg/L	113	50.0	140	----
Fluoranthene	206-44-0	E641A-L	0.01	µg/L	0.526 µg/L	100	50.0	140	----
Fluorene	86-73-7	E641A-L	0.01	µg/L	0.526 µg/L	96.7	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L	0.01	µg/L	0.526 µg/L	121	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A-L	0.01	µg/L	0.526 µg/L	94.5	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A-L	0.01	µg/L	0.526 µg/L	99.7	50.0	140	----
Naphthalene	91-20-3	E641A-L	0.01	µg/L	0.526 µg/L	94.8	50.0	140	----
Perylene	198-55-0	E641A-L	0.01	µg/L	0.526 µg/L	97.2	50.0	140	----
Phenanthrene	85-01-8	E641A-L	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Pyrene	129-00-0	E641A-L	0.01	µg/L	0.526 µg/L	100	50.0	140	----
Quinoline	91-22-5	E641A-L	0.01	µg/L	0.526 µg/L	108	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 2205709)									
Acenaphthene	83-32-9	E641A-L	0.01	µg/L	0.526 µg/L	103	50.0	140	----
Acenaphthylene	208-96-8	E641A-L	0.01	µg/L	0.526 µg/L	95.5	50.0	140	----
Acridine	260-94-6	E641A-L	0.01	µg/L	0.526 µg/L	122	50.0	140	----
Anthracene	120-12-7	E641A-L	0.01	µg/L	0.526 µg/L	88.7	50.0	140	----
Benz(a)anthracene	56-55-3	E641A-L	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A-L	0.005	µg/L	0.526 µg/L	82.5	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A-L	0.01	µg/L	0.526 µg/L	76.0	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A-L	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A-L	0.01	µg/L	0.526 µg/L	87.3	50.0	140	----
Chrysene	218-01-9	E641A-L	0.01	µg/L	0.526 µg/L	111	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A-L	0.005	µg/L	0.526 µg/L	89.5	50.0	140	----
Fluoranthene	206-44-0	E641A-L	0.01	µg/L	0.526 µg/L	107	50.0	140	----
Fluorene	86-73-7	E641A-L	0.01	µg/L	0.526 µg/L	104	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L	0.01	µg/L	0.526 µg/L	95.4	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A-L	0.01	µg/L	0.526 µg/L	100	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A-L	0.01	µg/L	0.526 µg/L	105	50.0	140	----
Naphthalene	91-20-3	E641A-L	0.01	µg/L	0.526 µg/L	100	50.0	140	----
Perylene	198-55-0	E641A-L	0.01	µg/L	0.526 µg/L	91.8	50.0	140	----
Phenanthrene	85-01-8	E641A-L	0.01	µg/L	0.526 µg/L	109	50.0	140	----

Sub-Matrix: **Water**

					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: 2205709) - continued									
Pyrene	129-00-0	E641A-L	0.01	µg/L	0.526 µg/L	107	50.0	140	----
Quinoline	91-22-5	E641A-L	0.01	µg/L	0.526 µg/L	107	50.0	140	----

Matrix Spike (MS) Report

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

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 2199624)										
BF2500306-001	Anonymous	Bromide	24959-67-9	E235.Br	0.48 mg/L	0.5 mg/L	95.5	75.0	125	----
Anions and Nutrients (QCLot: 2199625)										
BF2500306-001	Anonymous	Fluoride	16984-48-8	E235.F	0.907 mg/L	1 mg/L	90.7	75.0	125	----
Anions and Nutrients (QCLot: 2199626)										
BF2500306-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	2.43 mg/L	2.5 mg/L	97.1	75.0	125	----
Anions and Nutrients (QCLot: 2199627)										
BF2500306-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.469 mg/L	0.5 mg/L	93.8	75.0	125	----
Anions and Nutrients (QCLot: 2199628)										
BF2500306-001	Anonymous	Chloride	16887-00-6	E235.Cl	98.6 mg/L	100 mg/L	98.6	75.0	125	----
Anions and Nutrients (QCLot: 2199629)										
BF2500306-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	97.8 mg/L	100 mg/L	97.8	75.0	125	----
Anions and Nutrients (QCLot: 2201870)										
BF2500303-002	Anonymous	Kjeldahl nitrogen, total [TKN]	----	E318	2.62 mg/L	2.5 mg/L	105	70.0	130	----
Anions and Nutrients (QCLot: 2201871)										
BF2500303-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0965 mg/L	0.1 mg/L	96.5	70.0	130	----
Anions and Nutrients (QCLot: 2201872)										
BF2500304-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 2203389)										
BF2500299-001	Anonymous	Phosphorus, total dissolved	7723-14-0	E375-T	0.0939 mg/L	0.1 mg/L	93.9	70.0	130	----
Organic / Inorganic Carbon (QCLot: 2202722)										
BF2500298-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	4.72 mg/L	5 mg/L	94.3	70.0	130	----
Dissolved Metals (QCLot: 2200849)										
BF2500298-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.101 mg/L	0.1 mg/L	101	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0516 mg/L	0.05 mg/L	103	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0564 mg/L	0.05 mg/L	113	70.0	130	----
		Barium, dissolved	7440-39-3	E421	0.0127 mg/L	0.012 mg/L	101	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00536 mg/L	0.005 mg/L	107	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0439 mg/L	0.05 mg/L	87.9	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.050 mg/L	0.05 mg/L	101	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00535 mg/L	0.005 mg/L	107	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00269 mg/L	0.002 mg/L	108	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0126 mg/L	0.012 mg/L	101	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 2200849) - continued										
BF2500298-002	Anonymous	Cobalt, dissolved	7440-48-4	E421	0.0124 mg/L	0.012 mg/L	99.0	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0124 mg/L	0.012 mg/L	99.5	70.0	130	----
		Iron, dissolved	7439-89-6	E421	0.052 mg/L	0.05 mg/L	104	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0251 mg/L	0.025 mg/L	100	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0128 mg/L	0.012 mg/L	102	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0123 mg/L	0.012 mg/L	98.4	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0129 mg/L	0.012 mg/L	103	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0247 mg/L	0.025 mg/L	98.7	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.578 mg/L	0.5 mg/L	116	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	2.61 mg/L	2.5 mg/L	104	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00526 mg/L	0.005 mg/L	105	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0616 mg/L	0.05 mg/L	123	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	----	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00507 mg/L	0.005 mg/L	101	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	2.65 mg/L	2.5 mg/L	106	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00556 mg/L	0.005 mg/L	111	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0492 mg/L	0.05 mg/L	98.5	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00470 mg/L	0.005 mg/L	93.9	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0256 mg/L	0.025 mg/L	103	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0125 mg/L	0.012 mg/L	100.0	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00496 mg/L	0.005 mg/L	99.3	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	----	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0256 mg/L	0.025 mg/L	102	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0272 mg/L	0.025 mg/L	109	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00473 mg/L	0.005 mg/L	94.6	70.0	130	----
Dissolved Metals (QCLot: 2201321)										
BF2500303-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000899 mg/L	0 mg/L	89.9	70.0	130	----
Volatile Organic Compounds (QCLot: 2199633)										
BF2500303-001	Anonymous	Acetone	67-64-1	E611D	110 µg/L	100 µg/L	110	60.0	140	----
		Benzene	71-43-2	E611D	95.1 µg/L	100 µg/L	95.1	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	86.9 µg/L	100 µg/L	86.9	60.0	140	----
		Bromoform	75-25-2	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Bromomethane	74-83-9	E611D	63.0 µg/L	100 µg/L	63.0	60.0	140	----
		Carbon disulfide	75-15-0	E611D	80.5 µg/L	100 µg/L	80.5	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	92.8 µg/L	100 µg/L	92.8	60.0	140	----
		Chlorobenzene	108-90-7	E611D	91.6 µg/L	100 µg/L	91.6	60.0	140	----
		Chloroethane	75-00-3	E611D	84.5 µg/L	100 µg/L	84.5	60.0	140	----
		Chloroform	67-66-3	E611D	89.6 µg/L	100 µg/L	89.6	60.0	140	----
		Chloromethane	74-87-3	E611D	82.7 µg/L	100 µg/L	82.7	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	88.8 µg/L	100 µg/L	88.8	60.0	140	----

Sub-Matrix: **Water**

					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: 2199633) - continued										
BF2500303-001	Anonymous	Dibromoethane, 1,2-	106-93-4	E611D	74.6 µg/L	100 µg/L	74.6	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	94.1 µg/L	100 µg/L	94.1	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	96.1 µg/L	100 µg/L	96.1	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	96.7 µg/L	100 µg/L	96.7	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	72.2 µg/L	100 µg/L	72.2	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	88.9 µg/L	100 µg/L	88.9	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	84.0 µg/L	100 µg/L	84.0	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	90.6 µg/L	100 µg/L	90.6	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	89.0 µg/L	100 µg/L	89.0	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	91.6 µg/L	100 µg/L	91.6	60.0	140	----
		Dichloromethane	75-09-2	E611D	83.4 µg/L	100 µg/L	83.4	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	86.6 µg/L	100 µg/L	86.6	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	82.4 µg/L	100 µg/L	82.4	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	82.8 µg/L	100 µg/L	82.8	60.0	140	----
		Ethylbenzene	100-41-4	E611D	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Hexane, n-	110-54-3	E611D	90.3 µg/L	100 µg/L	90.3	60.0	140	----
		Hexanone, 2-	591-78-6	E611D	70 µg/L	100 µg/L	69.8	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	89 µg/L	100 µg/L	89.1	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	70 µg/L	100 µg/L	69.6	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	92.1 µg/L	100 µg/L	92.1	60.0	140	----
		Styrene	100-42-5	E611D	87.5 µg/L	100 µg/L	87.5	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	85.1 µg/L	100 µg/L	85.1	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	95.8 µg/L	100 µg/L	95.8	60.0	140	----
		Toluene	108-88-3	E611D	95.7 µg/L	100 µg/L	95.7	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	87.8 µg/L	100 µg/L	87.8	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	78.0 µg/L	100 µg/L	78.0	60.0	140	----
		Trichloroethylene	79-01-6	E611D	91.8 µg/L	100 µg/L	91.8	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	87.3 µg/L	100 µg/L	87.3	60.0	140	----
		Vinyl chloride	75-01-4	E611D	82.8 µg/L	100 µg/L	82.8	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	191 µg/L	200 µg/L	95.6	60.0	140	----
		Xylene, o-	95-47-6	E611D	95.8 µg/L	100 µg/L	95.8	60.0	140	----
Hydrocarbons (QCLot: 2199634)										
BF2500303-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1780 µg/L	2000 µg/L	88.8	60.0	140	----

Baffinland

Chain of Custody: 25 08 29_Landfill_Seep_Investigation

Client Info	Project Info	Laboratory Info	
Baffinland Iron Mine Corporation 2275 Upper Middle Rd E, Suite 300 Oakville, ON, L6H 0C3 **Phone:** 647-253-0596 x6016/6039/4131 **Email:** environment.coordinators@baffinland.com; environment.superintendents@baffinland.com	**Job Reference (Project):** Landfill_Seep_Investigation **Task:** , Landfill_Explore_MS_250829 **Site:** MS	**Lab Name:** ALS Waterloo **Contact:** Rick Hawthorne **Phone:** 519.886.6910 **Email:** Rick.Hawthorne@ALSGlobal.com	**Address:** Unit 1 - 60 Northland Road Waterloo, ON,N2V 2B8
Email Invoice: ap@baffinland.com; environment.superintendents@baffinland.com **Email EDD:** bim.equissa@baffinland.com **Email COA:** environment.labresults@baffinland.com	**Turn around Time:** Routine (R) **Sampler 1:** LG **Sampler 2:** AG **Sampler 3:**	**ALS Quote #:** WT2020BIMC1000001 **ALS PO #:** 4500156571	**Lab**

Environmental Division
Baffin Island
Work Order Reference
BF2500307

Telephone

Sample Details				Field Data			Ana											
Sample ID (sys_sample_code)	Location (sys_loc_code)	Sample Date and Time	Matrix	pH, Field (pH units)	Temperature, Field (deg C)	Total # of Containers	ALS_GW_Landfill											
MS-MRY-13B_2025-08-29	MS-MRY-13B	8/29/2025 3:05:00 PM	WS	8.1	3.9	10	X											
MS-MRY-13C_2025-08-29	MS-MRY-13C	8/29/2025 3:30:00 PM	WS	7.74	1.8	10	X											
LF-DS-SEEP-01_2025-08-29	LF-DS-SEEP-01	8/29/2025 4:10:00 PM	WS	7.98	2	10	X											
LF-US-POND-01_2025-08-29	LF-US-POND-01	8/29/2025 4:55:00 PM	WS	7.75	1.5	10	X											

Relinquished by:	Bradley Rasmussen	**Date:**	
Additional Comments			
Initial Shipment Reception (lab use only)		**Final Shipment Reception** (lab use only)	
Received by:		**Received by:**	
Date/Time:		**Date/Time:**	4 Sept 25 9:00

JW-003 GC-740 1741
MM-428 N-181
OR-27

9.3°C

Chain of Custody: 25 08 29_Landfill_Seep_Investigation

Client Info	Project Info	Laboratory Info	
Baffinland Iron Mine Corporation 2275 Upper Middle Rd E, Suite 300 Oakville, ON, L6H 0C3 **Phone:** 647-253-0596 x6016/6039/4131 **Email:** environment.coordinators@baffinland.com; environment.superintendents@baffinland.com	**Job Reference (Project):** Landfill_Seep_Investigation **Task:** , Landfill_Explore_MS_250829 **Site:** MS	**Lab Name:** ALS Waterloo **Contact:** Rick Hawthorne **Phone:** 519.886.6910 **Email:** Rick.Hawthorne@ALSGlobal.com	**Address:** Unit 1 - 60 Northland Road Waterloo, ON,N2V 2B8
Email Invoice: ap@baffinland.com; environment.superintendents@baffinland.com **Email EDD:** bim.equissa@baffinland.com **Email COA:** environment.labresults@baffinland.com	**Turn around Time:** Routine (R) **Sampler 1:** LG **Sampler 2:** AG **Sampler 3:**	**ALS Quote #:** WT2020BIMC1000001 **ALS PO #:** 4500156571	**Lab Work Order #** (lab use only):

Sample Details				Field Data			Analysis Requested											
Sample ID (sys_sample_code)	**Location (sys_loc_code)**	**Sample Date and Time**	**Matrix**	**pH, Field (pH units)**	**Temperature, Field (deg C)**	**Total # of Containers**	**ALS_GW_Landfill**											
MS-MRY-13B_2025-08-29	**MS-MRY-13B**	**8/29/2025 3:05:00 PM**	**WS**	**8.1**	**3.9**	**10**	**X**											
MS-MRY-13C_2025-08-29	**MS-MRY-13C**	**8/29/2025 3:30:00 PM**	**WS**	**7.74**	**1.8**	**10**	**X**											
LF-DS-SEEP-01_2025-08-29	**LF-DS-SEEP-01**	**8/29/2025 4:10:00 PM**	**WS**	**7.98**	**2**	**10**	**X**											
LF-US-POND-01_2025-08-29	**LF-US-POND-01**	**8/29/2025 4:55:00 PM**	**WS**	**7.75**	**1.5**	**10**	**X**											

Relinquished by:	Bradley Rasmussen	**Date:**	
Additional Comments			
Initial Shipment Reception (lab use only)		**Final Shipment Reception** (lab use only)	
Received by:		**Received by:**	
Date/Time:		**Date/Time:**	

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	:	**BF2500308**			
Client	:	**Baffinland Iron Mines Corporation**	Laboratory	:	ALS Environmental - Baffin Island
Contact	:	Environmental Lab Results	Account Manager	:	Rick Hawthorne
Address	:	360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	:	Mary River, Qikqtani Region Baffin Island NU Canada
Telephone	:	----	Telephone	:	
Project	:	HWB Groundwater	Date Samples Received	:	01-Sep-2025 17:25
PO	:	4500156571	Date Analysis Commenced	:	02-Sep-2025
C-O-C number	:	25 08 30_MS_HWB_GW	Issue Date	:	11-Sep-2025 09:45
Sampler	:	AG, JJ, LG			
Site	:	MS			
Quote number	:	2024-2025 Scope of Work			
No. of samples received	:	11			
No. of samples analysed	:	11			

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.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon		Organics, Waterloo, Ontario
Cedrick Velasco		Inorganics, Baffin Island, Nunavut
Danielle Gravel		Organics, Waterloo, Ontario
David Tremblett		VOC, Waterloo, Ontario
Jeremy Gingras		Organics, Waterloo, Ontario
Rachel Cameron		Organics, Waterloo, Ontario
Walt Kippenhuck		Inorganics, Waterloo, Ontario
Walt Kippenhuck		Metals, Waterloo, Ontario

No Breaches Found

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).

Unit	*Description*
-	no units
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

>: 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.

Workorder Comments

E641 BF2500308-001 RRR: Detection limit raised due to high analyte recovery in the method blank.
E641 BF2500308-003 RRR: Detection limit raised due to high analyte recovery in the method blank.

Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.
TKNI	TKN result may be biased low due to Nitrate interference. Nitrate -N is > 10x TKN.

Analytical Results Evaluation

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----
				Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20	30-Aug-2025 13:45	30-Aug-2025 13:45
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
					BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005	BF2500308-006	BF2500308-007
					Result	Result	Result	Result	Result	Result	Result
Physical Tests											
Conductivity	----	E100/WT	µS/cm		3030	582	952	503	572	703	725
pH	----	E108/BF	pH units		7.25	7.38	6.94	7.38	7.25	7.08	7.02
Solids, total dissolved [TDS]	----	E162/BF	mg/L		2000	314	552	295	329	450	435
Solids, total suspended [TSS]	----	E160-L/BF	mg/L		4.2	3.4	14.2	10.7	<1.0	1.3	1.1
Turbidity	----	E121/BF	NTU		1.92	5.33	37.1	6.60	1.65	3.98	2.84
Alkalinity, total (as CaCO3)	----	E290/WT	mg/L		214	217	518	208	278	193	198
Anions and Nutrients											
Ammonia, total (as N)	7664-41-7	E298/WT	mg/L		0.264	0.940	1.55	0.319	0.959	0.319	0.304
Bromide	24959-67-9	E235.Br/WT	mg/L		6.24 DLDS	<0.10	<0.20 DLDS	<0.10	<0.10	<0.10	<0.10
Chloride	16887-00-6	E235.Cl/WT	mg/L		854 DLDS	39.0	18.9 DLDS	21.4	15.9	97.2	100
Fluoride	16984-48-8	E235.F/WT	mg/L		<0.100 DLDS	0.066	0.045 DLDS	<0.020	0.062	0.226	0.136
Kjeldahl nitrogen, total [TKN]	----	E318/WT	mg/L		0.542	1.61	2.24	0.975	1.69	0.686	0.682
Nitrate (as N)	14797-55-8	E235.NO3/WT	mg/L		0.597 DLDS	3.78	<0.040 DLDS	3.31	0.181	0.162	0.176
Nitrite (as N)	14797-65-0	E235.NO2/WT	mg/L		<0.050 DLDS	0.064	<0.020 DLDS	0.184	<0.010	0.017	0.019
Phosphorus, total	7723-14-0	E372-U/WT	mg/L		0.0096	0.0226	0.0974	0.0174	0.0412	0.0156	0.0153
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	mg/L		21.8 DLDS	19.9	8.56 DLDS	18.3	12.4	11.0	12.2
Dissolved Metals											
Aluminum, dissolved	7429-90-5	E421/WT	mg/L		<0.0100 DLHC	0.0049	0.0337 DLHC	0.0029	<0.0100 DLM	0.0098	0.0114
Antimony, dissolved	7440-36-0	E421/WT	mg/L		<0.00100 DLHC	<0.00010	<0.00100 DLHC	<0.00010	<0.00100 DLM	<0.00010	<0.00010

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----
				Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20	30-Aug-2025 13:45	30-Aug-2025 13:45
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
					BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005	BF2500308-006	BF2500308-007
					Result	Result	Result	Result	Result	Result	Result
Dissolved Metals											
Arsenic, dissolved	7440-38-2	E421/WT	mg/L		<0.00100 DLHC	0.00028	0.00264 DLHC	0.00028	0.00240 DLM	0.00051	0.00060
Barium, dissolved	7440-39-3	E421/WT	mg/L		0.100 DLHC	0.0545	0.0859 DLHC	0.0395	0.0500 DLM	0.0880	0.0749
Beryllium, dissolved	7440-41-7	E421/WT	mg/L		<0.000200 DLHC	<0.000020	<0.000200 DLHC	<0.000020	<0.000200 DLM	<0.000020	<0.000020
Bismuth, dissolved	7440-69-9	E421/WT	mg/L		<0.000500 DLHC	<0.000050	<0.000500 DLHC	<0.000050	<0.000500 DLM	<0.000050	<0.000050
Boron, dissolved	7440-42-8	E421/WT	mg/L		<0.100 DLHC	0.030	<0.100 DLHC	0.024	<0.100 DLM	0.025	0.020
Cadmium, dissolved	7440-43-9	E421/WT	mg/L		0.0000670 DLHC	0.0000193	<0.0000500 DLHC	0.0000134	<0.0000500 DLM	0.0000163	0.0000119
Calcium, dissolved	7440-70-2	E421/WT	mg/L		197 DLHC	40.9	72.1 DLHC	33.4	36.1 DLM	70.5	58.8
Cesium, dissolved	7440-46-2	E421/WT	mg/L		<0.000100 DLHC	0.000014	<0.000100 DLHC	0.000014	<0.000100 DLM	<0.000010	<0.000010
Chromium, dissolved	7440-47-3	E421/WT	mg/L		<0.00500 DLHC	0.00084	0.00531 DLHC	0.00091	<0.00500 DLM	0.00150	0.00160
Cobalt, dissolved	7440-48-4	E421/WT	mg/L		<0.00100 DLHC	0.00086	0.00806 DLHC	0.00069	0.00246 DLM	0.00472	0.00442
Copper, dissolved	7440-50-8	E421/WT	mg/L		0.00274 DLHC	0.00409	<0.00200 DLHC	0.00351	<0.00200 DLM	0.00222	0.00213
Iron, dissolved	7439-89-6	E421/WT	mg/L		<0.100 DLHC	0.025	8.44 DLHC	<0.010	0.102 DLM	1.16	1.53
Lead, dissolved	7439-92-1	E421/WT	mg/L		<0.000500 DLHC	0.000078	0.000597 DLHC	0.000072	0.000560 DLM	<0.000050	<0.000050
Lithium, dissolved	7439-93-2	E421/WT	mg/L		0.0123 DLHC	0.0052	<0.0100 DLHC	0.0045	<0.0100 DLM	0.0260	0.0203
Magnesium, dissolved	7439-95-4	E421/WT	mg/L		217 DLHC	45.2	79.2 DLHC	43.9	49.8 DLM	49.8	45.1
Manganese, dissolved	7439-96-5	E421/WT	mg/L		0.216 DLHC	0.209	3.67 DLHC	0.0802	1.42 DLM	1.48	1.43
Mercury, dissolved	7439-97-6	E509/WT	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, dissolved	7439-98-7	E421/WT	mg/L		0.000540 DLHC	0.00144	0.00170 DLHC	0.000529	0.00905 DLM	0.00112	0.00123
Nickel, dissolved	7440-02-0	E421/WT	mg/L		0.0215 DLHC	0.0213	0.0366 DLHC	0.0178	0.0222 DLM	0.0466	0.0422

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----
				Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20	30-Aug-2025 13:45	30-Aug-2025 13:45
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
					BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005	BF2500308-006	BF2500308-007
					Result	Result	Result	Result	Result	Result	Result
Dissolved Metals											
Phosphorus, dissolved	7723-14-0	E421/WT	mg/L		<0.500 DLHC	<0.050	<0.500 DLHC	<0.050	<0.500 DLM	<0.050	<0.050
Potassium, dissolved	7440-09-7	E421/WT	mg/L		9.82 DLHC	2.25	5.62 DLHC	1.49	4.40 DLM	4.37	3.86
Rubidium, dissolved	7440-17-7	E421/WT	mg/L		0.0132 DLHC	0.00480	0.00685 DLHC	0.00508	0.00329 DLM	0.00581	0.00537
Selenium, dissolved	7782-49-2	E421/WT	mg/L		<0.000500 DLHC	0.000093	<0.000500 DLHC	0.000100	<0.000500 DLM	0.000069	0.000062
Silicon, dissolved	7440-21-3	E421/WT	mg/L		5.74 DLHC	5.26	11.3 DLHC	5.04	5.29 DLM	7.00	6.93
Silver, dissolved	7440-22-4	E421/WT	mg/L		<0.000100 DLHC	<0.000010	<0.000100 DLHC	<0.000010	<0.000100 DLM	<0.000010	0.000010
Sodium, dissolved	7440-23-5	E421/WT	mg/L		15.7 DLHC	7.47	17.8 DLHC	4.60	16.1 DLM	8.64	7.09
Strontium, dissolved	7440-24-6	E421/WT	mg/L		0.349 DLHC	0.105	0.0531 DLHC	0.116	0.0281 DLM	0.554	0.450
Sulfur, dissolved	7704-34-9	E421/WT	mg/L		8.75 DLHC	7.64	<5.00 DLHC	6.92	5.12 DLM	5.66	4.81
Tellurium, dissolved	13494-80-9	E421/WT	mg/L		<0.00200 DLHC	<0.00020	<0.00200 DLHC	<0.00020	<0.00200 DLM	<0.00020	<0.00020
Thallium, dissolved	7440-28-0	E421/WT	mg/L		<0.000100 DLHC	0.000014	<0.000100 DLHC	0.000016	<0.000100 DLM	0.000018	0.000014
Thorium, dissolved	7440-29-1	E421/WT	mg/L		<0.00100 DLHC	<0.00010	<0.00100 DLHC	<0.00010	<0.00100 DLM	<0.00010	0.00010
Tin, dissolved	7440-31-5	E421/WT	mg/L		<0.00100 DLHC	<0.00010	<0.00100 DLHC	<0.00010	<0.00100 DLM	<0.00010	<0.00010
Titanium, dissolved	7440-32-6	E421/WT	mg/L		<0.00300 DLHC	<0.00030	<0.00300 DLHC	<0.00030	<0.00300 DLM	<0.00030	<0.00030
Tungsten, dissolved	7440-33-7	E421/WT	mg/L		<0.00100 DLHC	<0.00010	<0.00100 DLHC	<0.00010	<0.00100 DLM	<0.00010	<0.00010
Uranium, dissolved	7440-61-1	E421/WT	mg/L		0.00585 DLHC	0.00184	0.00244 DLHC	0.00115	0.00458 DLM	0.00323	0.00269
Vanadium, dissolved	7440-62-2	E421/WT	mg/L		<0.00500 DLHC	<0.00050	<0.00500 DLHC	<0.00050	<0.00500 DLM	<0.00050	<0.00050
Zinc, dissolved	7440-66-6	E421/WT	mg/L		<0.0100 DLHC	0.0013	<0.0100 DLHC	<0.0010	<0.0100 DLM	<0.0010	<0.0010
Zirconium, dissolved	7440-67-7	E421/WT	mg/L		<0.00300 DLHC	0.00054	<0.00300 DLHC	0.00057	<0.00300 DLM	0.00092	0.00089

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----
				Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20	30-Aug-2025 13:45	30-Aug-2025 13:45
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
					BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005	BF2500308-006	BF2500308-007
					Result	Result	Result	Result	Result	Result	Result
Dissolved Metals											
Dissolved mercury filtration location	----	EP509/WT	-		Field	Field	Field	Field	Field	Field	Field
Dissolved metals filtration location	----	EP421/WT	-		Field	Field	Field	Field	Field	Field	Field
Aggregate Organics											
Oil & grease (gravimetric)	----	E567/WT	mg/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Volatile Organic Compounds											
Acetone	67-64-1	E611D/WT	µg/L		<20	<20	35	<20	<20	<20	<20
Benzene	71-43-2	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.51
Bromodichloromethane	75-27-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	75-25-2	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	74-83-9	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
BTEX, total	----	E611D/WT	µg/L		<1.0	3.5	48.4	<1.0	<1.0	85.3	73.2
Carbon disulfide	75-15-0	E611D/WT	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	56-23-5	E611D/WT	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	108-90-7	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	75-00-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	74-87-3	E611D/WT	µg/L		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	124-48-1	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromoethane, 1,2-	106-93-4	E611D/WT	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----
				Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20	30-Aug-2025 13:45	30-Aug-2025 13:45
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
					BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005	BF2500308-006	BF2500308-007
					Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds											
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	75-71-8	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1-	75-34-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,2-	107-06-2	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, 1,1-	75-35-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	3.22	<0.50	<0.50
Dichloroethylene, cis+trans-1,2-	540-59-0	E611D/WT	µg/L		<0.71	<0.71	<0.71	<0.71	3.22	<0.71	<0.71
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	75-09-2	E611D/WT	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloropropane, 1,2-	78-87-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	µg/L		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	µg/L		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Ethylbenzene	100-41-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	6.05	5.45
Hexane, n-	110-54-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexanone, 2-	591-78-6	E611D/WT	µg/L		<20	<20	<20	<20	<20	<20	<20
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	µg/L		<20	<20	<20	<20	<20	<20	<20
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	µg/L		<20	<20	<20	<20	<20	<20	<20

Matrix: Water

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				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
					BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005	BF2500308-006	BF2500308-007
					Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds											
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	100-42-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	127-18-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	0.69	0.57	<0.50	<0.50
Toluene	108-88-3	E611D/WT	µg/L		<0.50	<0.50	48.4	<0.50	<0.50	0.58	<0.50
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	79-01-6	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	75-69-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes [THMs], total	----	E611D/WT	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	E611D/WT	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m+p-	179601-23-1	E611D/WT	µg/L		<0.40	<0.40	<0.40	<0.40	<0.40	21.9	16.7
Xylene, o-	95-47-6	E611D/WT	µg/L		<0.30	3.52	<0.30	<0.30	0.86	56.3	50.5
Xylenes, total	1330-20-7	E611D/WT	µg/L		<0.50	3.52	<0.50	<0.50	0.86	78.2	67.2
Hydrocarbons											
F1 (C6-C10)	----	E581.F1-L/WT	µg/L		<25	<25	31	<25	<25	157	152
F2 (C10-C16)	----	E601/WT	µg/L		<100	140	<100	100	860	440	400
F3 (C16-C34)	----	E601/WT	µg/L		<250	<250	<250	<250	560	<250	<250
F4 (C34-C50)	----	E601/WT	µg/L		<250	<250	<250	<250	<250	<250	<250

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----
				Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20	30-Aug-2025 13:45	30-Aug-2025 13:45
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
					BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005	BF2500308-006	BF2500308-007
					Result	Result	Result	Result	Result	Result	Result
Hydrocarbons											
F1-BTEX	----	EC580/WT	µg/L		<25	<25	<25	<25	<25	72	79
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	µg/L		<370	<370	<370	<370	1420	600	550
Hydrocarbons Surrogates											
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WT	%		91.0	97.4	92.6	95.9	101	100	100
Dichlorotoluene, 3,4-	95-75-0	E581.F1-L/WT	%		71.0	71.4	68.0	81.0	73.3	69.1	76.7
Volatile Organic Compounds Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611D/WT	%		88.7	88.5	88.5	88.9	88.8	93.7	94.3
Difluorobenzene, 1,4-	540-36-3	E611D/WT	%		97.6	97.4	97.0	97.2	97.4	97.5	97.2
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	83-32-9	E641A-L/WT	µg/L		<0.010	<0.053 DLM	<0.010	<0.059 DLM	<0.281 DLM	<0.089 DLM	<0.084 DLM
Acenaphthylene	208-96-8	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.084 DLM	<0.025 DLM	<0.024 DLM
Acridine	260-94-6	E641A-L/WT	µg/L		<0.010	<0.033 DLM	<0.010	<0.035 DLM	<0.054 DLM	<0.013 DLM	<0.013 DLM
Anthracene	120-12-7	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM	<0.010	<0.010
Benz(a)anthracene	56-55-3	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM	<0.010	<0.010
Benzo(a)pyrene	50-32-8	E641A-L/WT	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	n/a	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b+j+k)fluoranthene	n/a	E641A-L/WT	µg/L		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Benzo(g,h,i)perylene	191-24-2	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	207-08-9	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----
				Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20	30-Aug-2025 13:45	30-Aug-2025 13:45
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
					BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005	BF2500308-006	BF2500308-007
					Result	Result	Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons											
Chrysene	218-01-9	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Dibenz(a,h)anthracene	53-70-3	E641A-L/WT	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	206-44-0	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM	<0.010	<0.010
Fluorene	86-73-7	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.011 DLM	<0.042 DLM	0.132	0.122
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methylnaphthalene, 1-	90-12-0	E641A-L/WT	µg/L		0.146	0.178	<0.010	0.051	0.883	7.44	6.35
Methylnaphthalene, 1+2-	----	E641A-L/WT	µg/L		0.170	0.324	<0.015	0.088	1.30	17.1	14.1
Methylnaphthalene, 2-	91-57-6	E641A-L/WT	µg/L		0.024	0.146	<0.010	0.037	0.422	9.63	7.76
Naphthalene	91-20-3	E641A-L/WT	µg/L		<0.010	<0.114 DLM	<0.010	<0.011 DLM	<0.191 DLM	13.6	13.0
Perylene	198-55-0	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM	0.025	0.029
Pyrene	129-00-0	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM	<0.010	<0.010
Quinoline	91-22-5	E641A-L/WT	µg/L		<0.036 DLM, RRR	<0.104 DLM	<0.019 DLM, RRR	<0.435 DLM	<2.65 DLM	<0.838 DLM	<0.767 DLM
B(a)P total potency equivalents [B(a)P TPE]	----	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons Surrogates											
Chrysene-d12	1719-03-5	E641A-L/WT	%		99.9	109	102	102	96.4	101	101
Naphthalene-d8	1146-65-2	E641A-L/WT	%		105	108	108	112	106	103	102
Phenanthrene-d10	1517-22-2	E641A-L/WT	%		100	111	107	112	86.8	92.3	95.8

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

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Physical Tests											
Conductivity	----	E100/WT	µS/cm		498	671	679	1880	----	----	----
pH	----	E108/BF	pH units		7.47	7.07	7.61	6.90	----	----	----
Solids, total dissolved [TDS]	----	E162/BF	mg/L		279	404	404	1230	----	----	----
Solids, total suspended [TSS]	----	E160-L/BF	mg/L		<1.0	5.5	24.5	6.0	----	----	----
Turbidity	----	E121/BF	NTU		1.08	3.55	17.5	24.6	----	----	----
Alkalinity, total (as CaCO3)	----	E290/WT	mg/L		242	278	174	197	----	----	----
Anions and Nutrients											
Ammonia, total (as N)	7664-41-7	E298/WT	mg/L		0.211	0.380	<0.0050	0.410	----	----	----
Bromide	24959-67-9	E235.Br/WT	mg/L		<0.10	<0.10	0.19	4.68 DLDS	----	----	----
Chloride	16887-00-6	E235.Cl/WT	mg/L		4.44	40.5	78.4	484 DLDS	----	----	----
Fluoride	16984-48-8	E235.F/WT	mg/L		0.092	0.085	0.025	<0.100 DLDS	----	----	----
Kjeldahl nitrogen, total [TKN]	----	E318/WT	mg/L		0.997	0.866	0.315 TKNI	0.782	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	mg/L		3.36	<0.020	4.79	<0.100 DLDS	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	mg/L		0.487	<0.010	<0.010	<0.050 DLDS	----	----	----
Phosphorus, total	7723-14-0	E372-U/WT	mg/L		0.0166	0.0282	0.0083	0.0269	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	mg/L		8.85	10.9	29.3	9.42 DLDS	----	----	----
Dissolved Metals											
Aluminum, dissolved	7429-90-5	E421/WT	mg/L		0.0032	0.0140	0.0013	<0.0100 DLHC	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	mg/L		<0.00010	<0.00010	<0.00010	<0.00100 DLHC	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Dissolved Metals											
Arsenic, dissolved	7440-38-2	E421/WT	mg/L		0.00294	0.00111	<0.00010	0.00198 DLHC	----	----	----
Barium, dissolved	7440-39-3	E421/WT	mg/L		0.0301	0.0811	0.0440	0.207 DLHC	----	----	----
Beryllium, dissolved	7440-41-7	E421/WT	mg/L		<0.000020	<0.000020	<0.000020	<0.000200 DLHC	----	----	----
Bismuth, dissolved	7440-69-9	E421/WT	mg/L		<0.000050	<0.000050	<0.000050	<0.000500 DLHC	----	----	----
Boron, dissolved	7440-42-8	E421/WT	mg/L		<0.010	0.043	0.019	<0.100 DLHC	----	----	----
Cadmium, dissolved	7440-43-9	E421/WT	mg/L		0.0000149	0.0000126	0.0000054	<0.0000500 DLHC	----	----	----
Calcium, dissolved	7440-70-2	E421/WT	mg/L		29.3	72.9	63.0	177 DLHC	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	mg/L		0.000010	<0.000010	<0.000010	<0.000100 DLHC	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	mg/L		0.00070	0.00228	0.00084	<0.00500 DLHC	----	----	----
Cobalt, dissolved	7440-48-4	E421/WT	mg/L		0.00147	0.00372	<0.00010	0.0121 DLHC	----	----	----
Copper, dissolved	7440-50-8	E421/WT	mg/L		0.00168	0.00147	0.00228	<0.00200 DLHC	----	----	----
Iron, dissolved	7439-89-6	E421/WT	mg/L		<0.010	1.01	<0.010	2.51 DLHC	----	----	----
Lead, dissolved	7439-92-1	E421/WT	mg/L		0.000059	0.000494	<0.000050	<0.000500 DLHC	----	----	----
Lithium, dissolved	7439-93-2	E421/WT	mg/L		0.0026	0.0182	0.0075	0.0663 DLHC	----	----	----
Magnesium, dissolved	7439-95-4	E421/WT	mg/L		43.5	35.8	32.2	99.9 DLHC	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	mg/L		0.473	1.60	0.00259	4.58 DLHC	----	----	----
Mercury, dissolved	7439-97-6	E509/WT	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	----	----
Molybdenum, dissolved	7439-98-7	E421/WT	mg/L		0.00148	0.00149	0.000741	0.00108 DLHC	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	mg/L		0.0202	0.0372	0.00508	0.0443 DLHC	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Dissolved Metals											
Phosphorus, dissolved	7723-14-0	E421/WT	mg/L		<0.050	<0.050	<0.050	<0.500 DLHC	----	----	----
Potassium, dissolved	7440-09-7	E421/WT	mg/L		2.86	6.35	3.04	5.96 DLHC	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	mg/L		0.00440	0.00383	0.00723	0.0140 DLHC	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	mg/L		0.000069	0.000073	0.000076	<0.000500 DLHC	----	----	----
Silicon, dissolved	7440-21-3	E421/WT	mg/L		5.30	8.11	4.26	7.41 DLHC	----	----	----
Silver, dissolved	7440-22-4	E421/WT	mg/L		<0.000010	<0.000010	<0.000010	<0.000100 DLHC	----	----	----
Sodium, dissolved	7440-23-5	E421/WT	mg/L		2.65	6.83	16.2	11.7 DLHC	----	----	----
Strontium, dissolved	7440-24-6	E421/WT	mg/L		0.0268	0.818	0.166	0.580 DLHC	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	mg/L		3.23	3.85	10.9	<5.00 DLHC	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	mg/L		<0.00020	<0.00020	<0.00020	<0.00200 DLHC	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	mg/L		0.000030	<0.000010	0.000015	<0.000100 DLHC	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	mg/L		<0.00010	<0.00010	<0.00010	<0.00100 DLHC	----	----	----
Tin, dissolved	7440-31-5	E421/WT	mg/L		<0.00010	<0.00010	<0.00010	<0.00100 DLHC	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	mg/L		<0.00030	0.00036	<0.00030	<0.00300 DLHC	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	mg/L		<0.00010	<0.00010	<0.00010	<0.00100 DLHC	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	mg/L		0.00301	0.00458	0.00285	0.00464 DLHC	----	----	----
Vanadium, dissolved	7440-62-2	E421/WT	mg/L		<0.00050	0.00097	<0.00050	<0.00500 DLHC	----	----	----
Zinc, dissolved	7440-66-6	E421/WT	mg/L		<0.0010	<0.0010	<0.0010	<0.0100 DLHC	----	----	----
Zirconium, dissolved	7440-67-7	E421/WT	mg/L		0.00047	0.00157	0.00046	<0.00300 DLHC	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Dissolved Metals											
Dissolved mercury filtration location	----	EP509/WT	-		Field	Field	Field	Field	----	----	----
Dissolved metals filtration location	----	EP421/WT	-		Field	Field	Field	Field	----	----	----
Aggregate Organics											
Oil & grease (gravimetric)	----	E567/WT	mg/L		<5.0	<5.0	<5.0	<5.0	----	----	----
Volatile Organic Compounds											
Acetone	67-64-1	E611D/WT	µg/L		<20	<20	<20	<20	----	----	----
Benzene	71-43-2	E611D/WT	µg/L		<0.50	2.94	<0.50	0.82	----	----	----
Bromodichloromethane	75-27-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Bromoform	75-25-2	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Bromomethane	74-83-9	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
BTEX, total	----	E611D/WT	µg/L		3.0	80.9	<1.0	4.3	----	----	----
Carbon disulfide	75-15-0	E611D/WT	µg/L		<1.0	<1.0	<1.0	<1.0	----	----	----
Carbon tetrachloride	56-23-5	E611D/WT	µg/L		<0.20	<0.20	<0.20	<0.20	----	----	----
Chlorobenzene	108-90-7	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Chloroethane	75-00-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Chloroform	67-66-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Chloromethane	74-87-3	E611D/WT	µg/L		<2.0	<2.0	<2.0	<2.0	----	----	----
Dibromochloromethane	124-48-1	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	µg/L		<0.20	<0.20	<0.20	<0.20	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Volatile Organic Compounds											
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichlorodifluoromethane	75-71-8	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichloroethylene, cis+trans-1,2-	540-59-0	E611D/WT	µg/L		<0.71	<0.71	<0.71	<0.71	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichloromethane	75-09-2	E611D/WT	µg/L		<1.0	<1.0	<1.0	<1.0	----	----	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	µg/L		<0.30	<0.30	<0.30	<0.30	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	µg/L		<0.5	<0.5	<0.5	<0.5	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	µg/L		<0.30	<0.30	<0.30	<0.30	----	----	----
Ethylbenzene	100-41-4	E611D/WT	µg/L		<0.50	4.40	<0.50	<0.50	----	----	----
Hexane, n-	110-54-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Hexanone, 2-	591-78-6	E611D/WT	µg/L		<20	<20	<20	<20	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	µg/L		<20	<20	<20	<20	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Volatile Organic Compounds											
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	µg/L		<20	<20	<20	<20	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Styrene	100-42-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Toluene	108-88-3	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Trichloroethylene	79-01-6	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Trichlorofluoromethane	75-69-4	E611D/WT	µg/L		<0.50	<0.50	<0.50	<0.50	----	----	----
Trihalomethanes [THMs], total	----	E611D/WT	µg/L		<1.0	<1.0	<1.0	<1.0	----	----	----
Vinyl chloride	75-01-4	E611D/WT	µg/L		<0.20	<0.20	<0.20	<0.20	----	----	----
Xylene, m+p-	179601-23-1	E611D/WT	µg/L		<0.40	18.1	<0.40	<0.40	----	----	----
Xylene, o-	95-47-6	E611D/WT	µg/L		2.96	55.5	<0.30	3.45	----	----	----
Xylenes, total	1330-20-7	E611D/WT	µg/L		2.96	73.6	<0.50	3.45	----	----	----
Hydrocarbons											
F1 (C6-C10)	----	E581.F1-L/WT	µg/L		<25	408	<25	26	----	----	----
F2 (C10-C16)	----	E601/WT	µg/L		140	810	<100	210	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Hydrocarbons											
F3 (C16-C34)	----	E601/WT	µg/L		<250	<250	<250	<250	----	----	----
F4 (C34-C50)	----	E601/WT	µg/L		<250	<250	<250	<250	----	----	----
F1-BTEX	----	EC580/WT	µg/L		<25	327	<25	<25	----	----	----
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	µg/L		<370	1220	<370	<370	----	----	----
Hydrocarbons Surrogates											
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WT	%		93.8	101	93.5	97.5	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1-L/WT	%		77.8	73.0	73.9	85.1	----	----	----
Volatile Organic Compounds Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611D/WT	%		90.3	96.8	89.7	93.1	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	%		96.7	97.4	96.8	98.0	----	----	----
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	83-32-9	E641A-L/WT	µg/L		<0.010	<0.112 DLM	<0.010	<0.020 DLM	----	----	----
Acenaphthylene	208-96-8	E641A-L/WT	µg/L		<0.010	<0.035 DLM	<0.010	<0.010	----	----	----
Acridine	260-94-6	E641A-L/WT	µg/L		<0.010	<0.015 DLM	<0.010	<0.012 DLM	----	----	----
Anthracene	120-12-7	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Benz(a)anthracene	56-55-3	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Benzo(a)pyrene	50-32-8	E641A-L/WT	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A-L/WT	µg/L		<0.015	<0.015	<0.015	<0.015	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons											
Benzo(g,h,i)perylene	191-24-2	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Chrysene	218-01-9	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A-L/WT	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	----	----	----
Fluoranthene	206-44-0	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Fluorene	86-73-7	E641A-L/WT	µg/L		<0.010	0.169	<0.010	<0.010	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A-L/WT	µg/L		0.231	15.5	<0.010	2.92	----	----	----
Methylnaphthalene, 1+2-	----	E641A-L/WT	µg/L		0.411	40.5	<0.015	5.90	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A-L/WT	µg/L		0.180	25.0	<0.010	2.98	----	----	----
Naphthalene	91-20-3	E641A-L/WT	µg/L		<0.412 DLM	36.8	<0.010	2.69	----	----	----
Perylene	198-55-0	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Phenanthrene	85-01-8	E641A-L/WT	µg/L		<0.010	0.010	<0.010	<0.010	----	----	----
Pyrene	129-00-0	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Quinoline	91-22-5	E641A-L/WT	µg/L		<0.081 DLM	<2.11 DLM	<0.011 DLM	<1.09 DLM	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A-L/WT	µg/L		<0.010	<0.010	<0.010	<0.010	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates											
Chrysene-d12	1719-03-5	E641A-L/WT	%		92.9	98.3	92.4	101	----	----	----
Naphthalene-d8	1146-65-2	E641A-L/WT	%		113	104	111	106	----	----	----

Matrix: Water

Analyte	CAS Number	Method/Lab	Unit	Client sample ID	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----	HWB-KP22-05_2025-08-30 ----	----	----	----
				Client sampling date / time	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45	30-Aug-2025 17:00	----	----	----
				Sub-Matrix	Water	Water	Water	Water	----	----	----
					BF2500308-008	BF2500308-009	BF2500308-010	BF2500308-011	----	----	----
					Result	Result	Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates											
Phenanthrene-d10	1517-22-2	E641A-L/WT	%		94.0	89.6	105	102	----	----	----

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

Summary of Guideline Limits

CERTIFICATE OF ANALYSIS

Work Order	: **BF2500308**		
Client	: **Baffinland Iron Mines Corporation**	Laboratory	: ALS Environmental - Baffin Island
Contact	: Environmental Lab Results	Account Manager	: Rick Hawthorne
Address	: 360 Oakville Place Dr Suite 300 Oakville Ontario Canada L6H 6K8	Address	: Mary River, Qikqtani Region Baffin Island NU Canada
Telephone	: ----	E-mail	: Rick.Hawthorne@ALSGlobal.com
Project	: HWB Groundwater	Telephone	:
PO	: 4500156571	Date Samples Received	: 01-Sep-2025 17:25
C-O-C number	: 25 08 30_MS_HWB_GW	Date Analysis Commenced	: 02-Sep-2025
Sampler	: AG, JJ, LG	Issue Date	: 11-Sep-2025 09:45
Site	: MS		
Quote number	: 2024-2025 Scope of Work		
No. of samples received	: 11		
No. of samples analysed	: 11		

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon		Organics, Waterloo, Ontario
Cedrick Velasco		Inorganics, Baffin Island, Nunavut
Danielle Gravel		Organics, Waterloo, Ontario
David Tremblett		VOC, Waterloo, Ontario
Jeremy Gingras		Organics, Waterloo, Ontario
Rachel Cameron		Organics, Waterloo, Ontario
Walt Kippenhuck		Inorganics, Waterloo, Ontario
Walt Kippenhuck		Metals, Waterloo, Ontario

General Comments

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

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

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

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

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

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

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

E641 BF2500308-001 RRR: Detection limit raised due to high analyte recovery in the method blank.
E641 BF2500308-003 RRR: Detection limit raised due to high analyte recovery in the method blank.

Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.
TKNI	TKN result may be biased low due to Nitrate interference. Nitrate -N is > 10x TKN.

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20
						BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005
						Result	Result	Result	Result	Result
Physical Tests										
Conductivity	----	E100/WT	1.0	µS/cm		3030	582	952	503	572
pH	----	E108/BF	0.10	pH units		7.25	7.38	6.94	7.38	7.25
Solids, total dissolved [TDS]	----	E162/BF	10	mg/L		2000	314	552	295	329
Solids, total suspended [TSS]	----	E160-L/BF	1.0	mg/L		4.2	3.4	14.2	10.7	<1.0
Turbidity	----	E121/BF	0.10	NTU		1.92	5.33	37.1	6.60	1.65
Alkalinity, total (as CaCO3)	----	E290/WT	2.0	mg/L		214	217	518	208	278
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L		0.264	0.940	1.55	0.319	0.959
Bromide	24959-67-9	E235.Br/WT	0.10	mg/L		6.24 DLDS	<0.10	<0.20 DLDS	<0.10	<0.10
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L		854 DLDS	39.0	18.9 DLDS	21.4	15.9
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L		<0.100 DLDS	0.066	0.045 DLDS	<0.020	0.062
Kjeldahl nitrogen, total [TKN]	----	E318/WT	0.050	mg/L		0.542	1.61	2.24	0.975	1.69
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L		0.597 DLDS	3.78	<0.040 DLDS	3.31	0.181
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L		<0.050 DLDS	0.064	<0.020 DLDS	0.184	<0.010
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L		0.0096	0.0226	0.0974	0.0174	0.0412
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L		21.8 DLDS	19.9	8.56 DLDS	18.3	12.4
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L		<0.0100 DLHC	0.0049	0.0337 DLHC	0.0029	<0.0100 DLM
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L		<0.00100 DLHC	<0.00010	<0.00100 DLHC	<0.00010	<0.00100 DLM
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L		<0.00100 DLHC	0.00028	0.00264 DLHC	0.00028	0.00240 DLM
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L		0.100 DLHC	0.0545	0.0859 DLHC	0.0395	0.0500 DLM

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20
						BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005
						Result	Result	Result	Result	Result
Dissolved Metals										
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L		<0.000200 DLHC	<0.000020	<0.000200 DLHC	<0.000020	<0.000200 DLM
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L		<0.000500 DLHC	<0.000050	<0.000500 DLHC	<0.000050	<0.000500 DLM
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L		<0.100 DLHC	0.030	<0.100 DLHC	0.024	<0.100 DLM
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L		0.0000670 DLHC	0.0000193	<0.0000500 DLHC	0.0000134	<0.0000500 DLM
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L		197 DLHC	40.9	72.1 DLHC	33.4	36.1 DLM
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L		<0.000100 DLHC	0.000014	<0.000100 DLHC	0.000014	<0.000100 DLM
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L		<0.00500 DLHC	0.00084	0.00531 DLHC	0.00091	<0.00500 DLM
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L		<0.00100 DLHC	0.00086	0.00806 DLHC	0.00069	0.00246 DLM
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L		0.00274 DLHC	0.00409	<0.00200 DLHC	0.00351	<0.00200 DLM
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L		<0.100 DLHC	0.025	8.44 DLHC	<0.010	0.102 DLM
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L		<0.000500 DLHC	0.000078	0.000597 DLHC	0.000072	0.000560 DLM
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L		0.0123 DLHC	0.0052	<0.0100 DLHC	0.0045	<0.0100 DLM
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L		217 DLHC	45.2	79.2 DLHC	43.9	49.8 DLM
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L		0.216 DLHC	0.209	3.67 DLHC	0.0802	1.42 DLM
Mercury, dissolved	7439-97-6	E509/WT	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L		0.000540 DLHC	0.00144	0.00170 DLHC	0.000529	0.00905 DLM
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L		0.0215 DLHC	0.0213	0.0366 DLHC	0.0178	0.0222 DLM
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L		<0.500 DLHC	<0.050	<0.500 DLHC	<0.050	<0.500 DLM
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L		9.82 DLHC	2.25	5.62 DLHC	1.49	4.40 DLM
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L		0.0132 DLHC	0.00480	0.00685 DLHC	0.00508	0.00329 DLM
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L		<0.000500 DLHC	0.000093	<0.000500 DLHC	0.000100	<0.000500 DLM

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20
						BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005
						Result	Result	Result	Result	Result
Dissolved Metals										
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L		5.74 DLHC	5.26	11.3 DLHC	5.04	5.29 DLM
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L		<0.000100 DLHC	<0.000010	<0.000100 DLHC	<0.000010	<0.000100 DLM
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L		15.7 DLHC	7.47	17.8 DLHC	4.60	16.1 DLM
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L		0.349 DLHC	0.105	0.0531 DLHC	0.116	0.0281 DLM
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L		8.75 DLHC	7.64	<5.00 DLHC	6.92	5.12 DLM
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L		<0.00200 DLHC	<0.00020	<0.00200 DLHC	<0.00020	<0.00200 DLM
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L		<0.000100 DLHC	0.000014	<0.000100 DLHC	0.000016	<0.000100 DLM
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L		<0.00100 DLHC	<0.00010	<0.00100 DLHC	<0.00010	<0.00100 DLM
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L		<0.00100 DLHC	<0.00010	<0.00100 DLHC	<0.00010	<0.00100 DLM
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L		<0.00300 DLHC	<0.00030	<0.00300 DLHC	<0.00030	<0.00300 DLM
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L		<0.00100 DLHC	<0.00010	<0.00100 DLHC	<0.00010	<0.00100 DLM
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L		0.00585 DLHC	0.00184	0.00244 DLHC	0.00115	0.00458 DLM
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L		<0.00500 DLHC	<0.00050	<0.00500 DLHC	<0.00050	<0.00500 DLM
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L		<0.0100 DLHC	0.0013	<0.0100 DLHC	<0.0010	<0.0100 DLM
Zirconium, dissolved	7440-67-7	E421/WT	0.00030	mg/L		<0.00300 DLHC	0.00054	<0.00300 DLHC	0.00057	<0.00300 DLM
Dissolved mercury filtration location	----	EP509/WT	-	-		Field	Field	Field	Field	Field
Dissolved metals filtration location	----	EP421/WT	-	-		Field	Field	Field	Field	Field
Aggregate Organics										
Oil & grease (gravimetric)	----	E567/WT	5.0	mg/L		<5.0	<5.0	<5.0	<5.0	<5.0
Volatile Organic Compounds										
Acetone	67-64-1	E611D/WT	20	µg/L		<20	<20	35	<20	<20

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20
						BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Benzene	71-43-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	75-27-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	75-25-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	74-83-9	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
BTEX, total	----	E611D/WT	1.0	µg/L		<1.0	3.5	48.4	<1.0	<1.0
Carbon disulfide	75-15-0	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	56-23-5	E611D/WT	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	108-90-7	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	75-00-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	74-87-3	E611D/WT	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	124-48-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	75-71-8	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	3.22

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20
						BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Dichloroethylene, cis+trans-1,2-	540-59-0	E611D/WT	0.71	µg/L		<0.71	<0.71	<0.71	<0.71	3.22
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.30	µg/L		<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.50	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L		<0.30	<0.30	<0.30	<0.30	<0.30
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Hexane, n-	110-54-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Hexanone, 2-	591-78-6	E611D/WT	20	µg/L		<20	<20	<20	<20	<20
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	20	µg/L		<20	<20	<20	<20	<20
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	20	µg/L		<20	<20	<20	<20	<20
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	100-42-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	0.69	0.57
Toluene	108-88-3	E611D/WT	0.50	µg/L		<0.50	<0.50	48.4	<0.50	<0.50
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20
						BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Trichlorofluoromethane	75-69-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes [THMs], total	----	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	E611D/WT	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L		<0.40	<0.40	<0.40	<0.40	<0.40
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L		<0.30	3.52	<0.30	<0.30	0.86
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L		<0.50	3.52	<0.50	<0.50	0.86
Hydrocarbons										
F1 (C6-C10)	----	E581.F1-L/WT	25	µg/L		<25	<25	31	<25	<25
F2 (C10-C16)	----	E601/WT	100	µg/L		<100	140	<100	100	860
F3 (C16-C34)	----	E601/WT	250	µg/L		<250	<250	<250	<250	560
F4 (C34-C50)	----	E601/WT	250	µg/L		<250	<250	<250	<250	<250
F1-BTEX	----	EC580/WT	25	µg/L		<25	<25	<25	<25	<25
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	370	µg/L		<370	<370	<370	<370	1420
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WT	1.0	%		91.0	97.4	92.6	95.9	101
Dichlorotoluene, 3,4-	95-75-0	E581.F1-L/WT	1.0	%		71.0	71.4	68.0	81.0	73.3
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%		88.7	88.5	88.5	88.9	88.8
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%		97.6	97.4	97.0	97.2	97.4
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A-L/WT	0.010	µg/L		<0.010	<0.053 DLM	<0.010	<0.059 DLM	<0.281 DLM

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20
						BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthylene	208-96-8	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.084 DLM
Acridine	260-94-6	E641A-L/WT	0.010	µg/L		<0.010	<0.033 DLM	<0.010	<0.035 DLM	<0.054 DLM
Anthracene	120-12-7	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM
Benz(a)anthracene	56-55-3	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM
Benzo(a)pyrene	50-32-8	E641A-L/WT	0.0050	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	n/a	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b+j+k)fluoranthene	n/a	E641A-L/WT	0.015	µg/L		<0.015	<0.015	<0.015	<0.015	<0.015
Benzo(g,h,i)perylene	191-24-2	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	207-08-9	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Chrysene	218-01-9	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Dibenz(a,h)anthracene	53-70-3	E641A-L/WT	0.0050	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	206-44-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM
Fluorene	86-73-7	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.011 DLM	<0.042 DLM
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Methylnaphthalene, 1-	90-12-0	E641A-L/WT	0.010	µg/L		0.146	0.178	<0.010	0.051	0.883
Methylnaphthalene, 1+2-	----	E641A-L/WT	0.015	µg/L		0.170	0.324	<0.015	0.088	1.30
Methylnaphthalene, 2-	91-57-6	E641A-L/WT	0.010	µg/L		0.024	0.146	<0.010	0.037	0.422
Naphthalene	91-20-3	E641A-L/WT	0.010	µg/L		<0.010	<0.114 DLM	<0.010	<0.011 DLM	<0.191 DLM
Perylene	198-55-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM
Pyrene	129-00-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.042 DLM

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MS-HWB-GW-REF3_2025-08-30 ----	HWB-KP23-01_2025-08-30 ----	HWB-KP22-01_2025-08-30 ----	MS-HWB-GW5_2025-08-30 ----	HWB-KP22-03_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 09:25	30-Aug-2025 10:00	30-Aug-2025 10:50	30-Aug-2025 11:20	30-Aug-2025 12:20
						BF2500308-001	BF2500308-002	BF2500308-003	BF2500308-004	BF2500308-005
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Quinoline	91-22-5	E641A-L/WT	0.010	µg/L		<0.036 DLM, RRR	<0.104 DLM	<0.019 DLM, RRR	<0.435 DLM	<2.65 DLM
B(a)P total potency equivalents [B(a)P TPE]	----	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A-L/WT	0.1	%		99.9	109	102	102	96.4
Naphthalene-d8	1146-65-2	E641A-L/WT	0.1	%		105	108	108	112	106
Phenanthrene-d10	1517-22-2	E641A-L/WT	0.1	%		100	111	107	112	86.8

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

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 13:45	30-Aug-2025 13:45	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45
						BF2500308-006	BF2500308-007	BF2500308-008	BF2500308-009	BF2500308-010
						Result	Result	Result	Result	Result
Physical Tests										
Conductivity	----	E100/WT	1.0	µS/cm		703	725	498	671	679
pH	----	E108/BF	0.10	pH units		7.08	7.02	7.47	7.07	7.61
Solids, total dissolved [TDS]	----	E162/BF	10	mg/L		450	435	279	404	404
Solids, total suspended [TSS]	----	E160-L/BF	1.0	mg/L		1.3	1.1	<1.0	5.5	24.5
Turbidity	----	E121/BF	0.10	NTU		3.98	2.84	1.08	3.55	17.5
Alkalinity, total (as CaCO3)	----	E290/WT	2.0	mg/L		193	198	242	278	174
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L		0.319	0.304	0.211	0.380	<0.0050

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 13:45	30-Aug-2025 13:45	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45
						BF2500308-006	BF2500308-007	BF2500308-008	BF2500308-009	BF2500308-010
						Result	Result	Result	Result	Result
Anions and Nutrients										
Bromide	24959-67-9	E235.Br/WT	0.10	mg/L		<0.10	<0.10	<0.10	<0.10	0.19
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L		97.2	100	4.44	40.5	78.4
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L		0.226	0.136	0.092	0.085	0.025
Kjeldahl nitrogen, total [TKN]	----	E318/WT	0.050	mg/L		0.686	0.682	0.997	0.866	0.315 TKNI
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L		0.162	0.176	3.36	<0.020	4.79
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L		0.017	0.019	0.487	<0.010	<0.010
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L		0.0156	0.0153	0.0166	0.0282	0.0083
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L		11.0	12.2	8.85	10.9	29.3
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L		0.0098	0.0114	0.0032	0.0140	0.0013
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L		0.00051	0.00060	0.00294	0.00111	<0.00010
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L		0.0880	0.0749	0.0301	0.0811	0.0440
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L		0.025	0.020	<0.010	0.043	0.019
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L		0.0000163	0.0000119	0.0000149	0.0000126	0.0000054
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L		70.5	58.8	29.3	72.9	63.0
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L		<0.000010	<0.000010	0.000010	<0.000010	<0.000010
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L		0.00150	0.00160	0.00070	0.00228	0.00084
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L		0.00472	0.00442	0.00147	0.00372	<0.00010

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 13:45	30-Aug-2025 13:45	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45
						BF2500308-006	BF2500308-007	BF2500308-008	BF2500308-009	BF2500308-010
						Result	Result	Result	Result	Result
Dissolved Metals										
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L		0.00222	0.00213	0.00168	0.00147	0.00228
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L		1.16	1.53	<0.010	1.01	<0.010
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L		<0.000050	<0.000050	0.000059	0.000494	<0.000050
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L		0.0260	0.0203	0.0026	0.0182	0.0075
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L		49.8	45.1	43.5	35.8	32.2
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L		1.48	1.43	0.473	1.60	0.00259
Mercury, dissolved	7439-97-6	E509/WT	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L		0.00112	0.00123	0.00148	0.00149	0.000741
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L		0.0466	0.0422	0.0202	0.0372	0.00508
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L		4.37	3.86	2.86	6.35	3.04
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L		0.00581	0.00537	0.00440	0.00383	0.00723
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L		0.000069	0.000062	0.000069	0.000073	0.000076
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L		7.00	6.93	5.30	8.11	4.26
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L		<0.000010	0.000010	<0.000010	<0.000010	<0.000010
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L		8.64	7.09	2.65	6.83	16.2
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L		0.554	0.450	0.0268	0.818	0.166
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L		5.66	4.81	3.23	3.85	10.9
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L		0.000018	0.000014	0.000030	<0.000010	0.000015
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L		<0.00010	0.00010	<0.00010	<0.00010	<0.00010

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 13:45	30-Aug-2025 13:45	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45
						BF2500308-006	BF2500308-007	BF2500308-008	BF2500308-009	BF2500308-010
						Result	Result	Result	Result	Result
Dissolved Metals										
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L		<0.00030	<0.00030	<0.00030	0.00036	<0.00030
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L		0.00323	0.00269	0.00301	0.00458	0.00285
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L		<0.00050	<0.00050	<0.00050	0.00097	<0.00050
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zirconium, dissolved	7440-67-7	E421/WT	0.00030	mg/L		0.00092	0.00089	0.00047	0.00157	0.00046
Dissolved mercury filtration location	----	EP509/WT	-	-		Field	Field	Field	Field	Field
Dissolved metals filtration location	----	EP421/WT	-	-		Field	Field	Field	Field	Field
Aggregate Organics										
Oil & grease (gravimetric)	----	E567/WT	5.0	mg/L		<5.0	<5.0	<5.0	<5.0	<5.0
Volatile Organic Compounds										
Acetone	67-64-1	E611D/WT	20	µg/L		<20	<20	<20	<20	<20
Benzene	71-43-2	E611D/WT	0.50	µg/L		0.50	0.51	<0.50	2.94	<0.50
Bromodichloromethane	75-27-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	75-25-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	74-83-9	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
BTEX, total	----	E611D/WT	1.0	µg/L		85.3	73.2	3.0	80.9	<1.0
Carbon disulfide	75-15-0	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	56-23-5	E611D/WT	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	108-90-7	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 13:45	30-Aug-2025 13:45	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45
						BF2500308-006	BF2500308-007	BF2500308-008	BF2500308-009	BF2500308-010
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Chloroethane	75-00-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	74-87-3	E611D/WT	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	124-48-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	75-71-8	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethylene, cis+trans-1,2-	540-59-0	E611D/WT	0.71	µg/L		<0.71	<0.71	<0.71	<0.71	<0.71
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.30	µg/L		<0.30	<0.30	<0.30	<0.30	<0.30
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.50	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L		<0.30	<0.30	<0.30	<0.30	<0.30
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L		6.05	5.45	<0.50	4.40	<0.50

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 13:45	30-Aug-2025 13:45	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45
						BF2500308-006	BF2500308-007	BF2500308-008	BF2500308-009	BF2500308-010
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Hexane, n-	110-54-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Hexanone, 2-	591-78-6	E611D/WT	20	µg/L		<20	<20	<20	<20	<20
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	20	µg/L		<20	<20	<20	<20	<20
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	20	µg/L		<20	<20	<20	<20	<20
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	100-42-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	108-88-3	E611D/WT	0.50	µg/L		0.58	<0.50	<0.50	<0.50	<0.50
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	75-69-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Trihalomethanes [THMs], total	----	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	E611D/WT	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	<0.20
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L		21.9	16.7	<0.40	18.1	<0.40
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L		56.3	50.5	2.96	55.5	<0.30
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L		78.2	67.2	2.96	73.6	<0.50
Hydrocarbons										
F1 (C6-C10)	----	E581.F1-L/WT	25	µg/L		157	152	<25	408	<25

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 13:45	30-Aug-2025 13:45	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45
						BF2500308-006	BF2500308-007	BF2500308-008	BF2500308-009	BF2500308-010
						Result	Result	Result	Result	Result
Hydrocarbons										
F2 (C10-C16)	----	E601/WT	100	µg/L		440	400	140	810	<100
F3 (C16-C34)	----	E601/WT	250	µg/L		<250	<250	<250	<250	<250
F4 (C34-C50)	----	E601/WT	250	µg/L		<250	<250	<250	<250	<250
F1-BTEX	----	EC580/WT	25	µg/L		72	79	<25	327	<25
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	370	µg/L		600	550	<370	1220	<370
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WT	1.0	%		100	100	93.8	101	93.5
Dichlorotoluene, 3,4-	95-75-0	E581.F1-L/WT	1.0	%		69.1	76.7	77.8	73.0	73.9
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%		93.7	94.3	90.3	96.8	89.7
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%		97.5	97.2	96.7	97.4	96.8
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A-L/WT	0.010	µg/L		<0.089 DLM	<0.084 DLM	<0.010	<0.112 DLM	<0.010
Acenaphthylene	208-96-8	E641A-L/WT	0.010	µg/L		<0.025 DLM	<0.024 DLM	<0.010	<0.035 DLM	<0.010
Acridine	260-94-6	E641A-L/WT	0.010	µg/L		<0.013 DLM	<0.013 DLM	<0.010	<0.015 DLM	<0.010
Anthracene	120-12-7	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Benz(a)anthracene	56-55-3	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(a)pyrene	50-32-8	E641A-L/WT	0.0050	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	n/a	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b+j+k)fluoranthene	n/a	E641A-L/WT	0.015	µg/L		<0.015	<0.015	<0.015	<0.015	<0.015
Benzo(g,h,i)perylene	191-24-2	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	HWB-KP23-02_2025-08-30 ----	QD-CC4_2025-08-30 ----	HWB-KP22-04_2025-08-30 ----	HWB-KP23-03_2025-08-30 ----	MS-HWB-GW-REF1_2025-08-30 ----
					Client sampling date / time	30-Aug-2025 13:45	30-Aug-2025 13:45	30-Aug-2025 14:55	30-Aug-2025 15:30	30-Aug-2025 16:45
						BF2500308-006	BF2500308-007	BF2500308-008	BF2500308-009	BF2500308-010
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Benzo(k)fluoranthene	207-08-9	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Chrysene	218-01-9	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Dibenz(a,h)anthracene	53-70-3	E641A-L/WT	0.0050	µg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	206-44-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Fluorene	86-73-7	E641A-L/WT	0.010	µg/L		0.132	0.122	<0.010	0.169	<0.010
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Methylnaphthalene, 1-	90-12-0	E641A-L/WT	0.010	µg/L		7.44	6.35	0.231	15.5	<0.010
Methylnaphthalene, 1+2-	----	E641A-L/WT	0.015	µg/L		17.1	14.1	0.411	40.5	<0.015
Methylnaphthalene, 2-	91-57-6	E641A-L/WT	0.010	µg/L		9.63	7.76	0.180	25.0	<0.010
Naphthalene	91-20-3	E641A-L/WT	0.010	µg/L		13.6	13.0	<0.412 DLM	36.8	<0.010
Perylene	198-55-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A-L/WT	0.010	µg/L		0.025	0.029	<0.010	0.010	<0.010
Pyrene	129-00-0	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Quinoline	91-22-5	E641A-L/WT	0.010	µg/L		<0.838 DLM	<0.767 DLM	<0.081 DLM	<2.11 DLM	<0.011 DLM
B(a)P total potency equivalents [B(a)P TPE]	----	E641A-L/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A-L/WT	0.1	%		101	101	92.9	98.3	92.4
Naphthalene-d8	1146-65-2	E641A-L/WT	0.1	%		103	102	113	104	111
Phenanthrene-d10	1517-22-2	E641A-L/WT	0.1	%		92.3	95.8	94.0	89.6	105

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