

CERTIFICATE OF ANALYSIS

Work Order : HA2503218

Client : WSP Canada Inc. Laboratory : ALS Environmental - Halifax Contact : Naomi Giles : Account Manager : Amanda Overholster

Address : 1 Spectacle Lake Drive Address

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Amanda.Overholster@ALSGlobal.com

: 13-100 Wright Ave

 Project
 : CA0050657.1254
 Telephone
 : 1 416 817 2944

 PO
 : P115454CA001
 Date Samples Received
 : 20-Aug-2025 13:30

 C-O-C number
 : 20-Aug-2025

Sampler : Client Issue Date : 28-Aug-2025 14:55

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No. of samples received : 5
No. of samples analysed : 5

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

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

Telephone

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
Jiaxi Wang		Inorganics, Dartmouth, Nova Scotia
Jiaxi Wang		Microbiology, Dartmouth, Nova Scotia
Jon Fisher		Inorganics, Waterloo, Ontario
Kevin Baxter		Inorganics, Winnipeg, Manitoba
Lee McTavish		Inorganics, Winnipeg, Manitoba
Robyn MacCormack		Administration, Dartmouth, Nova Scotia
Walt Kippenhuck		Metals, Waterloo, Ontario
Walt Kippenhuck		Inorganics, Waterloo, Ontario

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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
%	percent
CU	colour units (1 cu = 1 mg/l pt)
L	litres
meq/L	milliequivalents per litre
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
μg/L	micrograms per litre
μg/sample	micrograms per sample
μS/cm	microsiemens per centimetre

<: less 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.

>: greater than.



Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.

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Analytical Results

Sub-Matrix: Water (Matrix: Water)			Client	sample ID	PML-2 	KL-6 	KL-7 	HWY-102-2 	PML-1
			Client sampling	date / time	20-Aug-2025 12:30	20-Aug-2025 10:35	20-Aug-2025 10:15	20-Aug-2025 11:15	20-Aug-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503218-001	HA2503218-002	HA2503218-003	HA2503218-004	HA2503218-005
					Result	Result	Result	Result	Result
Sample Preparation									
Volume filtered		EF870B/HA	0.001	L	0.100	0.100	0.100	0.100	0.100
Physical Tests									
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/WT	1.2	mg/L	16.5	10.2	9.4	28.1	15.5
Alkalinity, carbonate (as CO3)	3812-32-6	E290/WT	1.0	mg/L	<0.6	<0.6	<0.6	<0.6	<0.6
Alkalinity, hydroxide (as OH)	14280-30-9	E290/WT	1.0	mg/L	<0.3	<0.3	<0.3	<0.3	<0.3
Alkalinity, total (as CaCO3)		E290/WT	1.0	mg/L	13.5	8.4	7.7	23.0	12.7
Colour, apparent		E330/WT	2.0	CU	21.2	23.2	20.6	79.9	20.7
Conductivity		E100/WT	1.0	μS/cm	467	364	348	717	455
Hardness (as CaCO3), from total Ca/Mg		EC100A/WT	0.50	mg/L	43.5	32.8	31.1	86.2	43.4
Langelier index (@ 20°C)		EC105A/WT	0.010	-	-2.01	-2.43	-2.40	-1.58	-1.89
Langelier index (@ 4°C)		EC105A/WT	0.010	-	-2.25	-2.68	-2.65	-1.83	-2.14
На		E108/HA	0.10	pH units	7.13	7.02	7.11	7.07	7.27
pH, saturation (@ 20°C)		EC105A/WT	0.010	pH units	9.14	9.45	9.51	8.65	9.16
pH, saturation (@ 4°C)		EC105A/WT	0.010	pH units	9.38	9.70	9.76	8.90	9.41
Solids, total dissolved [TDS]		E162/HA	10	mg/L	261 DLDS	214 DLDS	199 DLDS	452 DLDS	256 DLDS
Solids, total suspended [TSS]		E160/HA	3.0	mg/L	<3.0	<3.0	<3.0	<3.0	6.0
Turbidity		E121/WT	0.10	NTU	0.38	0.35	0.22	2.14	0.64
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	0.0210	0.0069	0.0077	0.184	0.0323
Chloride	16887-00-6	E235.CI/WT	0.50	mg/L	113	88.0	84.1	176	111
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.043	0.033	0.032	0.036	0.041

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Analytical Results

Sub-Matrix: Water (Matrix: Water)			Client	sample ID	PML-2 	KL-6 	KL-7 	HWY-102-2 	PML-1
			Client sampling	date / time	20-Aug-2025 12:30	20-Aug-2025 10:35	20-Aug-2025 10:15	20-Aug-2025 11:15	20-Aug-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503218-001	HA2503218-002	HA2503218-003	HA2503218-004	HA2503218-005
					Result	Result	Result	Result	Result
Anions and Nutrients									
Kjeldahl nitrogen, total [TKN]		E318/WT	0.050	mg/L	0.241	0.198	0.155	0.504	0.673
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.026	0.113	0.142	0.074	0.036
Nitrate + Nitrite (as N)		EC235.N+N/WT	0.0032	mg/L	0.0260	0.113	0.142	0.0740	0.0360
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L	0.0035	0.0036	0.0021	0.0123	0.0452
Silicate (as SiO2)	7631-86-9	E392/WP	0.50	mg/L	0.81	1.98	2.14	8.12	0.80
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	10.8	10.4	10.3	18.4	10.5
Organic / Inorganic Carbon									
Carbon, total organic [TOC]		E355-L/WT	0.50	mg/L	4.37	4.32	4.32	7.28	6.15
Microbiological Tests									
Coliforms, total		E010/HA	1	MPN/100 mL	>2420	921	179	>2420	2420
Coliforms, Escherichia coli [E. coli]		E010/HA	1	MPN/100 mL	1	8	3	129	8
Ion Balance									
Anion sum		EC101A/WT	0.10	meq/L	3.69	2.88	2.75	5.81	3.61
Cation sum (total)		EC101A/WT	0.10	meq/L	3.76	2.92	2.75	6.15	3.67
Ion balance (cations/anions)		EC101A/WT	0.01	%	102	101	100	106	102
Total Metals									
Aluminum, total	7429-90-5	E420/WT	0.0030	mg/L	0.0120	0.0326	0.0286	0.0487	0.183
Antimony, total	7440-36-0	E420/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	0.00016	0.00014
Arsenic, total	7440-38-2	E420/WT	0.00010	mg/L	0.00028	0.00031	0.00027	0.00047	0.00037

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Analytical Results

Sub-Matrix: Water (Matrix: Water)			Client	sample ID	PML-2 	KL-6 	KL-7 	HWY-102-2 	PML-1
			Client sampling	date / time	20-Aug-2025 12:30	20-Aug-2025 10:35	20-Aug-2025 10:15	20-Aug-2025 11:15	20-Aug-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503218-001	HA2503218-002	HA2503218-003	HA2503218-004	HA2503218-005
					Result	Result	Result	Result	Result
Total Metals									
Barium, total	7440-39-3	E420/WT	0.00010	mg/L	0.0238	0.0258	0.0248	0.211	0.0270
Bismuth, total	7440-69-9	E420/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron, total	7440-42-8	E420/WT	0.010	mg/L	0.010	<0.010	<0.010	0.013	0.010
Cadmium, total	7440-43-9	E420/WT	0.0000050	mg/L	<0.0000050	0.0000050	0.0000101	0.0000270	0.0000169
Calcium, total	7440-70-2	E420/WT	0.050	mg/L	13.9	10.4	9.85	28.2	13.9
Chromium, total	7440-47-3	E420/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	7440-48-4	E420/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	0.00048	0.00044
Copper, total	7440-50-8	E420/WT	0.00050	mg/L	0.00074	0.00068	0.00069	0.00087	0.00135
Iron, total	7439-89-6	E420/WT	0.010	mg/L	0.103	0.052	0.028	0.869	0.416
Lead, total	7439-92-1	E420/WT	0.000050	mg/L	<0.000050	0.000154	<0.000050	0.000184	0.000348
Magnesium, total	7439-95-4	E420/WT	0.0050	mg/L	2.13	1.67	1.57	3.84	2.11
Manganese, total	7439-96-5	E420/WT	0.00010	mg/L	0.0809	0.0324	0.0104	0.219	0.196
Molybdenum, total	7439-98-7	E420/WT	0.000050	mg/L	0.000181	0.000201	0.000176	0.000225	0.000206
Nickel, total	7440-02-0	E420/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	0.00095	0.00056
Potassium, total	7440-09-7	E420/WT	0.050	mg/L	1.58	1.16	1.12	2.44	1.65
Selenium, total	7782-49-2	E420/WT	0.000050	mg/L	0.000062	0.000066	0.000063	0.000064	0.000080
Silicon (as SiO2), total	7631-86-9	EC420.SiO2/WT	0.25	mg/L	0.92	2.01	2.16	8.02	1.05
Silicon, total	7440-21-3	E420/WT	0.10	mg/L	0.43	0.94	1.01	3.75	0.49
Silver, total	7440-22-4	E420/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium, total	7440-23-5	E420/WT	0.050	mg/L	65.3	51.1	48.2	99.0	62.5
Strontium, total	7440-24-6	E420/WT	0.00020	mg/L	0.0617	0.0469	0.0447	0.135	0.0625

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Analytical Results

Sub-Matrix: Water (Matrix: Water)	Client sample ID			PML-2 	KL-6 	KL-7 	HWY-102-2 	PML-1 	
			Client sampling	date / time	20-Aug-2025 12:30	20-Aug-2025 10:35	20-Aug-2025 10:15	20-Aug-2025 11:15	20-Aug-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503218-001	HA2503218-002	HA2503218-003	HA2503218-004	HA2503218-005
					Result	Result	Result	Result	Result
Total Metals									
Thallium, total	7440-28-0	E420/WT	0.000010	mg/L	<0.000010	0.000014	0.000013	<0.000010	0.000011
Tin, total	7440-31-5	E420/WT	0.00010	mg/L	0.00117	<0.00010	<0.00010	<0.00010	0.00303
Titanium, total	7440-32-6	E420/WT	0.00030	mg/L	<0.00030	0.00039	<0.00030	0.00055	0.00330
Uranium, total	7440-61-1	E420/WT	0.000010	mg/L	0.000013	0.000054	0.000059	0.000015	0.000031
Vanadium, total	7440-62-2	E420/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, total	7440-66-6	E420/WT	0.0030	mg/L	<0.0030	<0.0030	<0.0030	0.0079	0.0050
Plant Pigments									
Chlorophyll a	479-61-8	EC870B/WP	0.010	μg/L	0.768	1.73	1.13	1.52	1.59
Chlorophyll a	479-61-8	E870B/WP	0.0020	µg/sampl e	0.0768	0.173	0.113	0.152	0.159

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

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QUALITY CONTROL INTERPRETIVE REPORT

:HA2503218 **Work Order** Page : 1 of 23

Client : WSP Canada Inc. Laboratory : ALS Environmental - Halifax

Contact : Naomi Giles **Account Manager** : Amanda Overholster Address

Address : 1 Spectacle Lake Drive : 13-100 Wright Ave

Dartmouth NS Canada B3B 1X7 Dartmouth, Nova Scotia Canada B3B 1L2

Telephone Telephone : 1 416 817 2944 **Project** : CA0050657.1254 **Date Samples Received** : 20-Aug-2025 13:30

PO : P115454CA001 Issue Date : 28-Aug-2025 14:56 C O C number ٠____ Sampler : Client

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No of samples received :5 No. of samples analysed :5

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.

Site

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

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

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit). RPD: Relative Percent Difference.

Workorder Comments

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

Summary of Outliers

Outliers: Quality Control Samples

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

• Quality Control Sample Frequency Outliers occur - please see following pages for full details.

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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								
Physical Tests	QC-MRG3-2178378		Conductivity		E100	2.6 ^B	2 μS/cm	Blank result exceeds
	001					μS/cm		permitted value

Result Qualifiers

Qualifier	Description
В	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times
	blank level are considered reliable.

Duplicate (DUP) RPDs							
Microbiological Tests	Anonymous	Anonymous	Coliforms, Escherichia coli	 E010	98.8 % DUPM	65%	Duplicate RPD does not
			[E. coli]				meet the DQO for this test.

Result Qualifiers

Qualifier	Description
DUPM	MPN duplicate results were outside default ALS Data Quality Objective, but within 95% confidence interval for MPN reference method. Sample results are reliable.

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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	Method	Sampling Date	Ext	raction / Pi	reparation		riolaing time exec	Analys	is	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) PML-2	E298	20-Aug-2025	26-Aug-2025	28 days	5 days	~	26-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) HWY-102-2	E298	20-Aug-2025	26-Aug-2025	28 days	6 days	√	26-Aug-2025	28 days	6 days	1
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) KL-6	E298	20-Aug-2025	26-Aug-2025	28 days	6 days	*	26-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) KL-7	E298	20-Aug-2025	26-Aug-2025	28 days	6 days	~	26-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) PML-1	E298	20-Aug-2025	26-Aug-2025	28 days	6 days	4	26-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE HWY-102-2	E235.CI	20-Aug-2025	23-Aug-2025	28 days	3 days	✓	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE KL-6	E235.Cl	20-Aug-2025	23-Aug-2025	28 days	3 days	✓	25-Aug-2025	28 days	3 days	✓

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

Matrix: Water					E۱	/aluation: 🗷 =	Holding time exce	edance ; 🔊	= Within	Holding Tin
Analyte Group : Analytical Method	Method	Sampling Date	Ex	traction / Pi	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE										
KL-7	E235.CI	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
PML-1	E235.CI	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
PML-2	E235.CI	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
HWY-102-2	E378-U	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
KL-6	E378-U	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
KL-7	E378-U	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
PML-1	E378-U	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
PML-2	E378-U	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC					<u> </u>					
HDPE										
HWY-102-2	E235.F	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						

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Matrix: Water Evaluation: × = Holding time exceedance: ✓ = Within Holding Time

Matrix: Water					E۱	/aluation: 😕 =	Holding time exce	edance ; 🕦	/ = Within	Holding Tim
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	eparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	l
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
KL-6	E235.F	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
KL-7	E235.F	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
PML-1	E235.F	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
PML-2	E235.F	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
HWY-102-2	E235.NO3	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
KL-6	E235.NO3	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
KL-7	E235.NO3	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
PML-1	E235.NO3	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
PML-2	E235.NO3	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓

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Matrix: Water Evaluation: × = Holding time exceedance; √ = Within Holding Time

Matrix: Water					E۱	/aluation: 😕 =	Holding time excee	edance ; 🔻	/ = Within	Holding Tim
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	eparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
HWY-102-2	E235.NO2	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
KL-6	E235.NO2	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
KL-7	E235.NO2	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
PML-1	E235.NO2	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
PML-2	E235.NO2	20-Aug-2025	23-Aug-2025	3 days	3 days	✓	25-Aug-2025	3 days	3 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
HWY-102-2	E392	20-Aug-2025					25-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
KL-6	E392	20-Aug-2025					25-Aug-2025	28 days	5 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
KL-7	E392	20-Aug-2025					25-Aug-2025	28 days	5 days	✓
									_	
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
PML-1	E392	20-Aug-2025					25-Aug-2025	28 days	5 days	✓
									-	

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Matrix: Water					L	/aluation. * -	Holding time exce	euance,	- vviu iiii	Holding Time
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pi	reparation			Analys	iis	
Container / Client Sample ID(s)			Preparation Date	Holdin Rec	g Times Actual	Eval	Analysis Date	Holding Rec	Times Actual	Eval
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE PML-2	E392	20-Aug-2025					25-Aug-2025	28 days	5 days	√
Anions and Nutrients : Sulfate in Water by IC										
HDPE HWY-102-2	E235.SO4	20-Aug-2025	23-Aug-2025	28 days	3 days	*	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE KL-6	E235.SO4	20-Aug-2025	23-Aug-2025	28 days	3 days	1	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE KL-7	E235.SO4	20-Aug-2025	23-Aug-2025	28 days	3 days	√	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE PML-1	E235.SO4	20-Aug-2025	23-Aug-2025	28 days	3 days	~	25-Aug-2025	28 days	3 days	√
Anions and Nutrients : Sulfate in Water by IC										
HDPE PML-2	E235.SO4	20-Aug-2025	23-Aug-2025	28 days	3 days	√	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) HWY-102-2	E318	20-Aug-2025	26-Aug-2025	28 days	6 days	√	26-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) KL-6	E318	20-Aug-2025	26-Aug-2025	28 days	6 days	1	26-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) KL-7	E318	20-Aug-2025	26-Aug-2025	28 days	6 days	√	26-Aug-2025	28 days	6 days	✓

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Analyte Group : Analytical Method	Method	Sampling Date	Ex	traction / Pr	eparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
PML-1	E318	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
PML-2	E318	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
HWY-102-2	E372-U	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
KL-6	E372-U	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
KL-7	E372-U	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
PML-1	E372-U	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
PML-2	E372-U	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
PML-1	E010	20-Aug-2025					21-Aug-2025	30 hrs	25 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
PML-2	E010	20-Aug-2025					21-Aug-2025	30 hrs	25 hrs	✓
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Analyte Group : Analytical Method	Method	Sampling Date	Ext	raction / Pr	eparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
HWY-102-2	E010	20-Aug-2025					21-Aug-2025	30 hrs	26 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
KL-6	E010	20-Aug-2025					21-Aug-2025	30 hrs	27 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
KL-7	E010	20-Aug-2025					21-Aug-2025	30 hrs	27 hrs	✓
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustic	on (Low Level)									
Amber glass total (sulfuric acid)										
PML-2	E355-L	20-Aug-2025	26-Aug-2025	28	5 days	✓	26-Aug-2025	28 days	5 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustion	on (Low Level)									
Amber glass total (sulfuric acid)										
HWY-102-2	E355-L	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustic	on (Low Level)									
Amber glass total (sulfuric acid)										
KL-6	E355-L	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustic	on (Low Level)									
Amber glass total (sulfuric acid)										
KL-7	E355-L	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combustic	on (Low Level)									
Amber glass total (sulfuric acid)										
PML-1	E355-L	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
				days						
Physical Tests : Alkalinity Species by Titration										
HDPE	T T									
	E290	20-Aug-2025	23-Aug-2025		3 days	✓	25-Aug-2025	14 days	3 days	✓
HWY-102-2	E290	20-Aug-2025	23-Aug-2023	14	3 days	*	20-Aug-2020	14 days	o days	-

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Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	reparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration										
HDPE										
KL-6	E290	20-Aug-2025	23-Aug-2025	14	3 days	✓	25-Aug-2025	14 days	3 days	✓
				days						
Physical Tests: Alkalinity Species by Titration										
HDPE										
KL-7	E290	20-Aug-2025	23-Aug-2025	14	3 days	✓	25-Aug-2025	14 days	3 days	✓
				days						
Physical Tests : Alkalinity Species by Titration										
HDPE										
PML-1	E290	20-Aug-2025	23-Aug-2025	14	3 days	✓	25-Aug-2025	14 days	3 days	✓
				days						
Physical Tests: Alkalinity Species by Titration										
HDPE										
PML-2	E290	20-Aug-2025	23-Aug-2025	14	3 days	✓	25-Aug-2025	14 days	3 days	✓
				days						
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE										
PML-2	E330	20-Aug-2025					24-Aug-2025	48 hrs	96 hrs	*
										EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE										
HWY-102-2	E330	20-Aug-2025					24-Aug-2025	48 hrs	97 hrs	*
										EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE										
PML-1	E330	20-Aug-2025					24-Aug-2025	48 hrs	97 hrs	*
										EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE										
KL-6	E330	20-Aug-2025					24-Aug-2025	48 hrs	98 hrs	*
										EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE										
KL-7	E330	20-Aug-2025					24-Aug-2025	48 hrs	98 hrs	34
										EHT
		1						1		

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Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / P	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Physical Tests : Conductivity in Water										
HDPE										
HWY-102-2	E100	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Physical Tests : Conductivity in Water										
HDPE	Т									
KL-6	E100	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Physical Tests : Conductivity in Water										
HDPE	Т									
KL-7	E100	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Physical Tests : Conductivity in Water										
HDPE	T									
PML-1	E100	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Physical Tests : Conductivity in Water										
HDPE	Т									
PML-2	E100	20-Aug-2025	23-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Physical Tests: pH by Meter										
HDPE										
PML-2	E108	20-Aug-2025	22-Aug-2025	0.25	44 hrs	Se Se	25-Aug-2025	0.25	44 hrs	*
				hrs		EHTR-FM		hrs		EHTR-FN
Physical Tests: pH by Meter										
HDPE										
PML-1	E108	20-Aug-2025	22-Aug-2025	0.25	45 hrs	se .	26-Aug-2025	0.25	45 hrs	*
				hrs		EHTR-FM		hrs		EHTR-FN
Physical Tests : pH by Meter										
HDPE		I								
HWY-102-2	E108	20-Aug-2025	22-Aug-2025	0.25	46 hrs	24	26-Aug-2025	0.25	46 hrs	*
				hrs		EHTR-FM		hrs		EHTR-FM
Physical Tests : pH by Meter										
HDPE										
KL-6	E108	20-Aug-2025	22-Aug-2025	0.25	46 hrs	36	25-Aug-2025	0.25	46 hrs	34
				hrs		EHTR-FM		hrs		EHTR-FN

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Matrix: Water					E۱	/aluation: 🗷 = 1	Holding time excee	edance ; •	✓ = Within	Holding Tim
Analyte Group : Analytical Method	Method	Sampling Date	Ext	raction / Pr	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter										
HDPE										
KL-7	E108	20-Aug-2025	22-Aug-2025	0.25	47 hrs	Se .	26-Aug-2025	0.25	47 hrs	*
				hrs		EHTR-FM		hrs		EHTR-FM
Physical Tests: TDS by Gravimetry										
HDPE										
HWY-102-2	E162	20-Aug-2025					25-Aug-2025	7 days	5 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
KL-6	E162	20-Aug-2025					25-Aug-2025	7 days	5 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
KL-7	E162	20-Aug-2025					25-Aug-2025	7 days	5 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
PML-1	E162	20-Aug-2025					25-Aug-2025	7 days	5 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
PML-2	E162	20-Aug-2025					25-Aug-2025	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
HWY-102-2	E160	20-Aug-2025					21-Aug-2025	7 days	1 days	✓
Physical Tests: TSS by Gravimetry										
HDPE										
KL-6	E160	20-Aug-2025					21-Aug-2025	7 days	1 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
KL-7	E160	20-Aug-2025					21-Aug-2025	7 days	1 days	✓

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Matrix: Water					Ev	aluation: 😕 =	Holding time excee	edance ; 🕦	= Within	Holding Tim
Analyte Group : Analytical Method	Method	Sampling Date	Ext	raction / Pi	reparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Physical Tests: TSS by Gravimetry										
HDPE										
PML-1	E160	20-Aug-2025					21-Aug-2025	7 days	1 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
PML-2	E160	20-Aug-2025					21-Aug-2025	7 days	1 days	✓
Physical Tests : Turbidity by Nephelometry										
HDPE										
HWY-102-2	E121	20-Aug-2025					22-Aug-2025	3 days	2 days	✓
Physical Tests : Turbidity by Nephelometry										
HDPE										
KL-6	E121	20-Aug-2025					22-Aug-2025	3 days	2 days	✓
Physical Tests : Turbidity by Nephelometry										
HDPE										
KL-7	E121	20-Aug-2025					22-Aug-2025	3 days	2 days	✓
Physical Tests : Turbidity by Nephelometry										
HDPE										
PML-1	E121	20-Aug-2025					22-Aug-2025	3 days	2 days	✓
									•	
Physical Tests : Turbidity by Nephelometry										
HDPE										
PML-2	E121	20-Aug-2025					22-Aug-2025	3 days	2 days	✓
							J	1	,	
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube										
HWY-102-2	E870B	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
		.5		days	,-			20,0	,-	
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)				days						
Opaque HDPE tube										
KL-6	E870B	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	1
NE 0	20,00	20 / lug 2020	20 / lug 2020	days	Julys		20 / lug 2020	20 days	Judys	-
				uays						

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Analysic Group : Anal	Water					E	/aluation: × =	Holding time excee	edance; v	= vvitnin	Holding Time
Plant Pigments : Chlorophyli-a by Fluorometry (Support Lab Filtered μg)	te Group : Analytical Method	Method	Sampling Date	Ext	traction / Pi	reparation			Analys	sis	
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)	ainer / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
Copaque HDPE tube E870B 20-Aug-2025 26-Aug-2025 28 6 days ✓ 26-Aug-2025 28 days 0 days ✓ 26-Aug-2025				Date	Rec	Actual			Rec	Actual	
RL-7 E870B 20-Aug-2025 26-Aug-2025 28 6 days ✓ 26-Aug-2025 28 days days ✓ 26-Aug-2	Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered μg)										
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered μg)	ue HDPE tube										
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg) Opaque HDPE tube	-7	E870B	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
Opaque HDPE tube PML-1 E870B 20-Aug-2025 26-Aug-2025 28 days 6 days ✓ 26-Aug-2025 28 days 6 days Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered μg) Opaque HDPE tube PML-2 E870B 20-Aug-2025 26-Aug-2025 28 days 6 days ✓ 26-Aug-2025 28 days 6 days Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE HWY-102-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 4 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE HWY-102-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE PML-1 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs					days						
Copaque HDPE tube PML-1 E870B 20-Aug-2025 26-Aug-2025 28 days 6 days ✓ 26-Aug-2025 28 days 6 days PIAL-2 Interpretation: Chlorophyll-a by Fluorometry (Support Lab Filtered μg) Opaque HDPE tube PML-2 E870B 20-Aug-2025 26-Aug-2025 28 days 6 days ✓ 26-Aug-2025 28 days 6 days Sample Preparation: Chlorophyll-a Filtration by Support Laboratory Opaque HDPE HWY-102-2 EF870B 20-Aug-2025 — — 20-Aug-2025 48 hrs 4 hrs Sample Preparation: Chlorophyll-a Filtration by Support Laboratory Opaque HDPE HWY-102-2 EF870B 20-Aug-2025 — — 20-Aug-2025 48 hrs 5 hrs Sample Preparation: Chlorophyll-a Filtration by Support Laboratory Opaque HDPE PML-1 EF870B 20-Aug-2025 — — 20-Aug-2025 48 hrs 5 hrs	Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered μg) Opaque HDPE tube PML-2 E870B 20-Aug-2025 26-Aug-2025 28 6 days ✓ 26-Aug-2025 28 days 6 days ✓ 26-Aug-2025 28 days 6 days Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE PML-2 EF870B 20-Aug-2025 ——————————————————————————————————	ue HDPE tube										
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtred µg) Opaque HDPE tube	IL-1	E870B	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
Opaque HDPE tube PML-2 E870B 20-Aug-2025 26-Aug-2025 28 days 6 days ✓ 26-Aug-2025 28 days 6 days Sample Preparation : Chlorophyll-a Filtration by Support Laboratory EF870B 20-Aug-2025 20-Aug-2025 48 hrs 4 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs					days						
PML-2 E870B 20-Aug-2025 26-Aug-2025 28 days 6 days ✓ 26-Aug-2025 28 days 6 days Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE HWVY-102-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 4 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE HWY-102-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE PML-1 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs	Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered μg)										
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory	ue HDPE tube										
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory	IL-2	E870B	20-Aug-2025	26-Aug-2025	28	6 days	✓	26-Aug-2025	28 days	6 days	✓
Opaque HDPE PML-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 4 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs					days						
PML-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 4 hrs	e Preparation : Chlorophyll-a Filtration by Support Laboratory										
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE	ue HDPE										
Opaque HDPE HWY-102-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Opaque HDPE PML-1 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs	IL-2	EF870B	20-Aug-2025					20-Aug-2025	48 hrs	4 hrs	✓
Opaque HDPE HWY-102-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Sample Preparation: Chlorophyll-a Filtration by Support Laboratory Description of the property of											
## HWY-102-2 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs Sample Preparation : Chlorophyll-a Filtration by Support Laboratory	e Preparation : Chlorophyll-a Filtration by Support Laboratory										
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory Opaque HDPE PML-1 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs	ue HDPE										
Opaque HDPE EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs	/Y-102-2	EF870B	20-Aug-2025					20-Aug-2025	48 hrs	5 hrs	✓
Opaque HDPE EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs											
PML-1 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 5 hrs	e Preparation : Chlorophyll-a Filtration by Support Laboratory										
	ue HDPE										
	IL-1	EF870B	20-Aug-2025					20-Aug-2025	48 hrs	5 hrs	✓
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory	e Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE	•										
KL-6 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 6 hrs	-6	EF870B	20-Aug-2025					20-Aug-2025	48 hrs	6 hrs	✓
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory	e Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE	ue HDPE										
KL-7 EF870B 20-Aug-2025 20-Aug-2025 48 hrs 6 hrs	-7	EF870B	20-Aug-2025					20-Aug-2025	48 hrs	6 hrs	✓
Total Metals: Total Metals in Water by CRC ICPMS	Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	total (nitric acid)										
HWY-102-2 E420 20-Aug-2025 25-Aug-2025 180 5 days ✓ 25-Aug-2025 180 5 days	/Y-102-2	E420	20-Aug-2025	25-Aug-2025	180	5 days	✓	25-Aug-2025	180	5 days	✓
days days					days				days		

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

							riolaling time exceet			riolaning rinne
Analyte Group : Analytical Method	Method	Sampling Date	Ext	raction / Pr	eparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding Times		Eval
			Date	Rec	Actual			Rec	Actual	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
KL-6	E420	20-Aug-2025	25-Aug-2025	180	5 days	✓	25-Aug-2025	180	5 days	✓
				days				days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
KL 7	E420	20-Aug-2025	25-Aug-2025	180	5 days	✓	25-Aug-2025	180	5 days	✓
				days				days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
PML-1	E420	20-Aug-2025	25-Aug-2025	180	5 days	✓	25-Aug-2025	180	5 days	✓
				days				days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
PML-2	E420	20-Aug-2025	25-Aug-2025	180	5 days	✓	25-Aug-2025	180	5 days	✓
				days				days		

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

EHT: Exceeded ALS recommended hold time prior to analysis.

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

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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		Evaluatio	n: × = QC freque	ency outside sp	ecification; ✓ = (QC frequency wit	thin specificatio
Quality Control Sample Type				ount		Frequency (%)	
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Total Coliforms and E. coli (Enzyme Substrate)	E010	2176467	1	11	9.0	5.0	✓
Conductivity in Water	E100	2177900	2	28	7.1	5.0	✓
pH by Meter	E108	2175442	1	20	5.0	5.0	✓
Turbidity by Nephelometry	E121	2176023	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	2172911	1	19	5.2	5.0	✓
TDS by Gravimetry	E162	2180095	1	18	5.5	5.2	✓
Chloride in Water by IC	E235.CI	2177898	2	37	5.4	5.0	✓
Fluoride in Water by IC	E235.F	2177895	2	32	6.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2177897	2	39	5.1	5.0	✓
Nitrate in Water by IC	E235.NO3	2177896	2	40	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2177899	2	37	5.4	5.0	✓
Alkalinity Species by Titration	E290	2177901	2	38	5.2	5.0	✓
Ammonia by Fluorescence	E298	2180757	1	14	7.1	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2180753	1	19	5.2	5.0	√
Colour (Apparent) by Spectrometer	E330	2179166	1	20	5.0	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2180761	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2180755	1	20	5.0	5.0	✓
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2177904	2	29	6.9	5.0	✓
Reactive Silica by Colourimetry	E392	2180213	1	19	5.2	5.0	√
Total Metals in Water by CRC ICPMS	E420	2178989	1	20	5.0	5.0	✓
Chlorophyll-a by Fluorometry (Support Lab Filtered µg)	E870B	2182455	0	13	0.0	5.0	×
Laboratory Control Samples (LCS)							
Conductivity in Water	E100	2177900	2	28	7.1	5.0	✓
pH by Meter	E108	2175442	1	20	5.0	5.0	✓
Turbidity by Nephelometry	E121	2176023	1	20	5.0	5.0	<u> </u>
TSS by Gravimetry	E160	2172911	1	19	5.2	5.0	<u> </u>
TDS by Gravimetry	E162	2180095	1	18	5.5	5.2	
Chloride in Water by IC	E235.CI	2177898	2	37	5.4	5.0	
Fluoride in Water by IC	E235.F	2177895	2	32	6.2	5.0	
Nitrite in Water by IC	E235.NO2	2177897	2	39	5.1	5.0	<u> </u>
Nitrate in Water by IC	E235.NO3	2177896	2	40	5.0	5.0	<u> </u>
Sulfate in Water by IC	E235.SO4	2177899	2	37	5.4	5.0	
Alkalinity Species by Titration	E290	2177901	2	38	5.2	5.0	<u> </u>
Ammonia by Fluorescence	E298	2180757	1	14	7.1	5.0	
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2180753	1	19	5.2	5.0	<u>·</u>
Colour (Apparent) by Spectrometer	E330	2179166	1	20	5.0	5.0	<u> </u>

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Anaptical Methods GC Regular Archan Expected Evaluation Expected	Matrix: Water		Evaluation	n: × = QC freque	ency outside spe	ecification; ✓ = (QC frequency wit	hin specification.
East 2180761 1 20 5.0 5.0 \$ \$ \$ \$ \$ \$ \$ \$ \$	Quality Control Sample Type			Co	unt		Frequency (%)	
Total Organic Carbon (Non-Purpeatele) by Combustion (Low Level) E305-L 2180761 1 20 5.0 5.0 ✓ Total Prosphorate by Colourmenty (Oldra Prosphorate by Colourmenty (Oldra Prosphorate by Colourmenty (Oldra Prosphorate by Colourmenty (Ultra Trace Level 0.001 mg/L) E378-U 2180755 1 20 5.0 5.0 ✓ Prosphorate by Colourmenty (Ultra Trace Level 0.001 mg/L) E378-U 2179704 2 29 6.9 5.0 ✓ Prosphorate by Colourmenty (Ultra Trace Level 0.001 mg/L) E302 2180213 1 19 5.2 5.0 ✓ Prosphorate by Colourmenty (Oldra Prosphorate by Colourmenty (Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Total Principhorals by Colourimetry (0.002 mg/L)	Laboratory Control Samples (LCS) - Continued							
Dissolved Orthophosphate by Colourmetry (Ultra Trace Level 0.001 mg/L) E378-U 2177894 2 29 6.9 5.0 ✓	Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2180761	1	20	5.0	5.0	✓
Reactive Silica by Colourmetry E392 2180213 1 19 5.2 5.0 ✓ Total Metals in Water by CRC ICPMS E420 2178999 1 20 5.0 5.0 ✓ Total Metals in Water by CRC ICPMS E470 2178999 1 30 7.6 5.0 ✓ Total Metals in Water by CRC ICPMS E470 2178999 1 30 7.6 5.0 ✓ Total Metals in Water by CRC ICPMS E470 2178465 1 13 7.6 5.0 ✓ Total Metals in Water by CRC ICPMS E470 2178465 1 11 9.0 5.0 ✓ Total Collisions and E. coll (Enzyme Substrate) E100 2177467 1 11 9.0 5.0 ✓ Total Collisions and E. coll (Enzyme Substrate) E100 2177900 2 28 7.1 5.0 ✓ Total Metals in Water by IC E121 2176023 1 20 5.0 5.0 ✓ Total Metals in Water by IC E235 NO3 2177891 1 19 5.2 5.0 ✓ Total Metals in Water by IC E235 NO3 2177896 2 37 5.4 5.0 ✓ Total Metals in Water by IC E235 NO3 2177896 2 32 6.2 5.0 ✓ Total Metals in Water by IC E235 NO3 2177897 2 39 5.1 5.0 ✓ Total Metals in Water by IC E235 NO3 2177897 2 39 5.1 5.0 ✓ Total Metals by IC E235 NO3 2177897 2 39 5.1 5.0 ✓ Total Metals by IC E235 NO3 2177897 2 39 5.1 5.0 ✓ Total Metals by IC E235 NO3 2177896 2 37 5.4 5.0 ✓ Total Metals by IC E235 NO3 2177896 2 37 5.4 5.0 ✓ Total Metals by IC E235 NO3 2177991 2 38 5.2 5.0 ✓ Total Metals by IC E235 NO3 2177991 2 38 5.2 5.0 ✓ Total Metals by IC E235 NO3 2177991 2 38 5.2 5.0 ✓ Total Metals by IC E235 NO3 2177991 2 38 5.2 5.0 ✓ Total Metals in Water by IC E235 NO3 2177991 2 38 5.2 5.0 ✓ Total Metals in Water by IC E235 NO3 2177991 2 38 5.2 5.0 ✓ Total Metals in Water by IC E235 NO3 2177991 2 38 5.2 5.0 ✓ Total Metals in Water by IC E235 NO3 2177991 2 38 5.2 5.0 ✓ Total Metals in Water by IC E235 NO3 2177991 2 39 5.1 5.0 ✓ Total Metals in Water by IC E235 NO3 2177999 2 37 5.4 5.0 ✓ To	Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2180755	1	20	5.0	5.0	✓
Total Medias in Water by CRC ICPMS E420 21/8895 1 20 5.0 5.0 √ Chinorophyla by Fluorometry (Support Lab Filtered µg) E6708 21/8455 1 13 7.6 5.0 √ Chinorophyla by Fluorometry (Support Lab Filtered µg) E7708 21/8455 1 13 7.6 5.0 √ Chinorophyla by Fluorometry (Support Lab Filtered µg) E010 21/74670 2 28 7.1 11 9.0 5.0 √ Chinorophyla By E6709 2 28 7.1 5.0 √ Chinorophyla By E6709 2	Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2177904	2	29	6.9	5.0	✓
Chlorophyll-a by Fluorometry (Support Lab Filtered µg)	Reactive Silica by Colourimetry	E392	2180213	1	19	5.2	5.0	✓
Method Blanks (MB) ED10 2176467 1	Total Metals in Water by CRC ICPMS	E420	2178989	1	20	5.0	5.0	✓
Total Collioms and E. coil (Enzyme Substrate)	Chlorophyll-a by Fluorometry (Support Lab Filtered µg)	E870B	2182455	1	13	7.6	5.0	✓
Conductivity in Water	Method Blanks (MB)							
Turbidily by Nephelometry	Total Coliforms and E. coli (Enzyme Substrate)	E010	2176467	1	11	9.0	5.0	✓
E121	Conductivity in Water	E100	2177900	2	28	7.1	5.0	√
E160 2172911 1 19 5.2 5.0 ✓	Turbidity by Nephelometry		2176023	1	20	5.0	5.0	
Chloride in Water by IC E235.Cl 2177898 2 37 5.4 5.0 ✓ Fluoride in Water by IC E235.F 2177895 2 32 6.2 5.0 ✓ Nitrate in Water by IC E235.NO2 2177897 2 39 5.1 5.0 ✓ Nitrate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Nitrate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Sulfate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Sulfate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Sulfate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Ammonia by Fluorescence E298 2180757 1 14 7.1 5.0 ✓ Ammonia by Fluorescence E298 2180757 1 14 7.1 5.0 ✓ Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 ✓ Total Corporation Carbon (Non-Purgeable) by Combustion (Low Level) E335.L 2180761 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (Ultra Trace Level 0.001 mg/L) E372-U 2180755 2180756 22 37 5.4 5.0 ✓ Total Phosphorus by Colourimetry E336 2179166 22 40 50 5.0 5.0 ✓ Total Phosphorus by Colourimetry E337 E440 E440 2177999 2 37 5.4 5.0 ✓ Total Phosphorus by Colourimetry E378-U E378-U E378-U E378-U E378-U E378-U E378-U E378-D E378-D	TSS by Gravimetry		2172911	1	19	5.2	5.0	
Fluoride in Water by IC E235.F 2177895 2 32 6.2 5.0 ✓ Fluoride in Water by IC E235.NO2 2177896 2 39 5.1 5.0 ✓ E235.NO2 2177897 2 39 5.1 5.0 ✓ E235.NO3 2177896 2 40 5.0 5.0 ✓ Sulfate in Water by IC E235.SO4 2177899 2 37 5.4 5.0 ✓ Alkalinity Species by Tittation E290 2177901 2 38 5.2 5.0 ✓ Alkalinity Species by Tittation E290 2180757 1 14 7.1 5.0 ✓ E318 2180753 1 19 5.2 5.0 ✓ Colour (Apparent) by Spectrometer Total (Fighalin Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 ✓ Colour (Apparent) by Spectrometer E330 2179166 1 20 5.0 5.0 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E336-L 2180755 1 2180755 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 ✓ E378-U 2177904 2 29 6.9 5.0 ✓ Chlorophyli-a by Fluorescenty (Ultra Trace Level 0.001 mg/L) E378-U Chlorophyli-a by Fluorometry (Support Lab Filtered µg) E870B 2180757 1 13 7.6 5.0 ✓ Chlorophyli-a by Fluorometry (Support Lab Filtered µg) E870B 2187255 2177898 2 37 5.4 5.0 ✓ Chlorode in Water by IC E235.NO2 2177897 2 39 5.1 5.0 ✓ E335.NO2 2177897 2 37 5.4 5.0 ✓ E335.NO2 2177897 2 39 5.1 5.0 ✓ E335.NO2 2177897 2 39 5.1 5.0 ✓ E335.NO2 2177897 2 39 5.1 5.0 ✓ E335.NO2 2177899 2 37 5.4 5.0 ✓ E335.NO2 2177897 2 39 5.1 5.0 ✓ E335.NO2 2177897 2 39 5.1 5.0 ✓ E335.NO3 2177896 2 37 5.4 5.0 ✓ E335.NO3 2177899 2 37 5.4 5.0 ✓ E335.NO3 2177896 2 37 5.4 5.0 ✓ E335.NO3 2177896 2 37 5.4 5.0 ✓ E335.NO3 E3780761 E3780761 E3780778	TDS by Gravimetry	E162	2180095	1	18	5.5	5.2	✓
Nitrate in Water by IC	Chloride in Water by IC	E235.CI	2177898	2	37	5.4	5.0	√
Nitrate in Water by IC E235 NO3 2177896 2 40 5.0 5.0 ✓ Sulfate in Water by IC E235 SO4 2177899 2 37 5.4 5.0 ✓ Alkalinity Species by Titration E290 21777901 2 38 5.2 5.0 ✓ Ammonia by Fluorescence E298 2180757 1 144 7.1 5.0 ✓ Colour (Apparent) by Spectrometer E318 2180753 1 19 5.2 5.0 ✓ Colour (Apparent) by Spectrometer E330 2179166 1 20 5.0 5.0 ✓ Total Kjeldahi Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E335-L 2180761 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2177904 2 29 6.9 5.0 ✓ Total Metals in Water by Colourimetry (Support Lab Filtered μg) E870B 2182455 1 13 7.6 5.0 ✓ Matrix Spikes (MS) Cloride in Water by IC E235 NO2 2177896 2 37 5.4 5.0 ✓ Matrix Spikes (MS) Cloride in Water by IC E235 NO2 2177896 2 37 5.4 5.0 ✓ Matrix Spikes (MS) Cloride in Water by IC E235 NO2 2177896 2 37 5.4 5.0 ✓ Ammonia by Fluorescence E298 2180753 1 19 5.2 5.0 ✓ Ammonia by Fluorescence (Low Level) E356-L 2180765 1 19 5.0 5.0 ✓ Ammonia by Fluorescence (Low Level) E356-L 2180765 1 19 5.0 5.0 ✓ Ammonia by Fluorescence (Low Level) E356-L 2180765 1 19 5.0 5.0 ✓ Ammonia by Fluorescence E298 2180753 1 19 5.2 5.0 ✓ Ammonia by Fluorescence (Low Level) E356-L 2180766 1 19 5.0 5.0 ✓ Ammonia by Fluorescence E298 2180753 1 19 5.2 5.0 ✓ Total Relation Water by IC E356-L 2180766 1 19 5.0 5.0 ✓ Total Relation Water by IC E357-D E358-D 2177896 2 37 5.4 5.0 ✓ Ammonia by Fluorescence E298 2180753 1 19 5.2 5.0 ✓ Total Phosphorus by Colourimetry (Do20 mg/L) E378-U 2180755 1 19 5.0 5.0 5.0 ✓ Total Phosphorus by Colourimetry (Do20 mg/L) E378-U 2180755 1 19 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.	Fluoride in Water by IC	E235.F	2177895	2	32	6.2	5.0	√
Sulfate in Water by IC E235.SQ4 2177899 2 37 5.4 5.0 ✓ Alkalinity Species by Titration E290 2177901 2 38 5.2 5.0 ✓ Alkalinity Species by Titration E290 2177901 2 38 5.2 5.0 ✓ Total Kjeldah Nitrogen by Fluorescence (Low Level) E318 2180757 1 14 7.1 5.0 ✓ Colour (Apparent) by Spectrometer E330 2179166 1 20 5.0 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 ✓ Total Organic Orthophosphate by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry E3392 2180213 1 19 5.2 5.0 ✓ Total Alexalis in Water by CRC ICPMS E420 2178989 1 20 5.0 5.0 ✓ Matrix Spikes (MS) Chloride in Water by IC E235.Cl E235.Cl E235.NO2 2177895 2 37 5.4 5.0 ✓ Total Mater by IC E235.NO2 2177896 2 37 5.4 5.0 ✓ Total Mater by IC E235.NO2 2177897 2 39 5.1 5.0 ✓ Ammonia by Fluorescence (Low Level) E235.NO2 2177899 2 37 5.4 5.0 ✓ Ammonia by Fluorescence (Low Level) E235.NO2 2177899 2 37 5.4 5.0 ✓ Ammonia by Fluorescence (Low Level) E235.NO2 2177897 2 39 5.1 5.0 ✓ Ammonia by Fluorescence (Low Level) E235.NO2 2177899 2 37 5.4 5.0 ✓ Ammonia by Fluorescence (Low Level) E235.NO2 2177899 2 37 5.4 5.0 ✓ Ammonia by Fluorescence (Low Level) E338 2180757 1 14 7.1 7.1 7.0 7.0 7.0 7.0 7.0 7.0	Nitrite in Water by IC	E235.NO2	2177897	2	39	5.1	5.0	✓
Alkalinity Species by Titration E290 2177901 2 38 5.2 5.0 ✓ Anmonal by Fluorescence E298 2180757 1 14 7.1 5.0 ✓ Colour (Apparent) by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 ✓ Colour (Apparent) by Spectrometer E330 2179166 1 20 5.0 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E372-U 2180755 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (Logo mg/L) E372-U 2180755 1 20 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E330 E372-U 2180755 1 20 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E330 E372-U 2180755 1 20 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E372-U 2180755 1 20 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E372-U 2180755 1 20 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E330 E372-U 2180755 1 20 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E372-U 2180755 1 20 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E330 E372-U 2180755 1 2177904 2 29 6.9 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E372-U 2180755 1 2177904 2 29 6.9 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E372-U 2180755 1 2177904 2 29 6.9 5.0 5.0 ✓ Colour (Apparent) by Spectrometer E372-U 2180755 1 20 5.0 5.0 ✓ Colour (Apparent) by Colourimetry (Support Lab Filtered µg) E372-U E372-U	Nitrate in Water by IC	E235.NO3	2177896	2	40	5.0	5.0	✓
Ammonia by Fluorescence E298 2180757 1 14 7.1 5.0 √ Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 √ Colour (Apparent) by Spectrometer E330 2179166 1 20 5.0 5.0 √ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L E330 2180761 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L) E378-U 2180765 1 20 5.0 5.0 √ Reactive Silica by Colourimetry E392 2180213 1 19 5.2 5.0 √ Total Matals in Water by CRC ICPMS E420 2178989 2182455 1 3 7.6 5.0 √ Matrix Spikes (MS) Chlorophyll-a by Fluoremetry (Support Lab Filtered μg) E235.CI E235.CI 2177895 2 32 6.2 5.0 √ Nifrice in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrice in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrice in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrice in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrice in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrice in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrice in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrice in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrice in Water by IC E235.NO3 2177896 2 37 5.4 5.0 √ Ammonia by Fluorescence E298 2180753 1 14 7.1 5.0 √ Ammonia by Fluorescence E298 2180753 1 19 5.2 5.0 √ Total Myelanh Nitrogen by Fluorescence (Low Level) E318 2180753 1 10 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L)	Sulfate in Water by IC	E235.SO4	2177899	2	37	5.4	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 √ Colour (Apparent) by Spectrometer E330 2179166 1 20 5.0 5.0 √ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2180755 1 20 5.0 5.0 √ Total Metals in Water by CRC ICPMS E420 2178989 1 20 5.0 5.0 √ Total Metals in Water by IC E235.Cl 2177898 2 37 5.4 5.0 √ Total Metar by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrale in Water by IC E235.NO2 2177896 2 40 5.0 5.0 √ Nitrale in Water by IC E235.NO3 2177896 2 40 5.0 5.0 √ Ammonia by Fluorescence E238. Sod4 2177899 2 37 5.4 5.0 √ Ammonia by Fluorescence E238 2180757 1 14 7.1 5.0 √ Ammonia by Fluorescence (Low Level) E336-L 2180761 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (Low Level) E335-L 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (Low Level) E335-L 2180765 1 20 5.0 5.0 5.0 √ 5.0 √ 5.0 √ 5.0 √ 5.0 √ 5.0 √ 5.0 √ 5.0 √ 5.0 5.0	Alkalinity Species by Titration	E290	2177901	2	38	5.2	5.0	✓
Colour (Apparent) by Spectrometer E330 2179166 1 20 5.0 5.0 √ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2180755 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2180755 1 20 5.0 5.0 √ Total Metals in Water by Colourimetry E3392 2180213 1 19 5.2 5.0 √ Total Metals in Water by Colourimetry E392 2180213 1 19 5.2 5.0 √ Total Metals in Water by Colourimetry E392 2180213 1 19 5.2 5.0 √ Total Metals in Water by Colourimetry E398 2177898 2 37 5.4 5.0 √ Total Metals in Water by IC E235.NO2 2177897 2 39 5.1 5.0 √ Nitrate in Water by IC E235.NO3 2177896 2 37 5.4 5.0 √ Nitrate in Water by IC E235.NO3 2177896 2 37 5.4 5.0 √ Sulfate in Water by IC E235.NO3 2177899 2 37 5.4 5.0 √ Sulfate in Water by IC E235.NO3 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E235.NO3 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E235.NO3 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E235.NO3 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E235.NO3 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E335.NO3 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E335.NO4 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E345.Cl E235.NO3 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E335.NO4 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E335.NO4 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E335.NO4 2177899 2 37 5.4 5.0 √ Total Metals in Water by IC E345.Cl E2480757 1 14 7.1 5.0 7.1 Total Metals in Water by IC E345.Cl E2480761 1 1 20 5.0 5.0 5.0 7 Total Metals in Water by IC E345.Cl E2480761 1 1 20 5.0	Ammonia by Fluorescence	E298	2180757	1	14	7.1	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U E378-U 2180755 1 20 5.0 5.0 √ Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2177904 2 29 6.9 5.0 √ Reactive Silica by Colourimetry E392 2180213 1 19 5.2 5.0 √ Total Metals in Water by CRC ICPMS E420 2178989 1 20 5.0 5.0 √ Total Metals in Water by CRC ICPMS E8708 2182455 1 13 7.6 5.0 √ Matrix Spikes (MS) Chlorophyll-a by Fluorometry (Support Lab Filtered μg) E235.Cl E235.Cl 2177898 2 37 5.4 5.0 √ Fluoride in Water by IC E235.RO2 2177897 2 39 5.1 5.0 √ Nitrate in Water by IC E235.NO2 2177896 2 37 5.4 5.0 √ Nitrate in Water by IC E235.NO3 2177896 2 39 5.1 5.0 √ Nitrate in Water by IC E235.NO3 2177899 2 37 5.4 5.0 √ Notifate in Water by IC E235.SO4 2177899 2 37 5.4 5.0 √ Notifate in Water by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E318 2180757 1 10 10 10 10 10 10 10 10 10	Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2180753	1	19	5.2	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 √ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U E378-U 2180755 1 20 5.0 5.0 √ Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2177904 2 29 6.9 5.0 √ Reactive Silica by Colourimetry E392 2180213 1 19 5.2 5.0 √ Total Metals in Water by CRC ICPMS E420 2178989 1 20 5.0 5.0 √ Total Metals in Water by CRC ICPMS E8708 2182455 1 13 7.6 5.0 √ Matrix Spikes (MS) Chlorophyll-a by Fluorometry (Support Lab Filtered μg) E235.Cl E235.Cl 2177898 2 37 5.4 5.0 √ Fluoride in Water by IC E235.RO2 2177897 2 39 5.1 5.0 √ Nitrate in Water by IC E235.NO2 2177896 2 37 5.4 5.0 √ Nitrate in Water by IC E235.NO3 2177896 2 39 5.1 5.0 √ Nitrate in Water by IC E235.NO3 2177899 2 37 5.4 5.0 √ Notifate in Water by IC E235.SO4 2177899 2 37 5.4 5.0 √ Notifate in Water by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E235.SO4 2177899 2 37 5.4 5.0 √ Total Meter by IC E318 2180757 1 10 10 10 10 10 10 10 10 10	Colour (Apparent) by Spectrometer	E330	2179166	1	20	5.0	5.0	✓
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2177904 2 29 6.9 5.0 ✓ Reactive Silica by Colourimetry E392 2180213 1 19 5.2 5.0 ✓ Total Metals in Water by CRC ICPMS E420 2178989 1 20 5.0 5.0 ✓ Chlorophyll-a by Fluorometry (Support Lab Filtered μg) E870B 2182455 1 13 7.6 5.0 ✓ Matrix Spikes (MS) Chloride in Water by IC E235.Cl E235.F 2177898 2 37 5.4 5.0 ✓ Fluoride in Water by IC E235.NO2 2177897 2 39 5.1 5.0 ✓ Nitrate in Water by IC E235.NO3 2177897 2 39 5.1 5.0 ✓ Nitrate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Sulfate in Water by IC E235.SO4 Ammonia by Fluorescence E298 2180757 1 14 7.1 5.0 ✓ Total Kjeldahl Nitrogen by Fluorescence (Low Level) E355-L E372-U 2180755 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L)	Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2180761	1	20	5.0	5.0	
Reactive Silica by Colourimetry E392 2180213 1 19 5.2 5.0 ✓ Total Metals in Water by CRC ICPMS E420 2178989 1 20 5.0 5.0 ✓ Chlorophyll-a by Fluorometry (Support Lab Filtered μg) E870B 2182455 1 13 7.6 5.0 ✓ Matrix Spikes (MS) Chloride in Water by IC E235.Cl 2177898 2 37 54 5.0 ✓ Fluoride in Water by IC E235.NO2 177895 2 32 6.2 5.0 ✓ Nitrate in Water by IC E235.NO2 2177897 2 39 5.1 5.0 ✓ Nitrate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Number of the water of	Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2180755	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS E420 E420 E870B E420 E870B E420 E870B E420 E870B E870	Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2177904	2	29	6.9	5.0	✓
E870B 2182455 1 13 7.6 5.0 ✓	Reactive Silica by Colourimetry	E392	2180213	1	19	5.2	5.0	✓
Chlorophyll-a by Fluorometry (Support Lab Filtered μg) E870B 2182455 1 13 7.6 5.0 ✓ Matrix Spikes (MS) Chloride in Water by IC E235.Cl 2177898 2 37 5.4 5.0 ✓ Fluoride in Water by IC E235.F 2177895 2 32 6.2 5.0 ✓ Nitrate in Water by IC E235.NO2 2177897 2 39 5.1 5.0 ✓ Sulfate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Sulfate in Water by IC E235.SO4 2177899 2 37 5.4 5.0 ✓ Ammonia by Fluorescence E298 2180757 1 14 7.1 5.0 ✓ Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2180763 1 19 5.2 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0	Total Metals in Water by CRC ICPMS	E420	2178989	1	20	5.0	5.0	✓
Chloride in Water by IC E235.CI 2177898 2 37 5.4 5.0 ✓ Fluoride in Water by IC E235.F 2177895 2 32 6.2 5.0 ✓ Nitrate in Water by IC E235.NO2 2177897 2 39 5.1 5.0 ✓ Sulfate in Water by IC E235.NO3 2177896 2 40 5.0 5.0 ✓ Sulfate in Water by IC E235.SO4 2177899 2 37 5.4 5.0 ✓ Ammonia by Fluorescence E298 2180757 1 14 7.1 5.0 ✓ Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 5.0 ✓	Chlorophyll-a by Fluorometry (Support Lab Filtered µg)	E870B	2182455	1	13	7.6	5.0	✓
Fluoride in Water by IC E235.F 2177895 2 32 6.2 5.0 ✓ Nitrite in Water by IC Nitrite in Water by IC E235.NO2 E235.NO2 E235.NO2 E235.NO3 E235.NO3 E235.NO3 E235.NO3 E235.SO4 E235.SO4 E235.SO4 E235.SO4 E236.SO4 E237.SO4 E237.SO4 E238 E238 E238 E238 E338	Matrix Spikes (MS)							
Nitrite in Water by IC E235.NO2 E235.NO2 E235.NO3 E236.NO3 E237.NO3 E	Chloride in Water by IC	E235.CI	2177898	2	37	5.4	5.0	✓
Nitrate in Water by IC Sulfate in Water by IC Sulfate in Water by IC Sulfate in Water by IC E235.NO3 E235.SO4 E235.SO4 E235.SO4 E236.SO4 E236.SO4 E236.SO4 E237.SO4 E237.SO4 E237.SO4 E238 E238 E238 E238 E238 E338 E	Fluoride in Water by IC	E235.F	2177895	2	32	6.2	5.0	✓
Sulfate in Water by IC Ammonia by Fluorescence E235.SO4 E298 2180757 1 14 7.1 5.0 ✓ Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L)	Nitrite in Water by IC	E235.NO2	2177897	2	39	5.1	5.0	✓
Ammonia by Fluorescence E298 2180757 1 14 7.1 5.0 ✓ Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 ✓	Nitrate in Water by IC	E235.NO3	2177896	2	40	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2180753 1 19 5.2 5.0 ✓ Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 ✓	Sulfate in Water by IC	E235.SO4	2177899	2	37	5.4	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2180761 1 20 5.0 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0 ✓	Ammonia by Fluorescence	E298	2180757	1	14	7.1	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2180755 1 20 5.0 5.0	Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2180753	1	19	5.2	5.0	✓
	Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2180761	1	20	5.0	5.0	✓
	Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2180755	1	20	5.0	5.0	✓
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2177904 2 29 6.9 5.0 ✓	Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2177904	2	29	6.9	5.0	✓
Reactive Silica by Colourimetry E392 2180213 1 19 5.2 5.0 √	Reactive Silica by Colourimetry	E392	2180213	1	19	5.2	5.0	✓

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 Project
 :
 CA0050657.1254



Matrix: Water Evaluation: × = QC frequency outside specification; √ = QC frequency within specification.

Madrix. Water		LValuation	QO II cque	noy outside spe	cincation, · - c	to including with	min specimeation.
Quality Control Sample Type			Co	Frequency (%)	(%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Matrix Spikes (MS) - Continued							
Total Metals in Water by CRC ICPMS	E420	2178989	1	20	5.0	5.0	✓

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 Project
 ;
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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
Total Coliforms and E. coli (Enzyme Substrate)	E010	Water	APHA 9223 (mod)	The enzyme substrate test simultaneously detects Total Coliforms and E. coli in a 100
				mL sample after incubation at 35.0 ±0.5°C for either 18 or 24 hours (dependent on
	ALS Environmental -			reagent used).
	Halifax			
Conductivity in Water	E100	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
	ALS Environmental -			sample. Conductivity measurements are temperature-compensated to 25°C.
-II by Maka	Waterloo	147-4	A DULA 4500 LL (
pH by Meter	E108	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,
	ALS Environmental -			pH should be measured in the field within the recommended 15 minute hold time.
	Halifax			
Turbidity by Nephelometry	E121	Water	APHA 2130 B (mod)	Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.
	ALS Environmental -			Scatter under defined conditions.
	Waterloo			
TSS by Gravimetry	E160	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
	ALS Environmental -			filtered solids. Samples containing very high dissolved solid content (i.e. seawaters,
	Halifax			brackish waters) may produce a positive bias by this method. Alternate analysis
				methods are available for these types of samples.
TDS by Gravimetry	E162	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,
	ALS Environmental -			with gravimetric measurement of the residue.
	Halifax			
Chloride in Water by IC	E235.CI	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV
				detection.
	ALS Environmental -			
	Waterloo			
Fluoride in Water by IC	E235.F	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV
				detection.
	ALS Environmental -			
	Waterloo			
Nitrite in Water by IC	E235.NO2	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV
				detection.
	ALS Environmental -			
	Waterloo			

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Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Nitrate in Water by IC	E235.NO3	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
	ALS Environmental - Waterloo			
Sulfate in Water by IC	E235.SO4	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
	ALS Environmental - Waterloo			
Alkalinity Species by Titration	E290	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
	ALS Environmental - Waterloo			alkalinity values.
Ammonia by Fluorescence	E298	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).
	ALS Environmental - Waterloo			This method is approved under US EPA 40 CFR Part 136 (May 2021)
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	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).
	ALS Environmental - Waterloo			This method is approved under US EPA 40 CFR Part 136 (May 2021).
Colour (Apparent) by Spectrometer	E330	Water	APHA 2120 C (mod)	Colour (Apparent) is measured in an unfiltered sample spectrophotometrically using the single wavelength method. The colour contribution of settleable solids are not included
	ALS Environmental - Waterloo			in the result. This method is intended for potable waters.
				Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment.
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	Water	APHA 5310 B (mod)	Total Organic Carbon (Non-Purgeable), also known as NPOC (total), is a direct measurement of TOC after an acidified sample has been purged to remove
	ALS Environmental - Waterloo			carbonate-based Inorganic Carbon (IC). Analysis is by high temperature combustion
	waterioo			with infrared detection of CO2. Forms of carbon associated with inorganic or organic molecules (e.g. SCN and CN) are included in NPOC if they are not removed by purging
				under acidic conditions. Notably, NPOC excludes most volatile organic compounds and free cyanide. For samples where the majority of Total Carbon is inorganic, this method
				provides greater accuracy and reliability versus the TOC by subtraction method (TC minus TIC).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
mg/L)	ALS Environmental -			persuitate digestion of the sample.
Dissolved Orthophosphate by Colourimetry	Waterloo E378-U	Water	APHA 4500-P F (mod)	Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab
(Ultra Trace Level 0.001 mg/L)	ALS Environmental -			or field filtered through a 0.45 micron membrane filter.
	Waterloo			Field filtration is recommended to ensure test results represent conditions at time of sampling.

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Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Reactive Silica by Colourimetry	E392 ALS Environmental -	Water	APHA 4500-SiO2 E (mod)	Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method using a discrete analyzer. Method Limitation: Arsenic (5+) above 100 mg/L is a negative interference on this test
	Winnipeg			
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Waterloo	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered
				by this method.
Chlorophyll-a by Fluorometry (Support Lab Filtered µg)	E870B ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll-a is determined by solvent extraction followed with analysis by fluorometry using the non-acidification procedure. Sampling volume not provided by client.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Waterloo	Water	APHA 2340B	"Hardness (as CaCO3), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO3 equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.
Ion Balance using Total Metals	EC101A ALS Environmental - Waterloo	Water	APHA 1030E	Cation Sum (using total metals), Anion Sum, and Ion Balance are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Minor ions are included where data is present. Ion Balance cannot be calculated accurately for waters with very low electrical conductivity (EC).
Saturation Index using Laboratory pH (Ca-T)	EC105A ALS Environmental - Waterloo	Water	APHA 2330B	Langelier Index provides an indication of scale formation potential at a given pH and temperature, and is calculated as per APHA 2330B Saturation Index. Positive values indicate oversaturation with respect to CaCO3. Negative values indicate undersaturation of CaCO3. This calculation uses laboratory pH measurements and provides estimates of Langelier Index at temperatures of 4, 15, 20, 25, 66, and 77°C. Ryznar Stability Index is an alternative index used for scale formation and corrosion potential.
Nitrate and Nitrite (as N) (Calculation)	EC235.N+N ALS Environmental - Waterloo	Water	EPA 300.0	Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).
Total Silicon as Silica (Calculation)	EC420.SiO2 ALS Environmental - Waterloo	Water	N/A	Total Silicon (as SiO2) is a calculated parameter. Total Silicon (as SiO2 mg/L) = $2.139 x$ Total Silicon (mg/L).
Chlorophyll-a by Fluorometry (Support Lab Filtered µg/L)	EC870B ALS Environmental - Winnipeg	Water	CALC	Convert results to sample concentration based on support lab filter information.

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Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chlorophyll-a Filtration by Support Laboratory	EF870B	Water	EPA 445.0 (mod)	Filtration for chlorophyll-a analysis
	ALS Environmental -			
	Halifax			
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
	ALO Series estat			
	ALS Environmental - Waterloo			
Digestion for TKN in water	EP318	Water	APHA 4500-Norg D	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst,
			(mod)	which converts organic nitrogen sources to Ammonia, which is then quantified by the
	ALS Environmental -			analytical method as TKN. This method is unsuitable for samples containing high levels
	Waterloo			of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be
				biased low.
Preparation for Total Organic Carbon by Combustion	EP355	Water		Preparation for Total Organic Carbon by Combustion
Combustion	ALS Environmental -			
	Waterloo			
Digestion for Total Phosphorus in water	EP372	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
	ALS Environmental -			
	Waterloo			
Chlorophyll-a Extraction (Support Lab Filtered)	EP870B	Water	EPA 445.0 (mod)	Chlorophyll-a solvent extraction.
	ALS Environmental -			
	Winnipeg			

ALS Canada Ltd.



QUALITY CONTROL REPORT

Work Order :HA2503218

WSP Canada Inc. Client Laboratory Naomi Giles Contact

Address : 1 Spectacle Lake Drive

Dartmouth NS Canada B3B 1X7

Telephone

Project CA0050657.1254 P115454CA001 PO

C-O-C number Sampler :Client Site

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No. of samples received : 5 No. of samples analysed : 5 Page : 1 of 13

: ALS Environmental - Halifax

Account Manager : Amanda Overholster Address

Dartmouth, Nova Scotia Canada B3B 1L2

: 13-100 Wright Ave

Telephone :1 416 817 2944

Date Samples Received :20-Aug-2025 13:30

Date Analysis Commenced :20-Aug-2025

Issue Date :28-Aug-2025 14:54

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	
Jiaxi Wang	Supervisor - Water Chemistry	Halifax Inorganics, Dartmouth, Nova Scotia	
Jiaxi Wang	Supervisor - Water Chemistry	Halifax Microbiology, Dartmouth, Nova Scotia	
Jon Fisher	Laboratory Manager - Environmental	Waterloo Inorganics, Waterloo, Ontario	
Kevin Baxter	Supervisor - Inorganic	Winnipeg Inorganics, Winnipeg, Manitoba	
Lee McTavish		Winnipeg Inorganics, Winnipeg, Manitoba	
Robyn MacCormack	Analyst	Halifax Administration, Dartmouth, Nova Scotia	
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario	
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario	

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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.

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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	<u> </u>										
HA2503197-001	Anonymous	Solids, total suspended [TSS]		E160	3.0	mg/L	13.2	9.8	3.4	Diff <2x LOR	
Physical Tests (QC	Lot: 2175442)										
HA2502940-001	Anonymous	pH		E108	0.10	pH units	6.29	6.32	0.460%	4%	
Physical Tests (QC	Lot: 2176023)										
HA2503218-001	PML-2	Turbidity		E121	0.10	NTU	0.38	0.40	0.02	Diff <2x LOR	
Physical Tests (QC	Lot: 2177900)										
HA2503203-001	Anonymous	Conductivity		E100	1.0	μS/cm	542	535	1.30%	10%	
Physical Tests (QC	Lot: 2177901)										
HA2503203-001	Anonymous	Alkalinity, total (as CaCO3)		E290	1.0	mg/L	207	207	0.0676%	20%	
Physical Tests (QC	Lot: 2178378)										
HA2503264-001	Anonymous	Conductivity		E100	1.0	μS/cm	49.5	49.4	0.202%	10%	
Physical Tests (QC	Lot: 2178379)										
HA2503264-001	Anonymous	Alkalinity, total (as CaCO3)		E290	1.0	mg/L	3.0	3.0	0.08	Diff <2x LOR	
Physical Tests (QC	Lot: 2179166)										
HA2503154-001	Anonymous	Colour, apparent		E330	2.0	CU	148	148	0.463%	20%	
Physical Tests (QC	Lot: 2180095)										
HA2503205-005	Anonymous	Solids, total dissolved [TDS]		E162	20	mg/L	292	308	5.34%	20%	
Anions and Nutrient	s (QC Lot: 2177895)										
HA2503203-001	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.117	0.110	0.006	Diff <2x LOR	
Anions and Nutrient	s (QC Lot: 2177896)										
HA2503203-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	0.055	0.051	0.004	Diff <2x LOR	
Anions and Nutrient	s (QC Lot: 2177897)										
HA2503203-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	
Anions and Nutrient	s (QC Lot: 2177898)										
HA2503203-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	6.06	5.84	3.80%	20%	
Anions and Nutrient	s (QC Lot: 2177899)										
HA2503203-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	55.3	55.2	0.229%	20%	
Anions and Nutrient	s (QC Lot: 2177904)										
HA2503203-001	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0010	mg/L	0.0046	0.0044	0.0001	Diff <2x LOR	
Anione and Mutrient	s (QC Lot: 2178371)										

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Anions and Nutrients (QC Lot: 2178371) - continued HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 Anions and Nutrients (QC Lot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F Anions and Nutrients (QC Lot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 Anions and Nutrients (QC Lot: 2178374)							Labora	tory Duplicate (D	UP) Report		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifie
		ontinued									
HA2503218-001	PML-2	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	0.026	0.026	0.0004	Diff <2x LOR	
	ts (QC Lot: 2178372)										
HA2503218-001	PML-2	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.043	0.043	0.0003	Diff <2x LOR	
Anions and Nutrien	ts (QC Lot: 2178373)										
HA2503218-001	PML-2	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	
Anions and Nutrien	ts (QC Lot: 2178374)										
HA2503218-001	PML-2	Chloride	16887-00-6	E235.Cl	0.50	mg/L	113	114	0.546%	20%	
Anions and Nutrien	ts (QC Lot: 2178375)										
HA2503218-001	PML-2	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	10.8	10.8	0.250%	20%	
Anions and Nutrien	ts (QC Lot: 2178377)										
HA2502313-001	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0010	mg/L	0.0063	0.0063	0.00001	Diff <2x LOR	
Anions and Nutrien	ts (QC Lot: 2180213)										
HA2503218-001	PML-2	Silicate (as SiO2)	7631-86-9	E392	0.50	mg/L	0.81	0.82	0.01	Diff <2x LOR	
Anions and Nutrien	ts (QC Lot: 2180753)										
HA2503218-002	KL-6	Kjeldahl nitrogen, total [TKN]	_	E318	0.050	mg/L	0.198	0.206	0.008	Diff <2x LOR	
Anions and Nutrien	ts (QC Lot: 2180755)										
HA2503218-001	PML-2	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0035	0.0032	0.0003	Diff <2x LOR	
Anions and Nutrien	ts (QC Lot: 2180757)										
HA2502313-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0424	0.0419	0.0005	Diff <2x LOR	
Organic / Inorganic	Carbon (QC Lot: 218076	51)									
HA2503218-001	PML-2	Carbon, total organic [TOC]		E355-L	0.50	mg/L	4.37	4.43	0.06	Diff <2x LOR	
Microbiological Tes	sts (QC Lot: 2176467)										
HA2502309-001	Anonymous	Coliforms, Escherichia coli [E. coli]		E010	1	MPN/100mL	12	4	98.8%	65%	DUPM
		Coliforms, total		E010	1	MPN/100mL	411	308	28.7%	65%	
Total Metals (QC Lo	ot: 2178989)										
HA2503218-001	PML-2	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0120	0.0120	0.000003	Diff <2x LOR	
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00028	0.00027	0.00001	Diff <2x LOR	
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0238	0.0240	1.10%	20%	
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	-
		Boron, total	7440-42-8	E420	0.010	mg/L	0.010	0.010	0.0002	Diff <2x LOR	
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	0.0000064	0.0000014	Diff <2x LOR	
		Calcium, total	7440-70-2	E420	0.050	mg/L	13.9	13.9	0.175%	20%	
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	

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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	
	ot: 2178989) - continued											
HA2503218-001	PML-2	Cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR		
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00074	0.00074	0.000006	Diff <2x LOR		
		Iron, total	7439-89-6	E420	0.010	mg/L	0.103	0.102	0.619%	20%		
		Lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR		
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	2.13	2.11	0.927%	20%		
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0809	0.0810	0.146%	20%		
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.000181	0.000177	0.000004	Diff <2x LOR		
		Nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	< 0.00050	0	Diff <2x LOR		
		Potassium, total	7440-09-7	E420	0.050	mg/L	1.58	1.58	0.236%	20%		
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000062	0.000061	0.0000005	Diff <2x LOR		
		Silicon, total	7440-21-3	E420	0.10	mg/L	0.43	0.42	0.002	Diff <2x LOR		
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR		
		Sodium, total	7440-23-5	E420	0.050	mg/L	65.3	64.5	1.16%	20%		
		Strontium, total	7440-24-6	E420	0.00020	mg/L	0.0617	0.0612	0.910%	20%		
		Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR		
		Tin, total	7440-31-5	E420	0.00010	mg/L	0.00117	0.00117	0.171%	20%		
		Titanium, total	7440-32-6	E420	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR		
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000013	0.000013	0.0000004	Diff <2x LOR		
		Vanadium, total	7440-62-2	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR		
		Zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR		

Qualifiers

Qualifier Description

DUPM MPN duplicate results were outside default ALS Data Quality Objective, but within 95% confidence interval for MPN reference method. Sample results are

reliable.

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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: 2172911)					
Solids, total suspended [TSS]	E160	3	mg/L	<3.0	
hysical Tests (QCLot: 2176023)					
Turbidity	E121	0.1	NTU	<0.10	
hysical Tests (QCLot: 2177900)					
Conductivity	E100	1	μS/cm	1.1	
hysical Tests (QCLot: 2177901)					
Alkalinity, total (as CaCO3)	E290	1	mg/L	<1.0	_
hysical Tests (QCLot: 2178378)					
Conductivity	E100	1	μS/cm	# 2.6	В
hysical Tests (QCLot: 2178379)					
Alkalinity, total (as CaCO3)	E290	1	mg/L	<1.0	
hysical Tests (QCLot: 2179166)					
Colour, apparent	E330	2	CU	<2.0	
hysical Tests (QCLot: 2180095)					
Solids, total dissolved [TDS]	E162	10	mg/L	<10	
nions and Nutrients (QCLot: 2177895)					
Fluoride	16984-48-8 E235.F	0.02	mg/L	<0.020	
nions and Nutrients (QCLot: 2177896)					
Nitrate (as N)	14797-55-8 E235.NO3	0.02	mg/L	<0.020	
nions and Nutrients (QCLot: 2177897)					
Nitrite (as N)	14797-65-0 E235.NO2	0.01	mg/L	<0.010	
nions and Nutrients (QCLot: 2177898)					
Chloride	16887-00-6 E235.CI	0.5	mg/L	<0.50	
nions and Nutrients (QCLot: 2177899)					
Sulfate (as SO4)	14808-79-8 E235.SO4	0.3	mg/L	<0.30	_
nions and Nutrients (QCLot: 2177904)					
Phosphate, ortho-, dissolved (as P)	14265-44-2 E378-U	0.001	mg/L	<0.0010	_
nions and Nutrients (QCLot: 2178371)					
Nitrate (as N)	14797-55-8 E235.NO3	0.02	mg/L	<0.020	_
nions and Nutrients (QCLot: 2178372)					
Fluoride	16984-48-8 E235.F	0.02	mg/L	<0.020	
nions and Nutrients (QCLot: 2178373)					

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Sub-Matrix: Water

Sub-Matrix: Water	24241		100			0 !
Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
nions and Nutrients (QCLot: 2178373		E225 NO2	0.64		40.040	
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	_
Anions and Nutrients (QCLot: 2178374						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	
Anions and Nutrients (QCLot: 2178375						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	
Anions and Nutrients (QCLot: 2178377)						
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.001	mg/L	<0.0010	
Anions and Nutrients (QCLot: 2180213))					
Silicate (as SiO2)	7631-86-9	E392	0.5	mg/L	<0.50	
Anions and Nutrients (QCLot: 2180753)						
Kjeldahl nitrogen, total [TKN]		E318	0.05	mg/L	<0.050	
Anions and Nutrients (QCLot: 2180755)					
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	_
Anions and Nutrients (QCLot: 2180757)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	
Organic / Inorganic Carbon (QCLot: 21	80761)					
Carbon, total organic [TOC]		E355-L	0.5	mg/L	<0.50	
Microbiological Tests (QCLot: 2176467)					
Coliforms, Escherichia coli [E. coli]		E010	1	MPN/100mL	<1	_
Coliforms, total		E010	1	MPN/100mL	<1	
otal Metals (QCLot: 2178989)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	_
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.000050	
Calcium, total	7440-70-2		0.05	mg/L	<0.050	
Chromium, total	7440-47-3		0.0005	mg/L	<0.00050	
Cobalt, total	7440-48-4		0.0001	mg/L	<0.00010	
Copper, total	7440-50-8		0.0005	mg/L	<0.00050	
Iron, total	7439-89-6		0.003	mg/L	<0.010	
	7439-92-1		0.0005		<0.00050	
Lead, total				mg/L		_
Magnesium, total	7439-95-4	E42U	0.005	mg/L	<0.0050	

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Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 2178989) - co	ntinued					
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	
Silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	
Strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	
Thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	
Vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	
Plant Pigments (QCLot: 2182455)						
Chlorophyll a	479-61-8	E870B	0.002	μg/sample	<0.0020	

Qualifiers

Qualifier Description

B Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.

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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: 2172911) Solids, total suspended [TSS]	— E160	3	mg/L	150 mg/L	99.3	85.0	115	_
Physical Tests (QCLot: 2175442) pH	E108		pH units	7 pH units	101	98.0	102	_
Physical Tests (QCLot: 2176023) Turbidity	— E121	0.1	NTU	200 NTU	101	85.0	115	_
Physical Tests (QCLot: 2177900) Conductivity	— E100	1	μS/cm	1410 μS/cm	104	90.0	110	_
Physical Tests (QCLot: 2177901) Alkalinity, total (as CaCO3)	— E290	1	mg/L	150 mg/L	101	85.0	115	_
Physical Tests (QCLot: 2178378) Conductivity	— E100	1	μS/cm	1410 μS/cm	103	90.0	110	_
Physical Tests (QCLot: 2178379) Alkalinity, total (as CaCO3)	— E290	1	mg/L	150 mg/L	103	85.0	115	_
Physical Tests (QCLot: 2179166) Colour, apparent	— E330	2	CU	25 CU	95.6	85.0	115	_
Physical Tests (QCLot: 2180095) Solids, total dissolved [TDS]	— E162	10	mg/L	1000 mg/L	97.0	85.0	115	_
Anions and Nutrients (QCLot: 2177895) Fluoride	16984-48-8 E235.F	0.02	mg/L	1 mg/L	102	90.0	110	-
Anions and Nutrients (QCLot: 2177896) Nitrate (as N)	14797-55-8 E235.NO3	0.02	mg/L	2.5 mg/L	99.4	90.0	110	
Anions and Nutrients (QCLot: 2177897) Nitrite (as N)	14797-65-0 E235.NO2	0.01	mg/L	0.5 mg/L	99.5	90.0	110	_
Anions and Nutrients (QCLot: 2177898) Chloride	16887-00-6 E235.Cl	0.5	mg/L	100 mg/L	99.7	90.0	110	_
Anions and Nutrients (QCLot: 2177899) Sulfate (as SO4)	14808-79-8 E235.SO4	0.3	mg/L	100 mg/L	98.6	90.0	110	_
Anions and Nutrients (QCLot: 2177904) Phosphate, ortho-, dissolved (as P)	14265-44-2 E378-U	0.001	mg/L	0.05 mg/L	100	80.0	120	_
Anions and Nutrients (QCLot: 2178371) Nitrate (as N)	14797-55-8 E235.NO3	0.02	mg/L	2.5 mg/L	99.2	90.0	110	

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Sub-Matrix: Water						Laboratory Co	ontrol Sample (LCS)	Report	
					Spike	Recovery (%)	Recovery	Limits (%)	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 2178372)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	102	90.0	110	_
Anions and Nutrients (QCLot: 2178373)	4.4707.05.0	Eggs NO3	0.04		0.5	00.4	00.0	440	
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	99.4	90.0	110	
Anions and Nutrients (QCLot: 2178374) Chloride	16887-00-6	F235 CI	0.5	mg/L	100 mg/L	99.5	90.0	110	
	10001 00 0	L235.61	0.5	mg/L	100 mg/L	55.5	30.0	110	
Anions and Nutrients (QCLot: 2178375) Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	98.4	90.0	110	
Anions and Nutrients (QCLot: 2178377)									
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.001	mg/L	0.05 mg/L	99.7	80.0	120	_
Anions and Nutrients (QCLot: 2180213)									
Silicate (as SiO2)	7631-86-9	E392	0.5	mg/L	10 mg/L	109	85.0	115	
Anions and Nutrients (QCLot: 2180753)									
Kjeldahl nitrogen, total [TKN]		E318	0.05	mg/L	4 mg/L	105	75.0	125	
Anions and Nutrients (QCLot: 2180755)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.333 mg/L	100	80.0	120	
Anions and Nutrients (QCLot: 2180757)	7004 44 7	F200	0.005		0.2	400	05.0	445	
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	106	85.0	115	_
Organic / Inorganic Carbon (QCLot: 2180761)									
Carbon, total organic [TOC]		E355-L	0.5	mg/L	8.57 mg/L	102	80.0	120	
Total Metals (QCLot: 2178989)									
Aluminum, total	7429-90-5		0.003	mg/L	0.1 mg/L	104	80.0	120	_
Antimony, total	7440-36-0		0.0001	mg/L	0.05 mg/L	102	80.0	120	
Arsenic, total	7440-38-2		0.0001	mg/L	0.05 mg/L	103	80.0	120	
Barium, total	7440-39-3		0.0001	mg/L	0.012 mg/L	103	80.0	120	
Bismuth, total	7440-69-9		0.00005	mg/L	0.05 mg/L	102	80.0	120	
Boron, total	7440-42-8		0.01	mg/L	0.05 mg/L	102	80.0	120	
Cadmium, total	7440-43-9		0.000005	mg/L	0.005 mg/L	99.2	80.0	120	
Calcium, total	7440-70-2	E420	0.05	mg/L	2.5 mg/L	96.9	80.0	120	
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.012 mg/L	98.8	80.0	120	
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.012 mg/L	96.0	80.0	120	
Copper, total	7440-50-8	E420	0.0005	mg/L	0.012 mg/L	94.4	80.0	120	
Iron, total	7439-89-6	E420	0.01	mg/L	0.05 mg/L	100	80.0	120	
Lead, total	7439-92-1	E420	0.00005	mg/L	0.025 mg/L	103	80.0	120	
Magnesium, total	7439-95-4	E420	0.005	mg/L	2.5 mg/L	110	80.0	120	

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Sub-Matrix: Water				Laboratory Co	ontrol Sample (LCS)	Report			
					Spike	Recovery (%)	Recovery	Limits (%)	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 2178989) - c	ontinued								
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.012 mg/L	99.1	80.0	120	_
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.012 mg/L	98.6	80.0	120	
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.025 mg/L	96.7	80.0	120	
Potassium, total	7440-09-7	E420	0.05	mg/L	2.5 mg/L	102	80.0	120	
Selenium, total	7782-49-2	E420	0.00005	mg/L	0.05 mg/L	96.8	80.0	120	
Silicon, total	7440-21-3	E420	0.1	mg/L	0.5 mg/L	104	80.0	120	
Silver, total	7440-22-4	E420	0.00001	mg/L	0.005 mg/L	95.9	80.0	120	
Sodium, total	7440-23-5	E420	0.05	mg/L	2.5 mg/L	101	80.0	120	_
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.012 mg/L	102	80.0	120	_
Thallium, total	7440-28-0	E420	0.00001	mg/L	0.05 mg/L	102	80.0	120	_
Tin, total	7440-31-5	E420	0.0001	mg/L	0.025 mg/L	102	80.0	120	_
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.012 mg/L	97.0	80.0	120	
Uranium, total	7440-61-1	E420	0.00001	mg/L	0 mg/L	100	80.0	120	
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.025 mg/L	101	80.0	120	
Zinc, total	7440-66-6	E420	0.003	mg/L	0.025 mg/L	99.2	80.0	120	
Plant Pigments (QCLot: 2182455)									
Chlorophyll a	479-61-8	E870B	0.002	µg/sample	1.07 μg/sample	92.8	80.0	120	_

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Matrix Spike (MS) Report

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

Anions and Nutrients (QCLot: 2177895) HA2503203-001	Spike Target	97.2 90.4 93.9 93.8 91.9 99.9	75.0 75.0 75.0 75.0 75.0 75.0 75.0	Limits (%) High 125 125 125 125 125 125 125	Qualifier
Anions and Nutrients (QCLot: 2177895) HA2503203-001 Anonymous Fluoride 16984-48-8 E235.F 0.972 Anions and Nutrients (QCLot: 2177896) HA2503203-001 Anonymous Nitrate (as N) 14797-55-8 E235.NO3 2.26 Anions and Nutrients (QCLot: 2177897) HA2503203-001 Anonymous Nitrite (as N) 14797-65-0 E235.NO2 0.470 Anions and Nutrients (QCLot: 2177898) HA2503203-001 Anonymous Chloride 16887-00-6 E235.Cl 93.8 Anions and Nutrients (QCLot: 2177899) HA2503203-001 Anonymous Sulfate (as SO4) 14808-79-8 E235.SO4 91.9 Anions and Nutrients (QCLot: 2177904) HA2503203-001 Anonymous Phosphate, ortho-, dissolved (as P) 14265-44-2 E378-U 0.019 Anions and Nutrients (QCLot: 2178371) HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 2.37 Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)	mg/L 1 mg/L mg/L 2.5 mg/L mg/L 0.5 mg/L mg/L 100 mg/L mg/L 100 mg/L 6 mg/L 0.02 mg/L	97.2 90.4 93.9 93.8 91.9	75.0 75.0 75.0 75.0 75.0	125 125 125 125 125	
HA2503203-001	mg/L 2.5 mg/L mg/L 0.5 mg/L mg/L 100 mg/L mg/L 100 mg/L 0.02 mg/L	90.4 93.9 93.8 91.9	75.0 75.0 75.0 75.0	125 125 125 125	
Anions and Nutrients (QCLot: 2177896) HA2503203-001 Anonymous Nitrate (as N) 14797-55-8 E235.NO3 2.26 Anions and Nutrients (QCLot: 2177897) HA2503203-001 Anonymous Nitrite (as N) 14797-65-0 E235.NO2 0.470 Anions and Nutrients (QCLot: 2177898) HA2503203-001 Anonymous Chloride 16887-00-6 E235.Cl 93.8 Anions and Nutrients (QCLot: 2177899) HA2503203-001 Anonymous Sulfate (as SO4) 14808-79-8 E235.SO4 91.9 Anions and Nutrients (QCLot: 2177904) HA2503203-001 Anonymous Phosphate, ortho-, dissolved (as P) 14265-44-2 E378-U 0.019 Anions and Nutrients (QCLot: 2178371) HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 2.37 Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)	mg/L 2.5 mg/L mg/L 0.5 mg/L mg/L 100 mg/L mg/L 100 mg/L 0.02 mg/L	90.4 93.9 93.8 91.9	75.0 75.0 75.0 75.0	125 125 125 125	
HA2503203-001	mg/L 0.5 mg/L mg/L 100 mg/L mg/L 100 mg/L 0.02 mg/L	93.9 93.8 91.9 99.9	75.0 75.0 75.0 70.0	125 125 125 130	
Anions and Nutrients (QCLot: 2177897) HA2503203-001	mg/L 0.5 mg/L mg/L 100 mg/L mg/L 100 mg/L 0.02 mg/L	93.9 93.8 91.9 99.9	75.0 75.0 75.0 70.0	125 125 125 130	
HA2503203-001 Anonymous Nitrite (as N) 14797-65-0 E235.NO2 0.470	mg/L 100 mg/L mg/L 100 mg/L 6 mg/L 0.02 mg/L	93.8	75.0 75.0 70.0	125 125 130	
Anions and Nutrients (QCLot: 2177898) HA2503203-001 Anonymous Chloride 16887-00-6 E235.Cl 93.8 Anions and Nutrients (QCLot: 2177899) HA2503203-001 Anonymous Sulfate (as SO4) 14808-79-8 E235.SO4 91.9 Anions and Nutrients (QCLot: 2177904) HA2503203-001 Anonymous Phosphate, ortho-, dissolved (as P) 14265-44-2 E378-U 0.019 Anions and Nutrients (QCLot: 2178371) HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 2.37 Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)	mg/L 100 mg/L mg/L 100 mg/L 6 mg/L 0.02 mg/L	93.8	75.0 75.0 70.0	125 125 130	
HA2503203-001	mg/L 100 mg/L 6 mg/L 0.02 mg/L	91.9	75.0 70.0	125	
Anions and Nutrients (QCLot: 2177899) HA2503203-001 Anonymous Sulfate (as SO4) 14808-79-8 E235.SO4 91.9 Anions and Nutrients (QCLot: 2177904) HA2503203-001 Anonymous Phosphate, ortho-, dissolved (as P) 14265-44-2 E378-U 0.0190 Anions and Nutrients (QCLot: 2178371) HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 2.37 Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.4600 Anions and Nutrients (QCLot: 2178374)	mg/L 100 mg/L 6 mg/L 0.02 mg/L	91.9	75.0 70.0	125	
HA2503203-001	6 mg/L 0.02 mg/L	99.9	70.0	130	
Anions and Nutrients (QCLot: 2177904) HA2503203-001 Anonymous Phosphate, ortho-, dissolved (as P) 14265-44-2 E378-U 0.019 Anions and Nutrients (QCLot: 2178371) HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 2.37 Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)	6 mg/L 0.02 mg/L	99.9	70.0	130	
HA2503203-001 Anonymous Phosphate, ortho-, dissolved (as P) 14265-44-2 E378-U 0.0190 Anions and Nutrients (QCLot: 2178371) HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 2.37 Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)					
Anions and Nutrients (QCLot: 2178371) HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 2.37 Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)					
HA2503218-001 PML-2 Nitrate (as N) 14797-55-8 E235.NO3 2.37 Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)	mg/L 2.5 mg/L	94.9	75.0	125	_
Anions and Nutrients (QCLot: 2178372) HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)	mg/L 2.5 mg/L	94.9	75.0	125	
HA2503218-001 PML-2 Fluoride 16984-48-8 E235.F 1.02 Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)					
Anions and Nutrients (QCLot: 2178373) HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)					
HA2503218-001 PML-2 Nitrite (as N) 14797-65-0 E235.NO2 0.460 Anions and Nutrients (QCLot: 2178374)	mg/L 1 mg/L	102	75.0	125	
Anions and Nutrients (QCLot: 2178374)					
) mg/L 0.5 mg/L	92.0	75.0	125	
HA2503218-001 PML-2 Chloride 16887-00-6 E235.CI ND					
	mg/L —	ND	75.0	125	
Anions and Nutrients (QCLot: 2178375)					
HA2503218-001 PML-2 Sulfate (as SO4) 14808-79-8 E235.SO4 93.3	mg/L 100 mg/L	93.3	75.0	125	
Anions and Nutrients (QCLot: 2178377)					
HA2502313-001 Anonymous Phosphate, ortho-, dissolved (as P) 14265-44-2 E378-U 0.020	4 mg/L 0.02 mg/L	104	70.0	130	_
Anions and Nutrients (QCLot: 2180213)					
HA2503218-002 KL-6 Silicate (as SiO2) 7631-86-9 E392 10.7	mg/L 10 mg/L	107	75.0	125	
Anions and Nutrients (QCLot: 2180753)					
HA2503218-002 KL-6 Kjeldahl nitrogen, total [TKN] — E318 2.89	mg/L 2.5 mg/L	116	70.0	130	_
Anions and Nutrients (QCLot: 2180755)					
HA2503218-001 PML-2 Phosphorus, total 7723-14-0 E372-U 0.096	4 // 0.4 -	96.1	70.0	130	_
Anions and Nutrients (QCLot: 2180757)	1 mg/L 0.1 mg/L				

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 :
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 Work Order
 :
 HA2503218

 Client
 :
 WSP Canada Inc.

 Project
 :
 CA0050657.1254



Sub-Matrix: Water						Matrix Spil	ke (MS) Report			
					Spi	ike	Recovery (%)	Recovery	Limits (%)	
Laboratory sample li	D Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutr	ients (QCLot: 218075	7) - continued								
HA2502313 001	Anonymous	Ammonia, total (as N)	7664 41 7	E298	0 106 mg/L	0 1 mg/L	106	75 0	125	
Organic / Inorga	nic Carbon (QCLot: 2	180761)								
HA2503218-001	PML-2	Carbon, total organic [TOC]		E355-L	5.27 mg/L	5 mg/L	105	70.0	130	_
Total Metals (Q0	CLot: 2178989)									
HA2503218-005	PML-1	Aluminum, total	7429-90-5	E420	ND mg/L		ND	70.0	130	
		Antimony, total	7440-36-0	E420	0.0539 mg/L	0.05 mg/L	108	70.0	130	
		Arsenic, total	7440-38-2	E420	0.0536 mg/L	0.05 mg/L	107	70.0	130	
		Barium, total	7440-39-3	E420	ND mg/L		ND	70.0	130	
		Bismuth, total	7440-69-9	E420	0.0505 mg/L	0.05 mg/L	101	70.0	130	
		Boron, total	7440-42-8	E420	0.054 mg/L	0.05 mg/L	109	70.0	130	
		Cadmium, total	7440-43-9	E420	0.00511 mg/L	0.005 mg/L	102	70.0	130	
		Calcium, total	7440-70-2	E420	ND mg/L		ND	70.0	130	
		Chromium, total	7440-47-3	E420	0.0129 mg/L	0.012 mg/L	103	70.0	130	
		Cobalt, total	7440-48-4	E420	0.0122 mg/L	0.012 mg/L	98.0	70.0	130	
		Copper, total	7440-50-8	E420	0.0118 mg/L	0.012 mg/L	94.7	70.0	130	
		Iron, total	7439-89-6	E420	ND mg/L		ND	70.0	130	
		Lead, total	7439-92-1	E420	0.0256 mg/L	0.025 mg/L	102	70.0	130	
		Magnesium, total	7439-95-4	E420	2.70 mg/L	2.5 mg/L	108	70.0	130	
		Manganese, total	7439-96-5	E420	ND mg/L		ND	70.0	130	
		Molybdenum, total	7439-98-7	E420	0.0133 mg/L	0.012 mg/L	107	70.0	130	
		Nickel, total	7440-02-0	E420	0.0245 mg/L	0.025 mg/L	98.0	70.0	130	
		Potassium, total	7440-09-7	E420	2.66 mg/L	2.5 mg/L	106	70.0	130	
		Selenium, total	7782-49-2	E420	0.0499 mg/L	0.05 mg/L	99.7	70.0	130	
		Silicon, total	7440-21-3	E420	0.50 mg/L	0.5 mg/L	99.8	70.0	130	
		Silver, total	7440-22-4	E420	0.00484 mg/L	0.005 mg/L	96.8	70.0	130	
		Sodium, total	7440-23-5	E420	ND mg/L		ND	70.0	130	
		Strontium, total	7440-24-6	E420	ND mg/L		ND	70.0	130	
		Thallium, total	7440-28-0	E420	0.0503 mg/L	0.05 mg/L	100	70.0	130	
		Tin, total	7440-31-5	E420	0.0266 mg/L	0.025 mg/L	106	70.0	130	
		Titanium, total	7440-32-6	E420	0.0123 mg/L	0.012 mg/L	98.8	70.0	130	
		Uranium, total	7440-61-1	E420	0.000260 mg/L	0 mg/L	104	70.0	130	
		Vanadium, total	7440-62-2	E420	0.0266 mg/L	0.025 mg/L	106	70.0	130	
		Zinc, total	7440-66-6	E420	0.0247 mg/L	0.025 mg/L	98.9	70.0	130	

Chain of Custody (COC) / Analytical Request Form

COC Number: 22 -

-		
	 7-0-1	



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Canada Toll Free: 1 800 668 9878

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Environmental Division Halifax Work Order Reference

Report Mercipents Report	Reference
Secret	10331B
20-446-1923	103210
Seed Distribution Dead PAS Dead PA	
Seeced Septendio Lake Dr. Seeced	A Mac∎IIII
Comparison Com	(4) 開発
Postal Code 338 1377	ANTON HILL
Invoice To Same as Report	東)第八名圖[
Notice Copy of Invoice with Report Series	
Company WSP Canada Inc.	707 4888
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ALS Lab Work Order # (ALS use only): - A 2 5 3 2 (
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ALS Lab Work Order # (ALS use only): - A 2 5 3 2 (REQUIRED
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ALS Lab Work Order # (ALS use only): - A 2 5 3 2 (9 8 6
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ALS Lab Work Order # (ALS use only):	ON HOLD STORAGE
DML-2	SAMPLES ON HOLD EXTENDED STORAGE REQUIRED
DML-2	N N N
DML-2	K K
KL-2	
KL-3	
Kin-4	
KL-6 KL-7 LO-Aug-25 10:35 KL-7 LO-Aug-25 10:15 LO-Aug-25 10:15 KL-7 LO-Aug-25 10:15 LO-Aug-25 10:15 KL-7 LO-Aug-25 10:15 LO-Aug-26 10:15 LO-Aug-26 10:15	
KL-6 20-Aug-25 10:35 6 X	
HWY-102-2 10-Aug-25 1/:15 10-Aug-25 1/:15 10-Aug-25 1/:00 10-Aug-25 1/	
HWY-102-2 10-Aug-25 1/:15 10-Aug-25 1/:15 10-Aug-25 1/:00 10-Aug-25 1/	
HWY-102-2 10-Aug-25 1/:15 10-Aug-25 1/:15 10-Aug-25 1/:00 10-Aug-25 1/	
PML-1 Drinking Water (DW) Samples¹ (client use) Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) Are samples taken from a Regulated DW System? YES NO Are samples for human consumption/ use? YES NO SHIPMENT RELEASE (client use) SHIPMENT RELEASE (client use) Time: Date: Date	
PML-1 Drinking Water (DW) Samples¹ (client use) Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) Are samples taken from a Regulated DW System? YES NO Are samples for human consumption/ use? YES NO SHIPMENT RELEASE (client use) SHIPMENT RELEASE (client use) Time: Date: Date	
PML-1 Drinking Water (DW) Samples¹ (client use) Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) Are samples taken from a Regulated DW System? VES NO Are samples for human consumption/ use? SHIPMENT RELEASE (client use) SHIPMENT RELEASE (client use) Time: Received by: Date: Time: Time: Received by: Date: Time: Time:	
Drinking Water (DW) Samples¹ (client use) Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) Are samples taken from a Regulated DW System? YES NO Are samples for human consumption/ use? SHIPMENT RELEASE (client use) SHIPMENT RELEASE (client use) PML-1 20-Aug -25 /2:00 (Excel COC only) SAMPLE RECEIPT DETAILS (ALS use only) Cooling Method: NONE RECEIPT DETAILS (ALS use only) Cooling Method: NONE RECEIPT DETAILS (ALS use only) FINAL COOLER TEMPERATURES **C FINAL SHIPMENT RECEPTION (ALS use only) Released by Date Time: Received by Date	
Drinking Water (DW) Samples¹ (client use) Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) Are samples taken from a Regulated DW System? YES NO Are samples for human consumption/ use? YES NO SHIPMENT RELEASE (client use) Time: Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) SAMPLE RECEIPT DETAILS (ALS use only) Cooling Method: NONE CICE ICE PACKS FROZEN COC Cooler Custody Seals Inlact: YES N/A Sample Custody Seals Inlact: NOTE NOTE INVESTIGATION (ALS use only) Time: Received by Date:	
Drinking Water (DW) Samples (client use) Are samples taken from a Regulated DW System? YES NO Are samples for human consumption/ use? YES NO SHIPMENT RELEASE (client use) ITIAL SHIPMENT RECEPTION (ALS use only) Released by Date Time: Cooling Method: NONE ICE PACKS FROZEN COO Cooler Custody Seals Intact: YES N/A Sample Custody Seals Intact: N/A Sampl	
Cooler Custody Seals Inlact: YES N/A Sample Custody Seals Inlact: YES N/A YES N/A YES Y	
Are samples for human consumption/ use? VES NO	DOLING INITIATED
SHIPMENT RELEASE (client use) SHIPMENT RELEASE (client use) ITIAL SHIPMENT RECEPTION (ALS use only) Released by Date Date Time Received by Date	
SHIPMENT RELEASE (client use) ITIAL SHIPMENT RECEPTION (ALS use only) Released by Date: D	ERATURES °C
Released by Date Time Date Time Received by Date	
Released by: Date: Time: Received by: Date:	
Allison Smith 20-Aug-25 1:30 REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY	Time:

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW). System, please submit using an Authorized DW COC form.



CERTIFICATE OF ANALYSIS

HA2503197 **Work Order**

: WSP Canada Inc. Client : ALS Environmental - Halifax Laboratory Contact Naomi Giles

> : 1 Spectacle Lake Drive : 13-100 Wright Ave Address

Dartmouth Nova Scotia Canada B3B 1X7 Telephone

CA0052759.2572 **Project** PO P115454CA1 C-O-C number 20-1022524

: JH / MO Sampler

Site : HRM-2025-0160 Water Quality Monitoring (X) Quote number

No. of samples received : 8 No. of samples analysed 8

: Amanda Overholster **Account Manager**

Dartmouth NS Canada B3B 1L2 : Amanda.Overholster@ALSGlobal.com E-mail

Telephone : 1 416 817 2944 Date Samples Received : 19-Aug-2025 14:50 Date Analysis Commenced 20-Aug-2025 Issue Date

28-Aug-2025 14:54

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

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

Address

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
Greg Pokocky		Metals, Waterloo, Ontario
Greg Pokocky		Inorganics, Waterloo, Ontario
Jiaxi Wang		Inorganics, Dartmouth, Nova Scotia
Jiaxi Wang		Microbiology, Dartmouth, Nova Scotia
Jon Fisher		Inorganics, Dartmouth, Nova Scotia
Kevin Baxter		Inorganics, Winnipeg, Manitoba
Lee McTavish		Inorganics, Winnipeg, Manitoba
Robyn MacCormack		Administration, Dartmouth, Nova Scotia

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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
%	percent
CU	colour units (1 cu = 1 mg/l pt)
L	litres
meq/L	milliequivalents per litre
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
μg/L	micrograms per litre
μg/sample	micrograms per sample
μS/cm	microsiemens per centimetre

<: less 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.

>: greater than.



Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLUI	Detection Limit Raised: Unknown interference generated an apparent false positive test result.

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Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)			Client	sample ID	HWY - 102 - 1 	LU 	KL 3 	KL 4 	LSD
			Client sampling	date / time	19-Aug-2025 09:35	19-Aug-2025 10:25	19-Aug-2025 11:10	19-Aug-2025 11:20	19-Aug-2025 12:05
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-001	HA2503197-002	HA2503197-003	HA2503197-004	HA2503197-005
					Result	Result	Result	Result	Result
Sample Preparation									
Volume filtered		EF870B/HA	0.001	L	0.100	0.100	0.100	0.100	0.100
Physical Tests									
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/WT	1.2	mg/L	29.5	26.5	11.0	18.5	34.8
Alkalinity, carbonate (as CO3)	3812-32-6	E290/WT	1.0	mg/L	<0.6	<0.6	<0.6	<0.6	<0.6
Alkalinity, hydroxide (as OH)	14280-30-9	E290/WT	1.0	mg/L	<0.3	<0.3	<0.3	<0.3	<0.3
Alkalinity, total (as CaCO3)		E290/WT	1.0	mg/L	24.2	21.7	9.0	15.2	28.5
Colour, apparent		E330/WT	2.0	CU	65.9	39.2	23.0	26.9	113
Conductivity		E100/WT	1.0	μS/cm	614	1090	361	432	198
Hardness (as CaCO3), from total Ca/Mg		EC100A/WT	0.50	mg/L	82.1	117	35.3	50.5	30.8
Langelier index (@ 20°C)		EC105A/WT	0.010	-	-1.72	-1.44	-2.38	-2.01	-2.08
Langelier index (@ 4°C)		EC105A/WT	0.010	-	-1.97	-1.69	-2.63	-2.26	-2.33
рН		E108/HA	0.10	pH units	6.89	7.14	6.99	7.00	6.87
pH, saturation (@ 20°C)		EC105A/WT	0.010	pH units	8.61	8.58	9.37	9.01	8.95
pH, saturation (@ 4°C)		EC105A/WT	0.010	pH units	8.86	8.83	9.62	9.26	9.20
Solids, total dissolved [TDS]		E162/HA	10	mg/L	343	612	194	245	120
Solids, total suspended [TSS]		E160/HA	3.0	mg/L	13.2	<3.0	<3.0	<3.0	<3.0
Turbidity		E121/WT	0.10	NTU	1.53	1.12	0.43	1.00	23.0
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	0.190	0.0206	0.0161	0.0426	0.498
Chloride	16887-00-6	E235.CI/WT	0.50	mg/L	152	296 DLDS	90.0	102	32.6
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.038	<0.100 DLDS	0.034	0.034	0.042

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Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)			Client	sample ID	HWY - 102 - 1 	LU 	KL 3 	KL 4 	LSD
			Client sampling	date / time	19-Aug-2025 09:35	19-Aug-2025 10:25	19-Aug-2025 11:10	19-Aug-2025 11:20	19-Aug-2025 12:05
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-001	HA2503197-002	HA2503197-003	HA2503197-004	HA2503197-005
					Result	Result	Result	Result	Result
Anions and Nutrients									
Kjeldahl nitrogen, total [TKN]		E318/WT	0.050	mg/L	0.902	0.396	0.197	0.344	1.40
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.131	0.207 DLDS	0.073	0.318	0.257
Nitrate + Nitrite (as N)		EC235.N+N/WT	0.0032	mg/L	0.131	0.207	0.0730	0.318	0.257
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010	<0.050 DLDS	<0.010	<0.010	<0.010
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L	0.0288	0.0090	0.0025	0.0054	0.0494
Silicate (as SiO2)	7631-86-9	E392/WP	0.50	mg/L	7.86	0.76	1.83	3.10	1.32
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	15.9	23.7 DLDS	10.5	15.7	8.84
Organic / Inorganic Carbon									
Carbon, total organic [TOC]		E355-L/WT	0.50	mg/L	9.71	6.34	4.55	4.13	13.0
Microbiological Tests									
Coliforms, total		E010/HA	1	MPN/100 mL	>2420	>2420	>2420	>2420	>2420
Coliforms, Escherichia coli [E. coli]		E010/HA	1	MPN/100 mL	548	236	125	272	36
Ion Balance									
Anion sum		EC101A/WT	0.10	meq/L	5.11	9.29	2.94	3.53	1.69
Cation sum (total)		EC101A/WT	0.10	meq/L	5.26	9.55	3.03	3.68	1.91
Ion balance (cations/anions)		EC101A/WT	0.01	%	103	103	103	104	113
Total Metals									
Aluminum, total	7429-90-5	E420/WT	0.0030	mg/L	0.0966	0.134	0.0212	0.415	0.601
Antimony, total	7440-36-0	E420/WT	0.00010	mg/L	0.00017	0.00028	<0.00010	<0.00010	<0.00010
Arsenic, total	7440-38-2	E420/WT	0.00010	mg/L	0.00051	0.00038	0.00030	0.00070	0.00153

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Analytical Results

Sub-Matrix: Surface Water			Client	sample ID	HWY - 102 - 1	LU	KL 3	KL 4	LSD
(Matrix: Water)			Client sampling	date / time	19-Aug-2025 09:35	19-Aug-2025 10:25	19-Aug-2025 11:10	19-Aug-2025 11:20	 19-Aug-2025 12:05
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-001	HA2503197-002	HA2503197-003	HA2503197-004	HA2503197-005
					Result	Result	Result	Result	Result
Total Metals									
Barium, total	7440-39-3	E420/WT	0.00010	mg/L	0.157	0.219	0.0286	0.0691	0.0204
Bismuth, total	7440-69-9	E420/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron, total	7440-42-8	E420/WT	0.010	mg/L	0.014	0.017	<0.010	0.011	0.023
Cadmium, total	7440-43-9	E420/WT	0.0000050	mg/L	0.0000138	0.0000409	0.0000076	0.0000872	0.0000246
Calcium, total	7440-70-2	E420/WT	0.050	mg/L	27.3	37.7	11.4	16.2	8.84
Chromium, total	7440-47-3	E420/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00078
Cobalt, total	7440-48-4	E420/WT	0.00010	mg/L	0.00032	0.00026	<0.00010	0.00155	0.00101
Copper, total	7440-50-8	E420/WT	0.00050	mg/L	0.00144	0.00203	0.00068	0.00148	0.00146
Iron, total	7439-89-6	E420/WT	0.010	mg/L	0.412	0.359	0.077	0.865	1.64
Lead, total	7439-92-1	E420/WT	0.000050	mg/L	0.000320	0.000425	0.000080	0.00102	0.00114
Magnesium, total	7439-95-4	E420/WT	0.0050	mg/L	3.38	5.54	1.65	2.44	2.12
Manganese, total	7439-96-5	E420/WT	0.00010	mg/L	0.143	0.0730	0.0800	0.958	0.753
Molybdenum, total	7439-98-7	E420/WT	0.000050	mg/L	0.000293	0.000437	0.000191	0.000263	0.000265
Nickel, total	7440-02-0	E420/WT	0.00050	mg/L	0.00088	0.00074	<0.00050	0.00178	0.00120
Potassium, total	7440-09-7	E420/WT	0.050	mg/L	2.58	3.64	1.33	1.77	2.41
Selenium, total	7782-49-2	E420/WT	0.000050	mg/L	0.000056	0.000076	0.000052	0.000098	0.000216
Silicon (as SiO2), total	7631-86-9	EC420.SiO2/WT	0.25	mg/L	7.38	1.33	1.82	3.59	2.76
Silicon, total	7440-21-3	E420/WT	0.10	mg/L	3.45	0.62	0.85	1.68	1.29
Silver, total	7440-22-4	E420/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium, total	7440-23-5	E420/WT	0.050	mg/L	80.8	163	52.5	57.8	24.0
Strontium, total	7440-24-6	E420/WT	0.00020	mg/L	0.124	0.176	0.0500	0.0713	0.0440

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Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)			Client	sample ID	HWY - 102 - 1 	LU 	KL 3 	KL 4 	LSD
			Client sampling	date / time	19-Aug-2025 09:35	19-Aug-2025 10:25	19-Aug-2025 11:10	19-Aug-2025 11:20	19-Aug-2025 12:05
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-001	HA2503197-002	HA2503197-003	HA2503197-004	HA2503197-005
					Result	Result	Result	Result	Result
Total Metals									
Thallium, total	7440-28-0	E420/WT	0.000010	mg/L	<0.000010	0.000019	0.000014	0.000026	0.000011
Tin, total	7440-31-5	E420/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	0.00013	0.00015
Titanium, total	7440-32-6	E420/WT	0.00030	mg/L	0.00190	0.00279	<0.00030	<0.00700 DLUI	0.0166
Uranium, total	7440-61-1	E420/WT	0.000010	mg/L	0.000014	0.000031	0.000031	0.000119	0.000045
Vanadium, total	7440-62-2	E420/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	0.00127	0.00144
Zinc, total	7440-66-6	E420/WT	0.0030	mg/L	0.0118	0.0110	<0.0030	0.0150	0.0054
Plant Pigments									
Chlorophyll a	479-61-8	EC870B/WP	0.010	μg/L	5.27	2.84	1.43	4.25	10.1
Chlorophyll a	479-61-8	E870B/WP	0.0020	μg/sampl e	0.527	0.284	0.143	0.425	1.01

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

Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)	Client sample IE			sample ID	KL 2 	KL 5 	KL 1 	
			Client sampling	date / time	19-Aug-2025 13:00	19-Aug-2025 13:20	19-Aug-2025 13:50	
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-006	HA2503197-007	HA2503197-008	
					Result	Result	Result	
Sample Preparation								
Volume filtered		EF870B/HA	0.001	L	0.100	0.100	0.100	
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/WT	1.2	mg/L	25.6	9.4	9.6	
Alkalinity, carbonate (as CO3)	3812-32-6	E290/WT	1.0	mg/L	<0.6	<0.6	<0.6	
Alkalinity, hydroxide (as OH)	14280-30-9	E290/WT	1.0	mg/L	<0.3	<0.3	<0.3	

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Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)			Client	sample ID	KL 2 	KL 5 	KL 1 	
			Client sampling	date / time	19-Aug-2025 13:00	19-Aug-2025 13:20	19-Aug-2025 13:50	
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-006	HA2503197-007	HA2503197-008	
					Result	Result	Result	
Physical Tests								
Alkalinity, total (as CaCO3)		E290/WT	1.0	mg/L	21.0	7.7	7.9	
Colour, apparent		E330/WT	2.0	CU	49.5	18.2	21.1	
Conductivity		E100/WT	1.0	μS/cm	252	341	340	
Hardness (as CaCO3), from total Ca/Mg		EC100A/WT	0.50	mg/L	45.6	31.3	32.1	
Langelier index (@ 20°C)		EC105A/WT	0.010	-	-2.23	-2.46	-2.40	
Langelier index (@ 4°C)		EC105A/WT	0.010	-	-2.48	-2.71	-2.66	
рН		E108/HA	0.10	pH units	6.68	7.03	7.06	
pH, saturation (@ 20°C)		EC105A/WT	0.010	pH units	8.91	9.49	9.46	
pH, saturation (@ 4°C)		EC105A/WT	0.010	pH units	9.16	9.74	9.72	
Solids, total dissolved [TDS]		E162/HA	10	mg/L	140	179	181	
Solids, total suspended [TSS]		E160/HA	3.0	mg/L	<3.0	<3.0	<3.0	
Turbidity		E121/WT	0.10	NTU	1.02	0.22	0.31	
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	0.0220	0.0165	0.0087	
Chloride	16887-00-6	E235.CI/WT	0.50	mg/L	50.9	84.6	85.0	
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.035	0.032	0.033	
Kjeldahl nitrogen, total [TKN]		E318/WT	0.050	mg/L	0.263	0.194	0.170	
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.059	0.154	0.134	
Nitrate + Nitrite (as N)		EC235.N+N/WT	0.0032	mg/L	0.0590	0.154	0.134	
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010	<0.010	<0.010	
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	<0.0010	<0.0010	<0.0010	

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Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)			Client	sample ID	KL 2 	KL 5 	KL 1 	
			Client sampling	date / time	19-Aug-2025 13:00	19-Aug-2025 13:20	19-Aug-2025 13:50	
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-006	HA2503197-007	HA2503197-008	
					Result	Result	Result	
Anions and Nutrients								
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L	0.0074	0.0021	<0.0020	
Silicate (as SiO2)	7631-86-9	E392/WP	0.50	mg/L	3.85	2.18	2.14	
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	12.5	10.5	10.5	
Organic / Inorganic Carbon								
Carbon, total organic [TOC]		E355-L/WT	0.50	mg/L	5.67	4.34	4.38	
Microbiological Tests								
Coliforms, total		E010/HA	1	MPN/100 mL	>2420	517	649	
Coliforms, Escherichia coli [E. coli]		E010/HA	1	MPN/100 mL	15	23	14	
Ion Balance								
Anion sum		EC101A/WT	0.10	meq/L	2.12	2.77	2.78	
Cation sum (total)		EC101A/WT	0.10	meq/L	2.19	2.81	2.84	
Ion balance (cations/anions)		EC101A/WT	0.01	%	103	101	102	
Total Metals								
Aluminum, total	7429-90-5	E420/WT	0.0030	mg/L	0.0484	0.0255	0.0302	
Antimony, total	7440-36-0	E420/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	
Arsenic, total	7440-38-2	E420/WT	0.00010	mg/L	0.00042	0.00026	0.00030	
Barium, total	7440-39-3	E420/WT	0.00010	mg/L	0.0406	0.0243	0.0248	
Bismuth, total	7440-69-9	E420/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	
Boron, total	7440-42-8	E420/WT	0.010	mg/L	0.018	<0.010	<0.010	
Cadmium, total	7440-43-9	E420/WT	0.0000050	mg/L	0.0000205	0.0000078	0.0000067	
Calcium, total	7440-70-2	E420/WT	0.050	mg/L	13.5	10.1	10.4	

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Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)			Client	sample ID	KL 2 	KL 5 	KL 1 	
			Client sampling	date / time	19-Aug-2025 13:00	19-Aug-2025 13:20	19-Aug-2025 13:50	
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-006	HA2503197-007	HA2503197-008	
					Result	Result	Result	
Total Metals								
Chromium, total	7440-47-3	E420/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	
Cobalt, total	7440-48-4	E420/WT	0.00010	mg/L	0.00062	<0.00010	<0.00010	
Copper, total	7440-50-8	E420/WT	0.00050	mg/L	0.00060	0.00073	0.00073	
Iron, total	7439-89-6	E420/WT	0.010	mg/L	0.534	0.025	0.036	
Lead, total	7439-92-1	E420/WT	0.000050	mg/L	0.000182	0.000072	<0.000050	
Magnesium, total	7439-95-4	E420/WT	0.0050	mg/L	2.90	1.48	1.49	
Manganese, total	7439-96-5	E420/WT	0.00010	mg/L	0.584	0.00838	0.0196	
Molybdenum, total	7439-98-7	E420/WT	0.000050	mg/L	0.000102	0.000178	0.000186	
Nickel, total	7440-02-0	E420/WT	0.00050	mg/L	0.00051	<0.00050	<0.00050	
Potassium, total	7440-09-7	E420/WT	0.050	mg/L	1.84	1.20	1.21	
Selenium, total	7782-49-2	E420/WT	0.000050	mg/L	0.000077	0.000057	0.000053	
Silicon (as SiO2), total	7631-86-9	EC420.SiO2/WT	0.25	mg/L	3.87	2.12	2.07	
Silicon, total	7440-21-3	E420/WT	0.10	mg/L	1.81	0.99	0.97	
Silver, total	7440-22-4	E420/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	
Sodium, total	7440-23-5	E420/WT	0.050	mg/L	27.2	49.3	49.6	
Strontium, total	7440-24-6	E420/WT	0.00020	mg/L	0.0574	0.0451	0.0453	
Thallium, total	7440-28-0	E420/WT	0.000010	mg/L	0.000024	0.000013	0.000013	
Tin, total	7440-31-5	E420/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	
Titanium, total	7440-32-6	E420/WT	0.00030	mg/L	0.00100	<0.00030	0.00031	
Uranium, total	7440-61-1	E420/WT	0.000010	mg/L	0.000020	0.000057	0.000056	
Vanadium, total	7440-62-2	E420/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	

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Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)	Client sample ID			sample ID	KL 2 	KL 5 	KL 1 	
			Client sampling	date / time	19-Aug-2025 13:00	19-Aug-2025 13:20	19-Aug-2025 13:50	
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503197-006	HA2503197-007	HA2503197-008	
					Result	Result	Result	
Total Metals								
Zinc, total	7440-66-6	E420/WT	0.0030	mg/L	<0.0030	<0.0030	0.0031	
Plant Pigments								
Chlorophyll a	479-61-8	EC870B/WP	0.010	μg/L	5.45	1.22	1.16	
Chlorophyll a	479-61-8	E870B/WP	0.0020	μg/sampl e	0.545	0.122	0.116	

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

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QUALITY CONTROL INTERPRETIVE REPORT

:HA2503197 **Work Order** Page : 1 of 30

Client : WSP Canada Inc. Laboratory : ALS Environmental - Halifax

Contact : Naomi Giles **Account Manager** : Amanda Overholster Address

Address : 1 Spectacle Lake Drive : 13-100 Wright Ave

Dartmouth NS Canada B3B 1X7 Dartmouth, Nova Scotia Canada B3B 1L2

Telephone Telephone : 1 416 817 2944 Project : CA0052759.2572 **Date Samples Received** : 19-Aug-2025 14:50

PO : P115454CA1 Issue Date : 28-Aug-2025 14:54 C O C number 20-1022524 Sampler :JH / MO

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No of samples received :8 No. of samples analysed :8

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.

Site

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

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

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit). RPD: Relative Percent Difference.

Workorder Comments

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

Summary of Outliers

Outliers: Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Matrix Spike 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

• Quality Control Sample Frequency Outliers occur - please see following pages for full details.

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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
Matrix Spike (MS) Recoveries								
Total Metals	Anonymous	Anonymous	Nickel, total	7440-02-0	E420	56.2 % K	70.0-130%	Recovery less than lower
								data quality objective

Result Qualifiers

Qualifier	Description
К	Matrix Spike recovery outside ALS DQO due to sample matrix effects.

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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	Method	Sampling Date	Ext	traction / Pr	reparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) HWY - 102 - 1	E298	19-Aug-2025	22-Aug-2025	28 days	3 days	~	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) KL 1	E298	19-Aug-2025	22-Aug-2025	28 days	3 days	*	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) KL 2	E298	19-Aug-2025	22-Aug-2025	28 days	3 days	*	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) KL 3	E298	19-Aug-2025	22-Aug-2025	28 days	3 days	√	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) KL 4	E298	19-Aug-2025	22-Aug-2025	28 days	3 days	~	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) KL 5	E298	19-Aug-2025	22-Aug-2025	28 days	3 days	1	25-Aug-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) LSD	E298	19-Aug-2025	22-Aug-2025	28 days	3 days	1	25-Aug-2025	28 days	3 days	✓

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Matrix: Water					E۱	/aluation: \star =	Holding time exce	edance ; 🛚	/ = Within	Holding Tin
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pi	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)										
LU	E298	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
HWY - 102 - 1	E235.CI	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
KL 1	E235.CI	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
KL 2	E235.CI	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
KL 3	E235.CI	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
KL 4	E235.CI	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
KL 5	E235.CI	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
LSD	E235.CI	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE										
LU	E235.CI	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
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Matrix: Water					E۱	/aluation: 😕 =	Holding time exce	edance ; 🔻	= Within	Holding Tim
Analyte Group : Analytical Method	Method	Sampling Date	Ex	traction / Pr	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	e Level 0.001 mg/L)									
HDPE										
HWY - 102 - 1	E378-U	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	e Level 0.001 mg/L)									
HDPE										
KL 1	E378-U	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	e Level 0.001 mg/L)									
HDPE										
KL 2	E378-U	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
KL 3	E378-U	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
KL 4	E378-U	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
KL 5	E378-U	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE										
LSD	E378-U	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace	Level 0.001 mg/L)									
HDPE		T								
LU	E378-U	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
HWY - 102 - 1	E235.F	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						

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Matrix: Water					E۱	/aluation: 🗷 =	Holding time excee	edance ; 🛚	= Within	Holding Time
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	eparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
KL 1	E235.F	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
KL 2	E235.F	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
KL 3	E235.F	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
KL 4	E235.F	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
KL 5	E235.F	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
LSD	E235.F	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
LU	E235.F	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
HWY - 102 - 1	E235.NO3	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
KL 1	E235.NO3	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
				1	1			1		

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Matrix: Water					E۱	/aluation: \star =	Holding time excee	edance ; 🖠	/ = Within	Holding Tim
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	eparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
KL 2	E235.NO3	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
KL 3	E235.NO3	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
KL 4	E235.NO3	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
KL 5	E235.NO3	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE										
LSD	E235.NO3	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE						,				,
LU	E235.NO3	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE	E235.NO2	40 Aug 2025	04 4 0005	0 4	0 4	√	00 4 0005	0 4	0 4	1
HWY - 102 - 1	E233.NO2	19-Aug-2025	21-Aug-2025	3 days	2 days	*	22-Aug-2025	3 days	2 days	•
Anions and Nutrients : Nitrite in Water by IC										
HDPE KL 1	E235.NO2	19-Aug-2025	21-Aug-2025	3 days	2 days	√	22-Aug-2025	3 days	2 days	1
NL I	L200.NO2	13-Aug-2023	21-Aug-2025	3 days	2 uays	•	22-Aug-2023	3 uays	2 uays	•
Aniana and Nationala - Nitrita in Water by 10										
Anions and Nutrients : Nitrite in Water by IC HDPE										
KL 2	E235.NO2	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
The de	2200.1102		ag 2020	Janjo	_ 44,5		/ lug 2020	Jaayo	_ 44,5	

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Matrix: Water					E۱	/aluation: \star =	Holding time excee	edance ; 🔊	= Within	Holding Tim
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	eparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
KL 3	E235.NO2	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
KL 4	E235.NO2	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
KL 5	E235.NO2	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
LSD	E235.NO2	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE										
LU	E235.NO2	19-Aug-2025	21-Aug-2025	3 days	2 days	✓	22-Aug-2025	3 days	2 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
HWY - 102 - 1	E392	19-Aug-2025					25-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
KL 1	E392	19-Aug-2025					25-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
KL 2	E392	19-Aug-2025					25-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
KL 3	E392	19-Aug-2025					25-Aug-2025	28 days	6 days	✓

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Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	reparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
KL 4	E392	19-Aug-2025					25-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
KL 5	E392	19-Aug-2025					25-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
LSD	E392	19-Aug-2025					25-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Reactive Silica by Colourimetry										
HDPE										
LU	E392	19-Aug-2025					25-Aug-2025	28 days	6 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
HWY - 102 - 1	E235.SO4	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
KL 1	E235.SO4	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
KL 2	E235.SO4	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
KL 3	E235.SO4	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
			_	days						
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
KL 4	E235.SO4	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
			_	days					_	

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Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	eparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
KL 5	E235.SO4	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
LSD	E235.SO4	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
LU	E235.SO4	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓
				days						
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
HWY - 102 - 1	E318	19-Aug-2025	25-Aug-2025	28	6 days	✓	25-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
KL 1	E318	19-Aug-2025	25-Aug-2025	28	6 days	✓	25-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
KL 2	E318	19-Aug-2025	25-Aug-2025	28	6 days	✓	25-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
KL 3	E318	19-Aug-2025	25-Aug-2025	28	6 days	✓	25-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
KL 4	E318	19-Aug-2025	25-Aug-2025	28	6 days	✓	25-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
KL 5	E318	19-Aug-2025	25-Aug-2025	28	6 days	✓	25-Aug-2025	28 days	6 days	✓
				days						
								1		

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Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
LSD	E318	19-Aug-2025	25-Aug-2025	28	6 days	✓	25-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
LU	E318	19-Aug-2025	25-Aug-2025	28	6 days	✓	25-Aug-2025	28 days	6 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
HWY - 102 - 1	E372-U	19-Aug-2025	22-Aug-2025	28	3 days	✓	24-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
KL 1	E372-U	19-Aug-2025	22-Aug-2025	28	3 days	✓	24-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
KL 2	E372-U	19-Aug-2025	22-Aug-2025	28	3 days	✓	24-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
KL 3	E372-U	19-Aug-2025	22-Aug-2025	28	3 days	✓	24-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)	T									
KL 4	E372-U	19-Aug-2025	22-Aug-2025	28	3 days	✓	24-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)	T	I								
KL 5	E372-U	19-Aug-2025	22-Aug-2025	28	3 days	✓	24-Aug-2025	28 days	3 days	✓
				days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)	T	I								
LSD	E372-U	19-Aug-2025	22-Aug-2025	28	3 days	✓	24-Aug-2025	28 days	3 days	✓
				days					-	
				1						

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Matrix: Water					Ev	/aluation: 😕 =	Holding time excee	edance ; 🕦	= Within	Holding Tim
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
LU	E372-U	19-Aug-2025	22-Aug-2025	28	3 days	✓	24-Aug-2025	28 days	3 days	✓
				days						
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
KL 1	E010	19-Aug-2025					20-Aug-2025	30 hrs	24 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
KL 5	E010	19-Aug-2025					20-Aug-2025	30 hrs	24 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
KL 2	E010	19-Aug-2025					20-Aug-2025	30 hrs	25 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
KL 4	E010	19-Aug-2025					20-Aug-2025	30 hrs	26 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
LSD	E010	19-Aug-2025					20-Aug-2025	30 hrs	26 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
KL 3	E010	19-Aug-2025					20-Aug-2025	30 hrs	27 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
LU	E010	19-Aug-2025					20-Aug-2025	30 hrs	27 hrs	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate)										
Sterile HDPE (sodium thiosulfate)										
HWY - 102 - 1	E010	19-Aug-2025					20-Aug-2025	30 hrs	28 hrs	✓

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Matrix: Water					E	/aluation. * =	Holding time exce	edance, v	= vviunin	Holding Time
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	reparation			Analys	is	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combu	stion (Low Level)									
Amber glass total (sulfuric acid)										
HWY - 102 - 1	E355-L	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combu	stion (Low Level)									
Amber glass total (sulfuric acid)										
KL 1	E355-L	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combu	stion (Low Level)									
Amber glass total (sulfuric acid)										
KL 2	E355-L	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combu	stion (Low Level)									
Amber glass total (sulfuric acid)										
KL 3	E355-L	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combu	stion (Low Level)									
Amber glass total (sulfuric acid)										
KL 4	E355-L	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combu	stion (Low Level)									
Amber glass total (sulfuric acid)										
KL 5	E355-L	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combu	stion (Low Level)									
Amber glass total (sulfuric acid)										
LSD	E355-L	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Organic / Inorganic Carbon : Total Organic Carbon (Non-Purgeable) by Combu	stion (Low Level)									
Amber glass total (sulfuric acid)										
LU	E355-L	19-Aug-2025	22-Aug-2025	28	3 days	✓	25-Aug-2025	28 days	3 days	✓
				days						
Physical Tests : Alkalinity Species by Titration										
HDPE										_
HWY - 102 - 1	E290	19-Aug-2025	21-Aug-2025	14	2 days	✓	22-Aug-2025	14 days	2 days	✓
				days						
				-	-		•			

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Matrix: Water					E۱	/aluation: 😕 =	Holding time exce	edance ; 🕦	/ = Within	Holding Tin
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pi	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration										
HDPE										
KL 1	E290	19-Aug-2025	21-Aug-2025	14	2 days	✓	22-Aug-2025	14 days	2 days	✓
				days						
Physical Tests : Alkalinity Species by Titration										
HDPE										
KL 2	E290	19-Aug-2025	21-Aug-2025	14	2 days	✓	22-Aug-2025	14 days	2 days	✓
				days						
Physical Tests : Alkalinity Species by Titration										
HDPE										
KL 3	E290	19-Aug-2025	21-Aug-2025	14	2 days	✓	22-Aug-2025	14 days	2 days	1
			Ĭ	days			Ĭ	,		
Physical Tests : Alkalinity Species by Titration				,						
HDPE							I			
KL 4	E290	19-Aug-2025	21-Aug-2025	14	2 days	1	22-Aug-2025	14 days	2 days	1
				days				, , , , ,		
Physical Tasta : Alkalinity Cussian by Titustian				,-						
Physical Tests : Alkalinity Species by Titration HDPE							I			
KL 5	E290	19-Aug-2025	21-Aug-2025	14	2 days	1	22-Aug-2025	14 days	2 days	1
NE 0	2230	10 / tug 2020	217 tag 2020	days	2 days		22 / lug 2020	14 days	2 days	
				days						
Physical Tests : Alkalinity Species by Titration HDPE				I	I		I			
LSD	E290	19-Aug-2025	21-Aug-2025	14	2 days	1	22-Aug-2025	14 days	2 days	1
LSD	L230	13-Aug-2020	21-Aug-2023	14	2 days	· ·	22-Aug-2023	14 days	2 days	,
				days						
Physical Tests : Alkalinity Species by Titration				T		I				
HDPE	E290	10 Aug 2025	24 Aug 2025		O dovo	√	22 Aug 2025	1.4 days	O days	1
LU	E290	19-Aug-2025	21-Aug-2025	14	2 days	*	22-Aug-2025	14 days	2 days	,
				days						
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE	F000	40 4 0005					00 4 0005	40.	70.	
KL 1	E330	19-Aug-2025					22-Aug-2025	48 hrs	70 hrs	*
										EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE										
KL 2	E330	19-Aug-2025					22-Aug-2025	48 hrs	71 hrs	34
										EHT

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Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / P	reparation		Analysis				
Container / Client Sample ID(s)			Preparation	Preparation Holding Times		Eval	Analysis Date	Holding Times		Eval	
			Date	Rec	Actual			Rec	Actual		
Physical Tests : Colour (Apparent) by Spectrometer											
HDPE											
KL 5	E330	19-Aug-2025					22-Aug-2025	48 hrs	71 hrs	*	
										EHT	
Physical Tests : Colour (Apparent) by Spectrometer											
HDPE		T									
LSD	E330	19-Aug-2025					22-Aug-2025	48 hrs	72 hrs	26	
							Ü			EHT	
Physical Tests : Colour (Apparent) by Spectrometer											
HDPE											
KL 3	E330	19-Aug-2025					22-Aug-2025	48 hrs	73 hrs	*	
							Ü			EHT	
Physical Tests : Colour (Apparent) by Spectrometer											
HDPE											
KL 4	E330	19-Aug-2025					22-Aug-2025	48 hrs	73 hrs	*	
TAL 4	2555	10 / tag 2020					LL / lug LuLu	1010	7010	EHT	
Physical Tests : Colour (Apparent) by Spectrometer HDPE			I								
LU	E330	19-Aug-2025					22-Aug-2025	48 hrs	73 hrs	*	
LO	L330	19-Aug-2023					22-Aug-2023	40 1113	751115	EHT	
										LIII	
Physical Tests : Colour (Apparent) by Spectrometer				I							
HDPE	F220	40 Aug 2025					00 Aug 000E	40 bro	74 bro		
HWY - 102 - 1	E330	19-Aug-2025					22-Aug-2025	48 hrs	74 hrs	*	
										EHT	
Physical Tests : Conductivity in Water											
HDPE	E400	40.4 0005				,				,	
HWY - 102 - 1	E100	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓	
				days							
Physical Tests : Conductivity in Water											
HDPE											
KL 1	E100	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓	
				days							
Physical Tests : Conductivity in Water											
HDPE											
KL 2	E100	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓	
				days							
					1						

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Matrix: Water					E	valuation: 😕 =	Holding time exce	edance ; 🕦	= Within	Holding Tim	
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / P	reparation		Analysis				
Container / Client Sample ID(s)				Holding Times		Eval	Analysis Date	Holding Times		Eval	
			Date	Rec	Actual			Rec	Actual		
Physical Tests : Conductivity in Water											
HDPE											
KL 3	E100	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓	
				days							
Physical Tests : Conductivity in Water											
HDPE											
KL 4	E100	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓	
				days							
Physical Tests : Conductivity in Water											
HDPE											
KL 5	E100	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓	
				days							
Physical Tests : Conductivity in Water											
HDPE											
LSD	E100	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓	
				days							
Physical Tests : Conductivity in Water											
HDPE											
LU	E100	19-Aug-2025	21-Aug-2025	28	2 days	✓	22-Aug-2025	28 days	2 days	✓	
				days							
Physical Tests : pH by Meter											
HDPE											
KL 1	E108	19-Aug-2025	21-Aug-2025	0.25	43 hrs	*	21-Aug-2025	0.25	43 hrs	86	
				hrs		EHTR-FM		hrs		EHTR-FM	
Physical Tests : pH by Meter											
HDPE											
KL 5	E108	19-Aug-2025	21-Aug-2025	0.25	43 hrs	*	21-Aug-2025	0.25	43 hrs		
				hrs		EHTR-FM		hrs		EHTR-FN	
Physical Tests: pH by Meter											
HDPE											
KL 2	E108	19-Aug-2025	21-Aug-2025	0.25	44 hrs	*	21-Aug-2025	0.25	44 hrs	*	
				hrs		EHTR-FM		hrs		EHTR-FM	
Physical Tests : pH by Meter											
HDPE		I									
KL 4	E108	19-Aug-2025	21-Aug-2025	0.25	45 hrs	*	21-Aug-2025	0.25	45 hrs	*	
				hrs		EHTR-FM		hrs		EHTR-FN	
								_			

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Matrix: Water Evaluation: × = Holding time exceedance: ✓ = Within Holding Time

Matrix: Water Evaluation: ★ = Holding time exceedance ; ✓ = Within Holding Time										
Analyte Group : Analytical Method	Method	Sampling Date	Ex	traction / P	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date Holding Times		g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter										
HDPE										
LSD	E108	19-Aug-2025	21-Aug-2025	0.25	45 hrs	*	21-Aug-2025	0.25	45 hrs	*
				hrs		EHTR-FM		hrs		EHTR-FN
Physical Tests: pH by Meter										
HDPE										
KL 3	E108	19-Aug-2025	21-Aug-2025	0.25	46 hrs	*	21-Aug-2025	0.25	46 hrs	34
				hrs		EHTR-FM		hrs		EHTR-FN
Physical Tests : pH by Meter										
HDPE										
LU	E108	19-Aug-2025	21-Aug-2025	0.25	46 hrs	*	21-Aug-2025	0.25	46 hrs	*
				hrs		EHTR-FM		hrs		EHTR-FN
Physical Tests : pH by Meter										
HDPE										
HWY - 102 - 1	E108	19-Aug-2025	21-Aug-2025	0.25	47 hrs	*	21-Aug-2025	0.25	47 hrs	36
				hrs		EHTR-FM		hrs		EHTR-FM
Physical Tests : TDS by Gravimetry										
HDPE										
HWY - 102 - 1	E162	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
KL 1	E162	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests: TDS by Gravimetry										
HDPE										
KL 2	E162	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
KL 3	E162	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE		T								
KL 4	E162	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
				1						

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Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pr	eparation			Analysis		
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date Holding Times		g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Physical Tests : TDS by Gravimetry										
HDPE										
KL 5	E162	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
LSD	E162	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
LU	E162	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
HWY - 102 - 1	E160	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests: TSS by Gravimetry										
HDPE										
KL 1	E160	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests: TSS by Gravimetry										
HDPE										
KL 2	E160	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests: TSS by Gravimetry										
HDPE										
KL 3	E160	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
Physical Tests: TSS by Gravimetry										
HDPE										
KL 4	E160	19-Aug-2025					21-Aug-2025	7 days	2 days	1
							J		,	
Physical Tests : TSS by Gravimetry										
HDPE										
KL 5	E160	19-Aug-2025					21-Aug-2025	7 days	2 days	✓
							J	,_	, -	

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Matrix: Water Evaluation: * = Holding time exceedance : ✓ = Within Holding Time

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Analyte Group : Analytical Method	Method	Sampling Date	Ext	raction / Pr	eparation			Analysis			
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval	
			Date	Rec	Actual			Rec	Actual		
Physical Tests : TSS by Gravimetry											
HDPE											
LSD	E160	19-Aug-2025					21-Aug-2025	7 days	2 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE											
LU	E160	19-Aug-2025					21-Aug-2025	7 days	2 days	✓	
		J						, .	,-		
Physical Tests : Turbidity by Nephelometry											
HDPE											
HWY - 102 - 1	E121	19-Aug-2025					21-Aug-2025	3 days	2 days	✓	
102		10 1 10 2 2 2 2 2					21 / lug 2020	o dayo	2 days		
Physical Tasta - Turkidita bu Manhalamata.											
Physical Tests : Turbidity by Nephelometry	I										
HDPE KL 1	E121	19-Aug-2025					21-Aug-2025	3 days	2 days	✓	
KL I	LIZI	19-Aug-2023					21-Aug-2025	3 uays	2 uays	·	
Physical Tests : Turbidity by Nephelometry											
HDPE	E404	40 405 0005					04 4 0005	O dave	O dave	✓	
KL 2	E121	19-Aug-2025					21-Aug-2025	3 days	2 days	•	
Physical Tests : Turbidity by Nephelometry											
HDPE										,	
KL 3	E121	19-Aug-2025					21-Aug-2025	3 days	2 days	✓	
Physical Tests : Turbidity by Nephelometry											
HDPE											
KL 4	E121	19-Aug-2025					21-Aug-2025	3 days	2 days	✓	
Physical Tests : Turbidity by Nephelometry											
HDPE											
KL 5	E121	19-Aug-2025					21-Aug-2025	3 days	2 days	✓	
Physical Tests : Turbidity by Nephelometry											
HDPE	T										
LSD	E121	19-Aug-2025					21-Aug-2025	3 days	2 days	✓	

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Matrix: Water					LV	aluation. * -	Holding time exce	cuance, •	- vviuiiii	Holding Time
Analyte Group : Analytical Method	Method	Sampling Date	Ex	traction / Pi	reparation			Analys	is	
Container / Client Sample ID(s)			Preparation Date	Holdin Rec	g Times Actual	Eval	Analysis Date	Holding Rec	Times Actual	Eval
Physical Tests : Turbidity by Nephelometry										
HDPE										
LU	E121	19-Aug-2025					21-Aug-2025	3 days	2 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube										
HWY - 102 - 1	E870B	19-Aug-2025	26-Aug-2025	28 days	7 days	✓	26-Aug-2025	28 days	7 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube										
KL 1	E870B	19-Aug-2025	26-Aug-2025	28 days	7 days	*	26-Aug-2025	28 days	7 days	√
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube KL 2	E870B	19-Aug-2025	26-Aug-2025	28 days	7 days	*	26-Aug-2025	28 days	7 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube KL 3	E870B	19-Aug-2025	26-Aug-2025	28 days	7 days	✓	26-Aug-2025	28 days	7 days	✓
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube KL 4	E870B	19-Aug-2025	26-Aug-2025	28 days	7 days	✓	26-Aug-2025	28 days	7 days	√
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube KL 5	E870B	19-Aug-2025	26-Aug-2025	28 days	7 days	✓	26-Aug-2025	28 days	7 days	√
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube LSD	E870B	19-Aug-2025	26-Aug-2025	28 days	7 days	✓	26-Aug-2025	28 days	7 days	1
Plant Pigments : Chlorophyll-a by Fluorometry (Support Lab Filtered µg)										
Opaque HDPE tube LU	E870B	19-Aug-2025	26-Aug-2025	28 days	7 days	✓	26-Aug-2025	28 days	7 days	✓

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

Matrix: Water						/aluation. * =	Holding time excee	edance, v	v = vviunin	Holding Time
Analyte Group : Analytical Method	Method	Sampling Date	Ext	traction / Pi	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE										
KL 1	EF870B	19-Aug-2025					20-Aug-2025	48 hrs	27 hrs	✓
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE	I									
KL 5	EF870B	19-Aug-2025					20-Aug-2025	48 hrs	27 hrs	1
							Ĭ			
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE	T T						I			
KL 2	EF870B	19-Aug-2025					20-Aug-2025	48 hrs	28 hrs	✓
							g			
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE										
LSD	EF870B	19-Aug-2025					20-Aug-2025	48 hrs	28 hrs	1
ESD	210102	15 / lug 2020					20 / lug 2020	401113	201113	
Accords Bosses (in a Billion bull a										
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory				1	I	<u> </u>				
Opaque HDPE	EF870B	10 Aug 2025					20-Aug-2025	48 hrs	29 hrs	√
KL 3	EF0/UB	19-Aug-2025					20-Aug-2025	40 1115	29 1115	*
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE										,
KL 4	EF870B	19-Aug-2025					20-Aug-2025	48 hrs	29 hrs	✓
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE										
LU	EF870B	19-Aug-2025					20-Aug-2025	48 hrs	30 hrs	✓
Sample Preparation : Chlorophyll-a Filtration by Support Laboratory										
Opaque HDPE										
HWY - 102 - 1	EF870B	19-Aug-2025					20-Aug-2025	48 hrs	31 hrs	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)	T									
HWY - 102 - 1	E420	19-Aug-2025	22-Aug-2025	180	3 days	✓	22-Aug-2025	180	3 days	✓
			Ĭ	days	1		Ĭ	days		
				,-				,-		

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

Analyte Group : Analytical Method	Method	Sampling Date	Ext	raction / Pr	reparation		Troiding time exect	Analysis			
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval	
			Date	Rec	Actual			Rec	Actual		
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) KL 1	E420	19-Aug-2025	22-Aug-2025	180 days	3 days	✓	22-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) KL 2	E420	19-Aug-2025	22-Aug-2025	180 days	3 days	✓	22-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) KL 3	E420	19-Aug-2025	22-Aug-2025	180 days	3 days	√	22-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) KL 4	E420	19-Aug-2025	22-Aug-2025	180 days	3 days	✓	22-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) KL 5	E420	19-Aug-2025	22-Aug-2025	180 days	3 days	√	22-Aug-2025	180 days	3 days	1	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) LSD	E420	19-Aug-2025	22-Aug-2025	180 days	3 days	✓	22-Aug-2025	180 days	3 days	1	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) LU	E420	19-Aug-2025	22-Aug-2025	180 days	3 days	✓	22-Aug-2025	180 days	3 days	✓	

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

EHT: Exceeded ALS recommended hold time prior to analysis.

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

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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	on: 🗴 = QC freque	ency outside spe	ecification; ✓ = 0	QC frequency wit	hin specification
Quality Control Sample Type				ount		Frequency (%))
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Total Coliforms and E. coli (Enzyme Substrate)	E010	2170776	1	14	7.1	5.0	✓
Conductivity in Water	E100	2173795	1	19	5.2	5.0	✓
pH by Meter	E108	2172860	1	20	5.0	5.0	✓
Turbidity by Nephelometry	E121	2174056	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	2172911	1	19	5.2	5.0	✓
TDS by Gravimetry	E162	2172906	1	17	5.8	5.2	✓
Chloride in Water by IC	E235.CI	2173793	1	19	5.2	5.0	✓
Fluoride in Water by IC	E235.F	2173791	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	2173792	1	19	5.2	5.0	✓
Nitrate in Water by IC	E235.NO3	2173790	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2173794	1	19	5.2	5.0	✓
Alkalinity Species by Titration	E290	2173796	1	19	5.2	5.0	✓
Ammonia by Fluorescence	E298	2175517	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2175515	1	20	5.0	5.0	√
Colour (Apparent) by Spectrometer	E330	2175898	1	20	5.0	5.0	✓
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	2175518	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2175516	1	20	5.0	5.0	✓
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2173798	1	20	5.0	5.0	✓
Reactive Silica by Colourimetry	E392	2180212	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2175156	1	20	5.0	5.0	✓
Chlorophyll-a by Fluorometry (Support Lab Filtered µg)	E870B	2182455	0	13	0.0	5.0	×
Laboratory Control Samples (LCS)							
Conductivity in Water	E100	2173795	1	19	5.2	5.0	✓
pH by Meter	E108	2172860	1	20	5.0	5.0	√
Turbidity by Nephelometry	E121	2174056	1	20	5.0	5.0	√
TSS by Gravimetry	E160	2172911	1	19	5.2	5.0	√
TDS by Gravimetry	E162	2172906	1	17	5.8	5.2	1
Chloride in Water by IC	E235.CI	2173793	1	19	5.2	5.0	√
Fluoride in Water by IC	E235.F	2173791	1	19	5.2	5.0	√
Nitrite in Water by IC	E235.NO2	2173792	1	19	5.2	5.0	√
Nitrate in Water by IC	E235.NO3	2173790	1	20	5.0	5.0	√
Sulfate in Water by IC	E235.SO4	2173794	1	19	5.2	5.0	√
Alkalinity Species by Titration	E290	2173796	1	19	5.2	5.0	✓
Ammonia by Fluorescence	E298	2175517	1	20	5.0	5.0	√
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	2175515	1	20	5.0	5.0	✓
Colour (Apparent) by Spectrometer	E330	2175898	1	20	5.0	5.0	

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Evaluation: **×** = QC frequency outside specification; **√** = QC frequency within specification. Matrix: Water Quality Control Sample Type Count Frequency (%) QC Regular Evaluation Method QC Lot # Expected Analytical Methods Actual Laboratory Control Samples (LCS) - Continued Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) 2175518 E355-L 20 5.0 5.0 1 5.0 5.0 Total Phosphorus by Colourimetry (0.002 mg/L) 2175516 20 E372-U 20 5.0 Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2173798 1 5.0 ✓ 2180212 Reactive Silica by Colourimetry 1 20 5.0 5.0 E392 Total Metals in Water by CRC ICPMS 20 5.0 5.0 E420 2175156 1 2182455 Chlorophyll-a by Fluorometry (Support Lab Filtered µg) 1 13 7.6 5.0 1 E870B Method Blanks (MB) Total Coliforms and E. coli (Enzyme Substrate) 2170776 14 7.1 5.0 E010 1 ✓ Conductivity in Water 2173795 1 19 5.2 5.0 ✓ E100 2174056 5.0 5.0 Turbidity by Nephelometry 1 20 E121 ✓ 2172911 1 19 5.2 5.0 TSS by Gravimetry ✓ E160 2172906 TDS by Gravimetry 1 17 5.8 5.2 E162 Chloride in Water by IC 2173793 1 19 5.2 5.0 E235.CI ✓ Fluoride in Water by IC 2173791 1 19 5.2 5.0 ✓ E235.F Nitrite in Water by IC 2173792 1 19 5.2 5.0 E235.NO2 2173790 Nitrate in Water by IC 1 20 5.0 5.0 **√** E235.NO3 Sulfate in Water by IC 2173794 19 5.2 5.0 E235.SO4 1 ✓ Alkalinity Species by Titration E290 2173796 1 19 5.2 5.0 Ammonia by Fluorescence 2175517 1 20 5.0 5.0 E298 1 Total Kjeldahl Nitrogen by Fluorescence (Low Level) E318 2175515 1 20 5.0 5.0 ✓ Colour (Apparent) by Spectrometer 2175898 1 20 5.0 5.0 E330 5.0 Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) E355-L 2175518 1 20 5.0 ✓ Total Phosphorus by Colourimetry (0.002 mg/L) E372-U 2175516 1 20 5.0 5.0 Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L) E378-U 2173798 1 20 5.0 5.0 2180212 Reactive Silica by Colourimetry E392 1 20 5.0 5.0 ✓ 2175156 20 5.0 5.0 Total Metals in Water by CRC ICPMS E420 1 Chlorophyll-a by Fluorometry (Support Lab Filtered µg) 2182455 13 7.6 5.0 E870B Matrix Spikes (MS) Chloride in Water by IC 2173793 1 19 5.2 5.0 E235.CI 5.2 Fluoride in Water by IC E235.F 2173791 1 19 5.0 ✓ Nitrite in Water by IC E235.NO2 2173792 1 19 5.2 5.0 ✓ 5.0 Nitrate in Water by IC E235.NO3 2173790 1 20 5.0 Sulfate in Water by IC E235.SO4 2173794 1 19 5.2 5.0 ✓ 2175517 5.0 5.0 Ammonia by Fluorescence E298 1 20 ✓ Total Kjeldahl Nitrogen by Fluorescence (Low Level) 2175515 1 20 5.0 5.0 E318 Total Organic Carbon (Non-Purgeable) by Combustion (Low Level) 2175518 1 20 5.0 5.0 E355-L ✓ Total Phosphorus by Colourimetry (0.002 mg/L) 2175516 1 20 5.0 5.0 E372-U ✓ Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L) 2173798 1 20 5.0 5.0 E378-U ✓ Reactive Silica by Colourimetry E392 2180212 1 20 5.0

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Matrix: Water Evaluation: × = QC frequency outside specification; √ = QC frequency within specification.

Matrix. Water		Lvaidation	i. •• – QO ircquc	noy outside spe	cincation, • - c	to inequency with	min specimeation.
Quality Control Sample Type			Co	unt		Frequency (%)	
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Matrix Spikes (MS) - Continued							
Total Metals in Water by CRC ICPMS	E420	2175156	1	20	5.0	5.0	✓

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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
Total Coliforms and E. coli (Enzyme Substrate)	E010	Water	APHA 9223 (mod)	The enzyme substrate test simultaneously detects Total Coliforms and E. coli in a 100 mL sample after incubation at 35.0 ±0.5°C for either 18 or 24 hours (dependent on
	ALS Environmental -			reagent used).
	Halifax			reagent useu).
Conductivity in Water	E100	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
	ALS Environmental -			sample. Conductivity measurements are temperature-compensated to 25°C.
	Waterloo			
pH by Meter	E108	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,
	ALS Environmental -			pH should be measured in the field within the recommended 15 minute hold time.
	Halifax			
Turbidity by Nephelometry	E121	Water	APHA 2130 B (mod)	Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.
	ALS Environmental -			
	Waterloo			
TSS by Gravimetry	E160	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
	ALS Environmental -			filtered solids. Samples containing very high dissolved solid content (i.e. seawaters,
	Halifax			brackish waters) may produce a positive bias by this method. Alternate analysis
				methods are available for these types of samples.
TDS by Gravimetry	E162	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,
	ALS Environmental -			with gravimetric measurement of the residue.
	Halifax			
Chloride in Water by IC	E235.CI	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
	ALS Environmental -			
	Waterloo			
Fluoride in Water by IC	E235.F	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
	ALS Environmental -			
	Waterloo			
Nitrite in Water by IC	E235.NO2	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
	ALS Environmental -			
	Waterloo			

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Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Nitrate in Water by IC	E235.NO3	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
	ALS Environmental - Waterloo			
Sulfate in Water by IC	E235.SO4	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
	ALS Environmental - Waterloo			
Alkalinity Species by Titration	E290	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
	ALS Environmental - Waterloo			alkalinity values.
Ammonia by Fluorescence	E298	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).
	ALS Environmental - Waterloo			This method is approved under US EPA 40 CFR Part 136 (May 2021)
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	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).
	ALS Environmental - Waterloo			This method is approved under US EPA 40 CFR Part 136 (May 2021).
Colour (Apparent) by Spectrometer	E330	Water	APHA 2120 C (mod)	Colour (Apparent) is measured in an unfiltered sample spectrophotometrically using the single wavelength method. The colour contribution of settleable solids are not included
	ALS Environmental - Waterloo			in the result. This method is intended for potable waters.
				Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment.
Total Organic Carbon (Non-Purgeable) by Combustion (Low Level)	E355-L	Water	APHA 5310 B (mod)	Total Organic Carbon (Non-Purgeable), also known as NPOC (total), is a direct measurement of TOC after an acidified sample has been purged to remove
	ALS Environmental - Waterloo			carbonate-based Inorganic Carbon (IC). Analysis is by high temperature combustion
	waterioo			with infrared detection of CO2. Forms of carbon associated with inorganic or organic molecules (e.g. SCN and CN) are included in NPOC if they are not removed by purging
				under acidic conditions. Notably, NPOC excludes most volatile organic compounds and free cyanide. For samples where the majority of Total Carbon is inorganic, this method
				provides greater accuracy and reliability versus the TOC by subtraction method (TC minus TIC).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
mg/L)	ALS Environmental -			persuitate digestion of the sample.
Dissolved Orthophosphate by Colourimetry	Waterloo E378-U	Water	APHA 4500-P F (mod)	Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab
(Ultra Trace Level 0.001 mg/L)	ALS Environmental -			or field filtered through a 0.45 micron membrane filter.
	Waterloo			Field filtration is recommended to ensure test results represent conditions at time of sampling.

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Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Reactive Silica by Colourimetry	E392 ALS Environmental - Winnipeg	Water	APHA 4500-SiO2 E (mod)	Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method using a discrete analyzer. Method Limitation: Arsenic (5+) above 100 mg/L is a negative interference on this test
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Waterloo	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Chlorophyll-a by Fluorometry (Support Lab Filtered µg)	E870B ALS Environmental - Winnipeg	Water	EPA 445.0 (mod)	Chlorophyll-a is determined by solvent extraction followed with analysis by fluorometry using the non-acidification procedure. Sampling volume not provided by client.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Waterloo	Water	APHA 2340B	"Hardness (as CaCO3), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO3 equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.
Ion Balance using Total Metals	EC101A ALS Environmental - Waterloo	Water	APHA 1030E	Cation Sum (using total metals), Anion Sum, and Ion Balance are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Minor ions are included where data is present. Ion Balance cannot be calculated accurately for waters with very low electrical conductivity (EC).
Saturation Index using Laboratory pH (Ca-T)	EC105A ALS Environmental - Waterloo	Water	APHA 2330B	Langelier Index provides an indication of scale formation potential at a given pH and temperature, and is calculated as per APHA 2330B Saturation Index. Positive values indicate oversaturation with respect to CaCO3. Negative values indicate undersaturation of CaCO3. This calculation uses laboratory pH measurements and provides estimates of Langelier Index at temperatures of 4, 15, 20, 25, 66, and 77°C. Ryznar Stability Index is an alternative index used for scale formation and corrosion potential.
Nitrate and Nitrite (as N) (Calculation)	EC235.N+N ALS Environmental - Waterloo	Water	EPA 300.0	Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).
Total Silicon as Silica (Calculation)	EC420.SiO2 ALS Environmental - Waterloo	Water	N/A	Total Silicon (as SiO2) is a calculated parameter. Total Silicon (as SiO2 mg/L) = 2.139 x Total Silicon (mg/L).
Chlorophyll-a by Fluorometry (Support Lab Filtered µg/L)	EC870B ALS Environmental - Winnipeg	Water	CALC	Convert results to sample concentration based on support lab filter information.

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Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chlorophyll-a Filtration by Support Laboratory	EF870B	Water	EPA 445.0 (mod)	Filtration for chlorophyll-a analysis
	ALS Environmental -			
	Halifax			
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
	ALS Environmental -			
	Waterloo			
Digestion for TKN in water	EP318	Water	APHA 4500-Norg D	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst,
			(mod)	which converts organic nitrogen sources to Ammonia, which is then quantified by the
	ALS Environmental -			analytical method as TKN. This method is unsuitable for samples containing high levels
	Waterloo			of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be
				biased low.
Preparation for Total Organic Carbon by	EP355	Water		Preparation for Total Organic Carbon by Combustion
Combustion				
	ALS Environmental -			
	Waterloo			
Digestion for Total Phosphorus in water	EP372	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
	ALS Environmental -			
	Waterloo			
Chlorophyll-a Extraction (Support Lab Filtered)	EP870B	Water	EPA 445.0 (mod)	Chlorophyll-a solvent extraction.
	ALS Environmental -			
	Winnipeg			

ALS Canada Ltd.



QUALITY CONTROL REPORT

Work Order : HA2503197

Client :WSP Canada Inc.
Contact :Naomi Giles

Address : 1 Spectacle Lake Drive

Dartmouth NS Canada B3B 1X7

Telephone :---

Project : CA0052759.2572
PO : P115454CA1
C-O-C number : 20-1022524

Sampler : JH / MO

Site :---

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No. of samples received : 8
No. of samples analysed : 8

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Laboratory ; ALS Environmental - Halifax

Account Manager : Amanda Overholster
Address : 13-100 Wright Ave

Dartmouth, Nova Scotia Canada B3B 1L2

Telephone : 1 416 817 2944

Date Samples Received : 19-Aug-2025 14:50

Date Analysis Commenced : 20-Aug-2025

Issue Date : 28-Aug-2025 14:56

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	
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario	
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario	
Jiaxi Wang	Supervisor - Water Chemistry	Halifax Inorganics, Dartmouth, Nova Scotia	
Jiaxi Wang	Supervisor - Water Chemistry	Halifax Microbiology, Dartmouth, Nova Scotia	
Jon Fisher	Production Manager, Environmental	Halifax Inorganics, Dartmouth, Nova Scotia	
Kevin Baxter	Supervisor - Inorganic	Winnipeg Inorganics, Winnipeg, Manitoba	
Lee McTavish		Winnipeg Inorganics, Winnipeg, Manitoba	
Robyn MacCormack	Analyst	Halifax Administration, Dartmouth, Nova Scotia	

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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.

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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							Labora	tory Duplicate (D	UP) 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											
HA2503197-001	HWY - 102 - 1	pH		E108	0.10	pH units	6.89	6.74	2.29%	4%	
Physical Tests (QC	Lot: 2172906)										
HA2503197-001	HWY - 102 - 1	Solids, total dissolved [TDS]		E162	20	mg/L	343	354	3.01%	20%	
Physical Tests (QC	Lot: 2172911)										
HA2503197-001	HWY - 102 - 1	Solids, total suspended [TSS]		E160	3.0	mg/L	13.2	9.8	3.4	Diff <2x LOR	
Physical Tests (QC	Lot: 2173795)										
HA2503198-001	Anonymous	Conductivity	-	E100	1.0	μS/cm	51.2	51.1	0.196%	10%	_
Physical Tests (QC	Lot: 2173796)										
HA2503198-001	Anonymous	Alkalinity, total (as CaCO3)		E290	1.0	mg/L	8.2	8.3	0.1	Diff <2x LOR	
Physical Tests (QC	Lot: 2174056)										
HA2503197-001	HWY - 102 - 1	Turbidity		E121	0.10	NTU	1.53	1.42	7.45%	15%	
Physical Tests (QC	Lot: 2175898)										
HA2503197-001	HWY - 102 - 1	Colour, apparent		E330	2.0	CU	65.9	65.8	0.180%	20%	
Anions and Nutrient	s (QC Lot: 2173790)										
HA2503197-001	HWY - 102 - 1	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	0.131	0.128	0.003	Diff <2x LOR	
Anions and Nutrient	s (QC Lot: 2173791)										
HA2503197-001	HWY - 102 - 1	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.038	0.038	0.00001	Diff <2x LOR	
Anions and Nutrient	s (QC Lot: 2173792)										
HA2503197-001	HWY - 102 - 1	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	
Anions and Nutrient	s (QC Lot: 2173793)										
HA2503197-001	HWY - 102 - 1	Chloride	16887-00-6	E235.Cl	0.50	mg/L	152	152	0.0866%	20%	
Anions and Nutrient	s (QC Lot: 2173794)										
HA2503197-001	HWY - 102 - 1	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	15.9	15.8	0.474%	20%	
Anions and Nutrient	s (QC Lot: 2173798)										
HA2502936-001	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0010	mg/L	0.0066	0.0066	0.00003	Diff <2x LOR	
Anions and Nutrient	s (QC Lot: 2175515)										
HA2503197-001	HWY - 102 - 1	Kjeldahl nitrogen, total [TKN]	_	E318	0.050	mg/L	0.902	0.848	6.19%	20%	
Anions and Nutrient	s (QC Lot: 2175516)										
HA2503197-002	LU	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0090	0.0078	0.0012	Diff <2x LOR	
Anione and Nutrient	s (QC Lot: 2175517)										

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Sub-Matrix: Water	Case Continued Case Ca						Labora	tory Duplicate (D	UP) Report		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
		continued									
HA2503197-003	KL3	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0161	0.0130	0.0031	Diff <2x LOR	
Anions and Nutrient	ts (QC Lot: 2180212)										
HA2503197-001	HWY - 102 - 1	Silicate (as SiO2)	7631-86-9	E392	0.50	mg/L	7.86	7.77	1.21%	20%	
Organic / Inorganic	Carbon (QC Lot: 21755	18)									
HA2503197-004	KL 4	Carbon, total organic [TOC]	_	E355-L	0.50	mg/L	4.13	4.43	0.30	Diff <2x LOR	
Microbiological Tes	ts (QC Lot: 2170776)										
HA2503186-001	Anonymous	Coliforms, Escherichia coli [E. coli]		E010	1	MPN/100mL	172	162	6.52%	65%	
		Coliforms, total	_	E010	1	MPN/100mL	>2420	>2420	0.00%	65%	
Total Metals (QC Lo	ot: 2175156)										
HA2503208-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0300	mg/L	<0.0300	<0.0300	0	Diff <2x LOR	
		Antimony, total	7440-36-0	E420	0.00100	mg/L	0.0303	0.0305	0.661%	20%	
		Arsenic, total	7440-38-2	E420	0.00100	mg/L	0.0107	0.0111	3.98%	20%	
		Barium, total	7440-39-3	E420	0.00100	mg/L	0.0388	0.0387	0.209%	20%	
		Bismuth, total	7440-69-9	E420	0.000500	mg/L	<0.000500	<0.000500	0	Diff <2x LOR	
		Boron, total	7440-42-8	E420	0.100	mg/L	0.346	0.352	0.006	Diff <2x LOR	
		Cadmium, total	7440-43-9	E420	0.0000500	mg/L	0.0148	0.0147	0.900%	20%	
		Calcium, total	7440-70-2	E420	0.500	mg/L	68.8	69.4	0.829%	20%	
		Chromium, total	7440-47-3	E420	0.00500	mg/L	<0.00500	<0.00500	0	Diff <2x LOR	
		Cobalt, total	7440-48-4	E420	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	
		Copper, total	7440-50-8	E420	0.00500	mg/L	0.0117	0.0120	0.00034	Diff <2x LOR	
		Iron, total	7439-89-6	E420	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	
		Lead, total	7439-92-1	E420	0.000500	mg/L	0.00226	0.00227	0.000003	Diff <2x LOR	
		Magnesium, total	7439-95-4	E420	0.0500	mg/L	1.87	1.96	4.54%	20%	
		Manganese, total	7439-96-5	E420	0.00100	mg/L	0.00383	0.00456	0.00073	Diff <2x LOR	
		Molybdenum, total	7439-98-7	E420	0.000500	mg/L	0.00412	0.00402	0.000100	Diff <2x LOR	
		Nickel, total	7440-02-0	E420	0.00500	mg/L	0.00698	0.0116	0.00460	Diff <2x LOR	
		Potassium, total	7440-09-7	E420	0.500	mg/L	13.4	13.5	0.609%	20%	
		Selenium, total	7782-49-2	E420	0.000500	mg/L	0.0147	0.0151	2.77%	20%	
		Silicon, total	7440-21-3	E420	1.00	mg/L	3.34	3.34	0.005	Diff <2x LOR	
		Silver, total	7440-22-4	E420	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	
		Sodium, total	7440-23-5	E420	0.500	mg/L	53.2	53.7	0.997%	20%	
		Strontium, total	7440-24-6	E420	0.00200	mg/L	0.214	0.214	0.0140%	20%	
		Thallium, total	7440-28-0	E420	0.000100	mg/L	0.740	0.742	0.331%	20%	
		Tin, total	7440-31-5	E420	0.00100	mg/L	0.00482	0.00503	0.00021	Diff <2x LOR	
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Sub-Matrix: Water	ıb-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
Total Metals (QC Lot: 2175156) - continued											
HA2503208-001	Anonymous	Titanium, total	7440-32-6	E420	0.00300	mg/L	<0.00300	<0.00300	0	Diff <2x LOR	
		Uranium, total	7440-61-1	E420	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	
		Vanadium, total	7440-62-2	E420	0.00500	mg/L	<0.00500	<0.00500	0	Diff <2x LOR	
		Zinc, total	7440-66-6	E420	0.0300	mg/L	0.0354	0.0393	0.0039	Diff <2x LOR	

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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

nalyte	CAS Number Method	LOR	Unit	Result	Qualifier
hysical Tests (QCLot: 2172906)					
Solids, total dissolved [TDS]	E162	10	mg/L	<10	
hysical Tests (QCLot: 2172911)					
Solids, total suspended [TSS]	E160	3	mg/L	<3.0	
hysical Tests (QCLot: 2173795)					
Conductivity	E100	1	μS/cm	<1.0	
hysical Tests (QCLot: 2173796)					
Alkalinity, total (as CaCO3)	— E290	1	mg/L	<1.0	
hysical Tests (QCLot: 2174056)					
Turbidity	— E121	0.1	NTU	<0.10	
hysical Tests (QCLot: 2175898)					
Colour, apparent	— E330	2	CU	<2.0	
nions and Nutrients (QCLot: 2173790)					
Nitrate (as N)	14797-55-8 E235.NO3	0.02	mg/L	<0.020	
nions and Nutrients (QCLot: 2173791)					
Fluoride	16984-48-8 E235.F	0.02	mg/L	<0.020	
nions and Nutrients (QCLot: 2173792)					
Nitrite (as N)	14797-65-0 E235.NO2	0.01	mg/L	<0.010	
nions and Nutrients (QCLot: 2173793)					
Chloride	16887-00-6 E235.CI	0.5	mg/L	<0.50	
nions and Nutrients (QCLot: 2173794)					
Sulfate (as SO4)	14808-79-8 E235.SO4	0.3	mg/L	<0.30	
nions and Nutrients (QCLot: 2173798)					
Phosphate, ortho-, dissolved (as P)	14265-44-2 E378-U	0.001	mg/L	<0.0010	
nions and Nutrients (QCLot: 2175515)					
Kjeldahl nitrogen, total [TKN]	E318	0.05	mg/L	<0.050	
nions and Nutrients (QCLot: 2175516)					
Phosphorus, total	7723-14-0 E372-U	0.002	mg/L	<0.0020	_
nions and Nutrients (QCLot: 2175517)					
Ammonia, total (as N)	7664-41-7 E298	0.005	mg/L	<0.0050	-
nions and Nutrients (QCLot: 2180212)				2.50	
Silicate (as SiO2)	7631-86-9 E392	0.5	mg/L	<0.50	

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Sub-Matrix: Water

nalyte	CAS Number Method	LOR	Unit	Result	Qualifier
rganic / Inorganic Carbon (QCLot: 21	75518) - continued				
Carbon, total organic [TOC]	E355-L	0.5	mg/L	<0.50	
icrobiological Tests (QCLot: 2170776					
Coliforms, Escherichia coli [E. coli]	E010	1	MPN/100mL	<1	_
Coliforms, total	E010	1	MPN/100mL	<1	_
otal Metals (QCLot: 2175156)					
Aluminum, total	7429-90-5 E420	0.003	mg/L	<0.0030	_
Antimony, total	7440-36-0 E420	0.0001	mg/L	<0.00010	
Arsenic, total	7440-38-2 E420	0.0001	mg/L	<0.00010	_
Barium, total	7440-39-3 E420	0.0001	mg/L	<0.00010	
Bismuth, total	7440-69-9 E420	0.00005	mg/L	<0.000050	
Boron, total	7440-42-8 E420	0.01	mg/L	<0.010	
Cadmium, total	7440-43-9 E420	0.000005	mg/L	<0.000050	
Calcium, total	7440-70-2 E420	0.05	mg/L	<0.050	
Chromium, total	7440-47-3 E420	0.0005	mg/L	<0.00050	
Cobalt, total	7440-48-4 E420	0.0001	mg/L	<0.00010	
Copper, total	7440-50-8 E420	0.0005	mg/L	<0.00050	
Iron, total	7439-89-6 E420	0.01	mg/L	<0.010	_
Lead, total	7439-92-1 E420	0.00005	mg/L	<0.000050	_
Magnesium, total	7439-95-4 E420	0.005	mg/L	<0.0050	
Manganese, total	7439-96-5 E420	0.0001	mg/L	<0.00010	_
Molybdenum, total	7439-98-7 E420	0.00005	mg/L	<0.000050	
Nickel, total	7440-02-0 E420	0.0005	mg/L	<0.00050	
Potassium, total	7440-09-7 E420	0.05	mg/L	<0.050	
Selenium, total	7782-49-2 E420	0.00005	mg/L	<0.000050	
Silicon, total	7440-21-3 E420	0.1	mg/L	<0.10	
Silver, total	7440-22-4 E420	0.00001	mg/L	<0.000010	
Sodium, total	7440-23-5 E420	0.05	mg/L	<0.050	
Strontium, total	7440-24-6 E420	0.0002	mg/L	<0.00020	
Thallium, total	7440-28-0 E420	0.00001	mg/L	<0.000010	
Tin, total	7440-31-5 E420	0.0001	mg/L	<0.00010	
Titanium, total	7440-32-6 E420	0.0003	mg/L	<0.00030	
Uranium, total	7440-61-1 E420	0.00001	mg/L	<0.000010	
Vanadium, total	7440-62-2 E420	0.0005	mg/L	<0.00050	
Zinc, total	7440-66-6 E420	0.003	mg/L	<0.0030	

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Sub-Matrix: Water

Analyte	CAS Numb	er Method	LOR	Unit	Result	Qualifier
Plant Pigr	nents (QCLot: 2182455) - continued					
Chlorophy	la 479-61	8 E870B	0.002	μg/sample	<0.0020	

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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 Co	ntrol Sample (LCS)	Report	
					Spike	Recovery (%)	Recovery	Limits (%)	
Analyte	CAS Number Metho	od	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2172860)									
рН	E108			pH units	7 pH units	101	98.0	102	
Physical Tests (QCLot: 2172906)	IE400		40		4000 #	00.5	05.0	445	
Solids, total dissolved [TDS]	E162		10	mg/L	1000 mg/L	96.5	85.0	115	
Physical Tests (QCLot: 2172911) Solids, total suspended [TSS]	E160		3	ma/l	150 mg/L	99.3	85.0	115	
	100		3	mg/L	150 mg/L	33.3	05.0	115	
Physical Tests (QCLot: 2173795) Conductivity	E100		1	μS/cm	1410 µS/cm	102	90.0	110	
,	2.00			porom	Tro poroni	.52	55.5		
Physical Tests (QCLot: 2173796) Alkalinity, total (as CaCO3)	E290		1	mg/L	150 mg/L	102	85.0	115	
Physical Tests (QCLot: 2174056)									
Turbidity	E121		0.1	NTU	200 NTU	93.0	85.0	115	
Physical Tests (QCLot: 2175898)									
Colour, apparent	— E330		2	CU	25 CU	103	85.0	115	_
Anions and Nutrients (QCLot: 2173790)									
Nitrate (as N)	14797-55-8 E235.	NO3	0.02	mg/L	2.5 mg/L	100	90.0	110	_
Anions and Nutrients (QCLot: 2173791)	16984-48-8 E235.		0.02		1	400	00.0	110	
Fluoride	16904-40-0 E235.	.r	0.02	mg/L	1 mg/L	106	90.0	110	
Anions and Nutrients (QCLot: 2173792) Nitrite (as N)	14797-65-0 E235.	NO2	0.01	mg/L	0.5 mg/L	104	90.0	110	
,	14737 03 0 12233.	1102	0.01	mg/L	0.5 mg/L	104	30.0	110	
Anions and Nutrients (QCLot: 2173793) Chloride	16887-00-6 E235.	CI	0.5	mg/L	100 mg/L	101	90.0	110	
Anions and Nutrients (QCLot: 2173794)									
Sulfate (as SO4)	14808-79-8 E235.	SO4	0.3	mg/L	100 mg/L	101	90.0	110	
Anions and Nutrients (QCLot: 2173798)									
Phosphate, ortho-, dissolved (as P)	14265-44-2 E378-	-U	0.001	mg/L	0.05 mg/L	100	80.0	120	
Anions and Nutrients (QCLot: 2175515)									
Kjeldahl nitrogen, total [TKN]	E318		0.05	mg/L	4 mg/L	101	75.0	125	_
Anions and Nutrients (QCLot: 2175516)									
Phosphorus, total	7723-14-0 E372-	-U	0.002	mg/L	0.333 mg/L	100	80.0	120	_
Anions and Nutrients (QCLot: 2175517)									
Ammonia, total (as N)	7664-41-7 E298		0.005	mg/L	0.2 mg/L	104	85.0	115	

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ub-Matrix: Water					Laboratory Control Sample (LCS) Report					
					Spike	Recovery (%)	Recovery	Limits (%)		
Analyte	CAS Number Me	ethod	LOR	Unit	Target Concentration	LCS	Low	High	Qualifie	
Anions and Nutrients (QCLot: 2180212)										
Silicate (as SiO2)	7631-86-9 E3	92	0.5	mg/L	10 mg/L	111	85.0	115	_	
Organic / Inorganic Carbon (QCLot: 21755										
Carbon, total organic [TOC]	E3:	55-L	0.5	mg/L	8.57 mg/L	109	80.0	120	_	
Fotal Metals (QCLot: 2175156)										
Aluminum, total	7429-90-5 E4	20	0.003	mg/L	0.1 mg/L	102	80.0	120		
Antimony, total	7440-36-0 E4:		0.0001	mg/L	0.05 mg/L	97.3	80.0	120		
Arsenic, total	7440-38-2 E43	20	0.0001	mg/L	0.05 mg/L	103	80.0	120		
Barium, total	7440-39-3 E4	20	0.0001	mg/L	0.012 mg/L	99.8	80.0	120	_	
Bismuth, total	7440-69-9 E42	20	0.00005	mg/L	0.05 mg/L	96.9	80.0	120	_	
Boron, total	7440-42-8 E4	20	0.01	mg/L	0.05 mg/L	99.6	80.0	120		
Cadmium, total	7440-43-9 E43	20	0.000005	mg/L	0.005 mg/L	96.7	80.0	120		
Calcium, total	7440-70-2 E43	20	0.05	mg/L	2.5 mg/L	94.7	80.0	120		
Chromium, total	7440-47-3 E4	20	0.0005	mg/L	0.012 mg/L	98.6	80.0	120		
Cobalt, total	7440-48-4 E4	20	0.0001	mg/L	0.012 mg/L	97.2	80.0	120		
Copper, total	7440-50-8 E4	20	0.0005	mg/L	0.012 mg/L	95.8	80.0	120	_	
ron, total	7439-89-6 E4	20	0.01	mg/L	0.05 mg/L	94.2	80.0	120		
Lead, total	7439-92-1 E43	20	0.00005	mg/L	0.025 mg/L	97.2	80.0	120		
Magnesium, total	7439-95-4 E4	20	0.005	mg/L	2.5 mg/L	101	80.0	120		
Manganese, total	7439-96-5 E4	20	0.0001	mg/L	0.012 mg/L	98.4	80.0	120		
Molybdenum, total	7439-98-7 E4	20	0.00005	mg/L	0.012 mg/L	95.3	80.0	120		
Nickel, total	7440-02-0 E4	20	0.0005	mg/L	0.025 mg/L	96.0	80.0	120		
Potassium, total	7440-09-7 E4:	20	0.05	mg/L	2.5 mg/L	99.9	80.0	120		
Selenium, total	7782-49-2 E4	20	0.00005	mg/L	0.05 mg/L	96.6	80.0	120		
Silicon, total	7440-21-3 E4:	20	0.1	mg/L	0.5 mg/L	98.7	80.0	120		
Silver, total	7440-22-4 E4:	20	0.00001	mg/L	0.005 mg/L	86.7	80.0	120		
Sodium, total	7440-23-5 E4:	20	0.05	mg/L	2.5 mg/L	101	80.0	120	_	
Strontium, total	7440-24-6 E4:	20	0.0002	mg/L	0.012 mg/L	96.1	80.0	120	_	
Fhallium, total	7440-28-0 E43	20	0.00001	mg/L	0.05 mg/L	97.6	80.0	120	_	
Fin, total	7440-31-5 E4	20	0.0001	mg/L	0.025 mg/L	95.7	80.0	120	_	
Fitanium, total	7440-32-6 E43	20	0.0003	mg/L	0.012 mg/L	98.6	80.0	120		
Jranium, total	7440-61-1 E4	20	0.00001	mg/L	0 mg/L	95.3	80.0	120		
/anadium, total	7440-62-2 E4	20	0.0005	mg/L	0.025 mg/L	98.4	80.0	120		
Zinc, total	7440-66-6 E4		0.003	mg/L	0.025 mg/L	98.0	80.0	120		

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Sub-Matrix: Water	b-Matrix: Water						Laboratory Control Sample (LCS) Report					
	Spike	Recovery (%) Recovery Limits (%)		Limits (%)								
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier			
Plant Pigments (QCLot: 2182455)												
Chlorophyll a	479-61-8	E870B	0.002	μg/sample	1.07 μg/sample	92.8	80.0	120	_			

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Matrix Spike (MS) Report

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

Sub-Matrix: Water	orace sumple (or similar sar	nples) may be subject to bias. ND – F	tooovery not deteri	mica, buckground it	TA Spine level.		Matrix Spik	e (MS) Report		
					Spi	ke	Recovery (%)	Recovery	Limits (%)	
Laboratory sample	ID Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nut	rients (QCLot: 2173790)									
HA2503197-001	HWY - 102 - 1	Nitrate (as N)	14797-55-8	E235.NO3	2.50 mg/L	2.5 mg/L	100	75.0	125	
Anions and Nut	rients (QCLot: 2173791)									
HA2503197-001	HWY - 102 - 1	Fluoride	16984-48-8	E235.F	1.06 mg/L	1 mg/L	106	75.0	125	
Anions and Nut	rients (QCLot: 2173792)									
HA2503197-001	HWY - 102 - 1	Nitrite (as N)	14797-65-0	E235.NO2	0.498 mg/L	0.5 mg/L	99.7	75.0	125	_
Anions and Nut	rients (QCLot: 2173793)									
HA2503197-001	HWY - 102 - 1	Chloride	16887-00-6	E235.Cl	ND mg/L		ND	75.0	125	_
Anions and Nut	rients (QCLot: 2173794)									
HA2503197-001	HWY - 102 - 1	Sulfate (as SO4)	14808-79-8	E235.SO4	99.6 mg/L	100 mg/L	99.6	75.0	125	_
Anions and Nut	rients (QCLot: 2173798)									
HA2502936-001	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0188 mg/L	0.02 mg/L	95.8	70.0	130	
Anions and Nut	rients (QCLot: 2175515)									
HA2503197-001	HWY - 102 - 1	Kjeldahl nitrogen, total [TKN]		E318	2.72 mg/L	2.5 mg/L	109	70.0	130	
Anions and Nut	rients (QCLot: 2175516)									
HA2503197-002	LU	Phosphorus, total	7723-14-0	E372-U	0.0934 mg/L	0.1 mg/L	93.4	70.0	130	_
Anions and Nut	rients (QCLot: 2175517)									
HA2503197-003	KL 3	Ammonia, total (as N)	7664-41-7	E298	0.104 mg/L	0.1 mg/L	104	75.0	125	
Anions and Nut	rients (QCLot: 2180212)									
HA2503197-002	LU	Silicate (as SiO2)	7631-86-9	E392	11.8 mg/L	10 mg/L	118	75.0	125	
Organic / Inorga	anic Carbon (QCLot: 217	75518)								
HA2503197-004	KL 4	Carbon, total organic [TOC]		E355-L	5.32 mg/L	5 mg/L	106	70.0	130	
Total Metals (Q	CLot: 2175156)									
HA2503209-001	Anonymous	Aluminum, total	7429-90-5	E420	ND mg/L	_	ND	70.0	130	
		Antimony, total	7440-36-0	E420	0.0501 mg/L	0.05 mg/L	100	70.0	130	
		Arsenic, total	7440-38-2	E420	ND mg/L		ND	70.0	130	_
		Barium, total	7440-39-3	E420	ND mg/L		ND	70.0	130	
		Bismuth, total	7440-69-9	E420	0.0518 mg/L	0.05 mg/L	104	70.0	130	
		Boron, total	7440-42-8	E420	ND mg/L		ND	70.0	130	
		Cadmium, total	7440-43-9	E420	ND mg/L		ND	70.0	130	
		Calcium, total	7440-70-2	E420	ND mg/L		ND	70.0	130	
		Chromium, total	7440-47-3	E420	0.0136 mg/L	0.012 mg/L	109	70.0	130	
		Cobalt, total	7440-48-4	E420	0.0125 mg/L	0.012 mg/L	100	70.0	130	
	1	Copper, total	7440-50-8	E420	ND mg/L		ND	70.0	130	

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Sub-Matrix: Water							Matrix Spil	ke (MS) Report		
					Spi	ke	Recovery (%)	Recovery	Limits (%)	
Laboratory sample IE	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QC	Lot: 2175156) - continu	ed								
HA2503209-001	Anonymous	Iron, total	7439-89-6	E420	ND mg/L		ND	70.0	130	
		Lead, total	7439-92-1	E420	ND mg/L		ND	70.0	130	
		Magnesium, total	7439-95-4	E420	ND mg/L		ND	70.0	130	
		Manganese, total	7439-96-5	E420	ND mg/L		ND	70.0	130	
		Molybdenum, total	7439-98-7	E420	0.0122 mg/L	0.012 mg/L	97.9	70.0	130	
		Nickel, total	7440-02-0	E420	0.0140 mg/L	0.025 mg/L	56.2	70.0	130	K
		Potassium, total	7440-09-7	E420	ND mg/L		ND	70.0	130	
		Selenium, total	7782-49-2	E420	0.0520 mg/L	0.05 mg/L	104	70.0	130	
		Silicon, total	7440-21-3	E420	ND mg/L		ND	70.0	130	
		Silver, total	7440-22-4	E420	0.00457 mg/L	0.005 mg/L	91.4	70.0	130	
		Sodium, total	7440-23-5	E420	ND mg/L		ND	70.0	130	
		Strontium, total	7440-24-6	E420	ND mg/L		ND	70.0	130	
		Thallium, total	7440-28-0	E420	ND mg/L		ND	70.0	130	
		Tin, total	7440-31-5	E420	0.0250 mg/L	0.025 mg/L	100	70.0	130	
		Titanium, total	7440-32-6	E420	0.0116 mg/L	0.012 mg/L	93.0	70.0	130	
		Uranium, total	7440-61-1	E420	0.000254 mg/L	0 mg/L	102	70.0	130	
		Vanadium, total	7440-62-2	E420	0.0269 mg/L	0.025 mg/L	108	70.0	130	
		Zinc, total	7440-66-6	E420	ND mg/L		ND	70.0	130	

Qualifiers

Qualifier Description

K Matrix Spike recovery outside ALS DQO due to sample matrix effects.

Chain of Custody (COC) / Analytical Request Form

A	LS

Request Form COC Number: 20 - 1022524

ALS	www.alsglobal.com		Canada Toll	Free: 1 800 668	9878								Page	1	of					
Report To	Contact and company name below will appear on the final report	The state of the s	Reports / I	Recipients	10.000	1		Tı	urnarou	and Tir	me (TA	T) Regu	ested	-			ental	Divi	sion	1
Company: Contact: Phone:	WSP Canada Inc. Naomi Giles 782-640-1923 Company address below will appear on the final report		rmat: PDF Reports with COA Its to Criteria on Report	EXCEL DED	□ N/A box checked	0 4	day [P4 day [P3 day [P2	R] if recei	eived by ived by 3 eived by eived by	3pm M 3pm M- 3pm M 3pm M	I-F - no I-F - 25% I-F - 50%	surcharge rush sur 6 rush su 6 rush su	s apply charge minimurcharge minimurcharge minimurcharge	ium		ork Or	der Ref 250			7
Street: City/Province: Postal Code:	1 Spectace Lake Dr Dartmouth, NS B3B 1X2	Email 1 or Fax Email 2 M &	Naomi. C. Hhew. Oc.	iles@w	sp.com	П	iame day nay apply	(E2) if r to rush	received I	by 10am on week	M-S - : kends, st	200% rust atutory ho	rcharge mirim n surcharge. Ad ildays and non-	ditional						
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Are samples take	n from a Regulated DW System?	. 10	excel COC only)	-		200000	ing Me		THE RESERVE TO SHARE	NONE	AND RESIDENCE OF THE PERSON NAMED IN	MICHIGAN CO.	ICE PACKS	THE RESERVE OF THE PERSON NAMED IN	HEARING CHARLES	CONTRACTOR OF THE PARTY OF	COOLING	de State de	TED	
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GENERAL TERMS AND CONDITIONS:

These terms and conditions are incorporated in and form part of the Agreement between ALS Group's Environmental Division and the party named in the Offer (the "Client").

- 1. Definitions. Capitalized Terms not defined in these Terms and Conditions have the definitions set out in the other Agreement documents.
- 2. The Services, ALS will provide the Services to the Client as described in the Offer and in any chain of custody form provided with any sample. Unless otherwise agreed, ALS may elect to re-allocate testing, without prior notice, to other ALS Canada laboratories with equivalent services and applicable accreditations and licenses, if required to prevent hold time or due date exceedance due to unanticipated over-capacity situations.
- 3. Prices, ALS may review and change all prices, fees, surcharges or other charges set out in the Agreement if there are changes to ALS's cost beyond ALS's control, including changes in legislative requirements. Client variations of sample numbers and Client requests for changes to standard reporting requirements. Not with standing Condition 3, all quotations expire after three years.
- 4. Payment Terms. The Client shall pay ALS within 30 days of the invoice date OAC. ALS may, for reasonable business reasons, require the Client to arrange for payment in advance.
- 5. Quotation Numbers. The Client shall provide the quotation number to ALS (where applicable) to ensure correct priging.
- 6. Taxes. Applicable taxes are not included in prices. Applicable surcharges and additional fees will be added at the time of invoicing.
- 7. Quality Control. ALS has an extensive QA/QC program. Clients' samples are analyzed using approved, referenced procedures followed by thorough data validation prior to reporting of the analytical results.
- 8. Test Results. Results are obtained from analytical measurements that are subject to inherent variability. Measurement results reflect characteristics of submitted test samples at time of analysis. The Client is responsible for informing itself on the limitation of test results and acknowledges that test results are not guaranteed. When statements of conformity are requested on test reports (e.g., within Criteria Reports), measurement uncertainty is not applied to test results prior to the
- 9. Standard of Care, ALS will use reasonable care and diligence as required by the laws of the province or territory where the sample is tested.
- 10. Storage, Where possible, ALS will store; soil and water samples for 45 days from date of receipt, air samples for 6 months from date of receipt, air samples or re-usable media for 14 days from date of receipt, and microbiological samples for 3 days from date of receipt.
- 11. Holds, if the Client requests a sample to be placed on hold. ALS will store the samples according to paragraph 10, after which ALS will invoice the Client and discard the sample. Each sample is subject to a minimum \$5,00 hold fee, Longer hold. periods are available upon request. See paragraph 12.
- 12. Archives, If the Client requests for a sample to be archived, ALS will invoice in advance and will store the sample for the period requested, after which ALS may discard the sample.
- 13. Legal Sample Handling Protocol. Legal sample handling protocol must be arranged before samples are collected. ALS charges a surcharge on the list price plus the hourly technologist or chemist rates for legal sample protocol. Additional charges will apply for samples that require storage by ALS.
- 14. Samples. The quality, condition, content, and source of samples stored and tested are not known to ALS except as declared and described on the chain of custody form completed, and submitted by the Client and accompanying the sample.
- 15. Risk of Loss. ALS will use reasonable care to protect samples during storage, however all samples are stored at the Client's risk and the Client is responsible for obtaining appropriate insurance, if desired. The Client acknowledges that during the performance of the Services samples may be altered, lost, damaged, or destroyed and the Client releases ALS from any claim the Client may have for any loss or damage to the sample.
- 16. Environmental. The Client must comply with all applicable environment legislation, including labeling all hazardous samples to comply with GHS and TDG regulations, and must provide appropriate Safety Data that include the nature of the hazard and a contact name and phone number to call for information. The Client will indemnify ALS for all loss or damages, including any fine or cost of complying with an order of any government authority, resulting from the Client's breach of this
- 17. Hazardous Materials Disposal. ALS may return, at the Client's cost, hazardous material to the Client for disposal.
- 18. Hazardous Materials Surcharge, ALS may apply an additional surcharge for handling of hazardous samples or samples with Naturally Occurring Radioactive Materials (NORM), H2S, cyanide, etc.
- 19. Sample Containers. ALS may ship sample containers to the Client's location by the most cost effective means using ALS preferred courier suppliers, within the specified project timeline.
- 20. Additional Charges, ALS may charge the Client (a) its cost for emergency bottle shipments and shipments to and from a remote site, and (b) where pickup and delivery services are provided, subject in each instance to a minimum charge of \$25,00.
- 21. Holding Times. Samples and chain of custody forms should be submitted to ALS as soon as possible after sampling, with a minimum of half the analytical hold time remaining, unless prior arrangements are made.
- 22. Re-Tests, ALS reserves the right to re-test any samples that remain in its possession. Re-tests requested by the Client may be subject to charges.
- 23. Waiver, The Client is responsible for making any assessment regarding the suitability of the Services and the intended results for the Client's purposes and waives any claims against ALS it may have as a result of the interpretation of the results. The Client shall indemnify ALS for all claims made by any third party against ALS in respect of all losses however arising from the performance of the Services or the use of any report provided in the performance of the Services.
- 24. Limitation of Liability. In no event shall ALS be liable for any consequential, indirect, incidental, special, exemplary, or punitive damages, whether foreseeable or unforeseeable (including claims for loss of profits or revenue or losses caused by stoppage of other work or impairment of other assets), incurred by the Client arising out of breach or failure of express or implied warranty, breach of contract, breach of warranty, misrepresentation, negligence, strict liability in tort or otherwise, In any event; the liability of ALS to the Client shall be limited to the cost of testing the sample as requested in the chain of custody form under which the sample was originally deposited. For the purposes of this paragraph and paragraphs 8, 15, 16, 23 and 25, as applicable, "ALS" includes without limitations its directors, officers, employees and affiliates and the "Client" includes without limitation any third party that may have a claim against ALS through the Client.
- 25. Notice of Liability. Notwithstanding paragraph 24. ALS shall not be liable to the Client unless the Client provides notice in writing to ALS of such loss or damage, together with full particulars thereof, within 30 days of the Client's receipt of the
- report of the analysis of the sample giving rise to such liability. The provisions of this paragraph allocate the risk under the Agreement between the Client and ALS, and the fees to be paid by the Client to ALS reflect this allocation of risks and the limitations of liability in this Agreement.
- 26. Third Party Service Provider Indemnity. For testing not performed at ALS, and where the Client requires ALS to forward samples to a third party service provider, the Client indemnifies ALS against any breach of this Agreement, all liabilities or losses incurred in connection with the third party service provider, including but not limited to courier services, testing turn-around time, and any additional costs associated with such third party.
- 27. Third Party Service Provider Indemnity. If ALS is required to engage a third party service provider for whatever reason, the Client indemnifies ALS against any breach of this Agreement, Ilabilities, or losses incurred in connection with the third party service provider, including but not limited to courier services, testing turn-around time, and any additional costs associated with such third party.
- 28. Entire Agreement. The Agreement is the entire agreement between the parties and supersedes and takes precedence over any terms and conditions contained in any documentation provided by the Client. ALS's execution of any subsequent documentation from the Client only acknowledges receipt and not acceptance of any terms or conditions therein. If there is a conflict between these terms and conditions and any other Agreement document, these terms and conditions prevail. 29. Term. Providing the first batch of samples to which this tender refers is submitted within three months of the starting date of this quotation, the following prices, terms and conditions will remain firm until the closing date. This offer, and its
- terms and conditions will automatically lapse if the offer has not been accepted and samples not delivered to ALS by the Gosing Date.
- 30. Termination, (a) Either party may terminate this Agreement for any reason by giving the other party thirty (30) days written notice (Notice Period). (b) If the Agreement is terminated pursuant to clause (a), then the Client must pay ALS for all Services performed up to the expiry of the Notice Period.



CERTIFICATE OF ANALYSIS

Work Order : HA2503196

Client : WSP Canada Inc. Laboratory : ALS Environmental - Halifax Contact : Naomi Giles Account Manager : Amanda Overholster

Address : 1 Spectacle Lake Drive Address : 13-100 Wright Ave

Dartmouth Nova Scotia Canada B3B 1X7

Dartmouth NS Canada B3B 1L2

E-mail

Dartmouth NS Canada B3B 1L2

Amanda.Overholster@ALSGlobal.com

 Telephone
 : -- E-mail
 : Amanda.Overholste

 Project
 : CA0052759.2572
 Telephone
 : 1 416 817 2944

 PO
 : P115454CA1
 Date Samples Received
 : 19-Aug-2025 14:50

 C-O-C number
 : 20-1022525
 Date Analysis Commenced
 : 08-Sep-2025

Quote number HRM-2025-0160 Water Quality Monitoring (X)

No. of samples received : 8
No. of samples analysed : 8

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Jon Fisher Inorganics, Waterloo, Ontario

Page: 1 of 3 alsglobal.com

Work Order : HA2503196 Client : WSP Canada Inc. Project : CA0052759.2572



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

 mg/L
 milligrams per litre

<: less than.

>: greater than.

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

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

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

Work Order : HA2503196
Client : WSP Canada Inc.
Project : CA0052759.2572



Analytical Results

Sub-Matrix: Surface Water (Matrix: Water)		Client sample ID				LSD (H) 	 	
			Client sampling	date / time	19-Aug-2025 09:35	19-Aug-2025 12:05	 	
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503196-001	HA2503196-005	 	
					Result	Result	 	
Anions and Nutrients								
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L	0.0200	0.0492	 	

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

Page: 3 of 3 alsglobal.com



QUALITY CONTROL INTERPRETIVE REPORT

Work Order : HA2503196 Page : 1 of 5

Client : WSP Canada Inc. Laboratory : ALS Environmental - Halifax

Contact : Naomi Giles : Amanda Overholster

Address :1 Spectacle Lake Drive Address :13-100 Wright Ave

Dartmouth NS Canada B3B 1X7 Dartmouth, Nova Scotia Canada B3B 1L2

 Telephone
 :--- Telephone
 : 1 416 817 2944

 Project
 : CA0052759.2572
 Date Samples Received
 : 19-Aug-2025 14:50

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No of samples received :8
No. of samples analysed :2

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

Key

Site

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

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

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

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

Summary of Outliers

Outliers : Quality Control Samples

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

Outliers: Reference Material (RM) Samples

• No Reference Material (RM) Sample outliers occur.

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

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

 Page
 3 of 5

 Work Order
 HA2503196

 Client
 WSP Canada Inc.

 Project
 CA0052759.2572



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

Evaluation: • – notaling time exceedance, • – within holding time											
Analyte Group : Analytical Method	Method	Sampling Date	Ext	Extraction / Preparation			Analysis				
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	Times	Eval	
			Date	Rec	Actual			Rec	Actual		
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)											
Amber glass total (sulfuric acid)											
HWY - 102 - 1 (H)	E372-U	19-Aug-2025	06-Sep-2025	28	18	✓	08-Sep-2025	28 days	18 days	✓	
				days	days						
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)											
Amber glass total (sulfuric acid)											
LSD (H)	E372-U	19-Aug-2025	06-Sep-2025	28	18	✓	08-Sep-2025	28 days	18 days	✓	
				days	days						

Legend & Qualifier Definitions

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

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 4 of 5

 Work Order
 HA2503196

 Client
 WSP Canada Inc.

 Project
 :
 CA0052759.2572



Quality Control Parameter Frequency Compliance

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

Matrix: Water	Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification								
Quality Control Sample Type		Co	unt)				
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation		
Laboratory Duplicates (DUP)									
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201895	1	20	5.0	5.0	✓		
Laboratory Control Samples (LCS)									
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201895	1	20	5.0	5.0	✓		
Method Blanks (MB)									
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201895	1	20	5.0	5.0	✓		
Matrix Spikes (MS)									
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201895	1	20	5.0	5.0	✓		

 Page
 5 of 5

 Work Order
 HA2503196

 Client
 WSP Canada Inc.

 Project
 ;
 CA0052759.2572



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
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
	ALS Environmental -			
	Waterloo			
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for Total Phosphorus in water	EP372	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
	ALS Environmental -			
	Waterloo			

ALS Canada Ltd.



QUALITY CONTROL REPORT

Work Order :HA2503196

WSP Canada Inc. Client Naomi Giles Contact

Address : 1 Spectacle Lake Drive

Dartmouth NS Canada B3B 1X7

Telephone

Project CA0052759.2572 P115454CA1 PO C-O-C number 20-1022525

Sampler :MO / JH

Site

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No. of samples received 8 No. of samples analysed : 2 Page : 1 of 3

: ALS Environmental - Halifax Laboratory

Account Manager : Amanda Overholster Address

: 13-100 Wright Ave

Dartmouth, Nova Scotia Canada B3B 1L2 Telephone :1 416 817 2944

Date Samples Received : 19-Aug-2025 14:50

Date Analysis Commenced :06-Sep-2025

Issue Date :08-Sep-2025 17:48

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

Jon Fisher Laboratory Manager - Environmental Waterloo Inorganics, Waterloo, Ontario
 Page
 2 of 3

 Work Order
 HA2503196

 Client
 WSP Canada Inc.

 Project
 CA0052759.2572



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		
Anions and Nutrient	Anions and Nutrients (QC Lot: 2201895)												
HA2503196-001	HWY - 102 - 1 (H)	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0200	0.0165	0.0035	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
Anions and Nutrients (QCLot: 2201	895)				
Phosphorus, total	7723-14-0 E372-U	0.002	mg/L	<0.0020	_

 Page
 3 of 3

 Work Order
 HA2503196

 Client
 WSP Canada Inc.

 Project
 CA0052759.2572



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				
Analyte	CAS Number Method	l LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 2201895)								
Phosphorus, total	7723-14-0 E372-U	0.002	mg/L	0.333 mg/L	101	80.0	120	_

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.

Su	ıb-Matrix: Water			Matrix Spike (MS) Report								
			Spi	ke	Recovery (%)	Recovery Limits (%)						
La	aboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier	
A	Anions and Nutrients (QCLot: 2201895)											
Н	A2503196-001	HWY - 102 - 1 (H)	Phosphorus, total	7723-14-0	E372-U	0.0947 mg/L	0.1 mg/L	94.7	70.0	130		

Chain of Custody (COC) / Analytical Request Form

(ALS)	

coc Number: 20 - 1022525

ALS	www.alsglobal.com		Canada Toll	Free: 1 800 668	9878								F	'age	of					
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GENERAL TERMS AND CONDITIONS:

These terms and conditions are incorporated in and form part of the Agreement between ALS Group's Environmental Division and the party named in the Offer (the "Client").

- 1. Definitions. Capitalized Terms not defined in these Terms and Conditions have the definitions set out in the other Agreement documents.
- 2. The Services. ALS will provide the Services to the Client as described in the Offer and in any chain of custody form provided with any sample. Unless otherwise agreed, ALS may elect to re-allocate testing, without prior notice, to other ALS Canada laboratories with equivalent services and applicable accreditations and licenses, if required to prevent hold time or due date exceedance due to unanticipated over-capacity situations.
- 3. Prices. ALS may review and change all prices, fees, surcharges or other charges set out in the Agreement if there are changes to ALS's cost beyond ALS's control, including changes in legislative requirements, Client variations of sample numbers and Client requests for changes to standard reporting requirements. Notwithstanding Condition 3, all quotations expire after three years.
- 4. Payment Terms. The Client shall pay ALS within 30 days of the invoice date OAC. ALS may, for reasonable business reasons, require the Client to arrange for payment in advance.
- 5. Quotation Numbers. The Client shall provide the quotation number to ALS (where applicable) to ensure correct pricing.
- 6. Taxes. Applicable taxes are not included in prices. Applicable surcharges and additional fees will be added at the time of invoicing.
- 7. Quality Control. ALS has an extensive QA/QC program. Clients' samples are analyzed using approved, referenced procedures followed by thorough data validation prior to reporting of the analytical results.
- 8. Test Results. Results are obtained from analytical measurements that are subject to inherent variability. Measurement results reflect characteristics of submitted test samples at time of analysis. The Client is responsible for informing itself on the limitation of test results and acknowledges that test results are not guaranteed. When statements of conformity are requested on test reports (e.g. within Criteria Reports), measurement uncertainty is not applied to test results prior to the explication
- 9. Standard of Care. ALS will use reasonable care and diligence as required by the laws of the province or territory where the sample is tested.
- 10. Storage. Where possible, ALS will store; soil and water samples for 45 days from date of receipt, tissue/biota samples for 6 months from date of receipt, air samples or re-usable media for 14 days from date of receipt, and microbiological samples for 3 days from date of receipt.
- 11. Holds. If the Client requests a sample to be placed on hold, ALS will store the samples according to paragraph 10, after which ALS will invoice the Client and discard the sample. Each sample is subject to a minimum \$5.00 hold fee. Longer hold periods are available upon request. See paragraph 12.
- 12. Archives. If the Client requests for a sample to be archived, ALS will invoice in advance and will store the sample for the period requested, after which ALS may discard the sample.
- 13. Legal Sample Handling Protocol. Legal sample handling protocol must be arranged before samples are collected. ALS charges a surcharge on the list price plus the hourly technologist or chemist rates for legal sample protocol. Additional charges will apply for samples that require storage by ALS.
- 14. Samples. The quality, condition, content, and source of samples stored and tested are not known to ALS except as declared and described on the chain of custody form completed and submitted by the Client and accompanying the sample.
- 15. Risk of Loss. ALS will use reasonable care to protect samples during storage, howeverall samples are stored at the Client's risk and the Client is responsible for obtaining appropriate insurance, if desired. The Client acknowledges that during the performance of the Services samples may be altered, lost, damaged, or destroyed and the Client releases ALS from any claim the Client may have for any loss or damage to the sample.
- 16. Environmental. The Client must comply with all applicable environment legislation, including labeling all hazardous samples to comply with GHS and TDG regulations, and must provide appropriate Safety Data that include the nature of the hazard and a contact name and phone number to call for information. The Client will indemnify ALS for all loss or damages, including any fine or cost of complying with an order of any government authority, resulting from the Client's breach of this paragraph.
- 17. Hazardous Materials Disposal. ALS may return, at the Client's cost, hazardous material to the Client for disposal.
- 18. Hazardous Materials Surcharge. ALS may apply an additional surcharge for handling of hazardous samples or samples with Naturally Occurring Radioactive Materials (NORM), H2S, cyanide, etc.
- 19. Sample Containers. ALS may ship sample containers to the Client's location by the most cost effective means using ALS preferred courier suppliers, within the specified project timeline.
- 20. Additional Charges. ALS may charge the Client (a) its cost for emergency bottle shipments and shipments to and from a remote site, and (b) where pickup and delivery services are provided, subject in each instance to a minimum charge of \$25.00.
- 21. Holding Times. Samples and chain of custody forms should be submitted to ALS as soon as possible after sampling, with a minimum of half the analytical hold time remaining, unless prior arrangements are made.
- 22. Re-Tests. ALS reserves the right to re-test any samples that remain in its possession. Re-tests requested by the Client may be subject to charges.
- 23. Waiver. The Client is responsible for making any assessment regarding the suitability of the Services and the intended results for the Client's purposes and waives any claims against ALS it may have as a result of the interpretation of the results. The Client shall indemnify ALS for all claims made by any third party against ALS in respect of all losses however arising from the performance of the Services or the use of any report provided in the performance of the Services.
- 24. Limitation of Liability. In no event shall ALS be liable for any consequential, indirect, incidental, special, exemplary, or punitive damages, whether foreseeable or unforeseeable (including claims for loss of profits or revenue or losses caused by stoppage of other work or impairment of other assets), incurred by the Client arising out of breach or failure of express or implied warranty, breach of contract, breach of warranty, misrepresentation, negligence, strict liability in tort or otherwise. In any event, the liability of ALS to the Client shall be limited to the cost of testing the sample as requested in the chain of custody form under which the sample was originally deposited. For the purposes of this paragraph and
- paragraphs 8, 15, 16, 23 and 25, as applicable, "ALS" includes without limitations its directors, officers, employees and affiliates and the "Client" includes without limitation any third party that may have a claim against ALS through the Client.
- 25. Notice of Liability. Notwithstanding paragraph 24, ALS shall not be liable to the Client unless the Client provides notice in writing to ALS of such loss or damage, together with full particulars thereof, within 30 days of the Client's receipt of the report of the analysis of the sample giving rise to such liability. The provisions of this paragraph allocate the risk under the Agreement between the Client and ALS, and the fees to be paid by the Client to ALS reflect this allocation of risks and the limitations of liability in this Agreement.
- 26. Third Party Service Provider Indemnity. For testing not performed at ALS, and where the Client requires ALS to forward samples to a third party service provider, the Client indemnifies ALS against any breach of this Agreement, all liabilities or losses incurred in connection with the third party service provider, including but not limited to courier services, testing turn-around time, and any additional costs associated with such third party.
- 27. Third Party Service Provider Indemnity. If ALS is required to engage a third party service provider for whatever reason, the Client indemnifies ALS against any breach of this Agreement, liabilities, or losses incurred in connection with the third party service provider, including but not limited to courier services, testing turn-around time, and any additional costs associated with such third party.
- 28. Entire Agreement. The Agreement is the entire agreement between the parties and supersedes and takes precedence over any terms and conditions contained in any documentation provided by the Client. ALS's execution of any subsequent documentation from the Client only acknowledges receipt and not acceptance of any terms or conditions therein. If there is a conflict between these terms and conditions and any other Agreement document, these terms and conditions prevail.

 29. Term. Providing the first batch of samples to which this tender refers is submitted within three months of the starting date of this quotation, the following prices, terms and conditions will remain firm until the dosing date. This offer, and its
- terms and conditions will automatically lapse if the offer has not been accepted and samples not delivered to ALS by the Closing Date.
- 30. Termination. (a) Either party may terminate this Agreement for any reason by giving the other party thirty (30) days written notice (Notice Period). (b) If the Agreement is terminated pursuant to dause (a), then the Client must pay ALS for all Services performed up to the expiry of the Notice Period.



CERTIFICATE OF ANALYSIS

HA2503220 **Work Order**

Client WSP Canada Inc. : ALS Environmental - Halifax Laboratory Contact Naomi Giles : Amanda Overholster

Account Manager Address : 1 Spectacle Lake Drive : 13-100 Wright Ave Address

Dartmouth Nova Scotia Canada B3B 1X7

Dartmouth NS Canada B3B 1L2 : Amanda.Overholster@ALSGlobal.com Telephone E-mail

Project CA0050657.1254 Telephone : 1 416 817 2944 PO P115454CA001 20-Aug-2025 13:30 **Date Samples Received** C-O-C number Date Analysis Commenced 08-Sep-2025

: Client Sampler Issue Date 08-Sep-2025 17:49 Site

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No. of samples received : 5 No. of samples analysed 5

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

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

Jon Fisher Inorganics, Waterloo, Ontario

alsglobal.com Page: 1 of 3

Work Order : HA2503220 Client : WSP Canada Inc. Project : CA0050657.1254



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

 mg/L
 milligrams per litre

<: less than.

>: greater than.

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

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

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

Work Order : HA2503220
Client : WSP Canada Inc.
Project : CA0050657.1254



Analytical Results

Sub-Matrix: Water (Matrix: Water)			Client	sample ID	PML - 1 (H) 	 	
Client sampling date / time					20-Aug-2025 12:00	 	
Analyte	CAS Number	Method/Lab	LOR	Unit	HA2503220-005	 	
					Result	 	
Anions and Nutrients							
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L	0.0225	 	

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

Page: 3 of 3 alsglobal.com



QUALITY CONTROL INTERPRETIVE REPORT

:HA2503220 **Work Order** Page : 1 of 5

Client : WSP Canada Inc. Laboratory : ALS Environmental - Halifax

: Amanda Overholster Contact : Naomi Giles **Account Manager** Address

Address : 1 Spectacle Lake Drive : 13-100 Wright Ave

Dartmouth NS Canada B3B 1X7 Dartmouth, Nova Scotia Canada B3B 1L2 Telephone

Telephone : 1 416 817 2944 Project : CA0050657.1254 **Date Samples Received** : 20-Aug-2025 13:30

PO : P115454CA001 Issue Date : 08-Sep-2025 17:48 C O C number Sampler : Client

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No of samples received :5 No. of samples analysed :1

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

Key

Site

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

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

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

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

Summary of Outliers Outliers: Quality Control Samples

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

Outliers: Reference Material (RM) Samples

• No Reference Material (RM) Sample outliers occur.

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

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

 Page
 3 of 5

 Work Order
 HA2503220

 Client
 WSP Canada Inc.

 Project
 :
 CA0050657.1254



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

Evaluation. * Trotaing and exceedance, * Within Trotaing Time										
Analyte Group : Analytical Method	Method	Sampling Date	Ext		Analysis					
Container / Client Sample ID(s)			Preparation	Holding	Holding Times Eval		Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
PML - 1 (H)	E372-U	20-Aug-2025	06-Sep-2025	28	17	✓	08-Sep-2025	28 days	17 days	✓
				days	days					

Legend & Qualifier Definitions

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

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 4 of 5

 Work Order
 HA2503220

 Client
 WSP Canada Inc.

 Project
 :
 CA0050657.1254



Quality Control Parameter Frequency Compliance

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

Matrix: Water	Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.											
Quality Control Sample Type		Co	unt	Frequency (%)								
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation					
Laboratory Duplicates (DUP)												
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201895	1	20	5.0	5.0	✓					
Laboratory Control Samples (LCS)												
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201895	1	20	5.0	5.0	✓					
Method Blanks (MB)												
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201895	1	20	5.0	5.0	✓					
Matrix Spikes (MS)												
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	2201895	1	20	5.0	5.0	✓					

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 5 of 5

 Work Order
 HA2503220

 Client
 WSP Canada Inc.

 Project
 ;
 CA0050657.1254



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
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.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for Total Phosphorus in water	EP372	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
	ALS Environmental -			
	Waterloo			

ALS Canada Ltd.



QUALITY CONTROL REPORT

Work Order : HA2503220

Client : WSP Canada Inc.
Contact : Naomi Giles

Address : 1 Spectacle Lake Drive

Dartmouth NS Canada B3B 1X7

Telephone :--

Project : CA0050657.1254 PO : P115454CA001

C-O-C number :---Sampler : Client
Site :----

Quote number : HRM-2025-0160 Water Quality Monitoring (X)

No. of samples received : 5
No. of samples analysed : 1

Page : 1 of 3

Laboratory ; ALS Environmental - Halifax

Account Manager : Amanda Overholster
Address : 13_100 Wright Ave

:13-100 Wright Ave

Dartmouth, Nova Scotia Canada B3B 1L2
Telephone :1 416 817 2944

Date Samples Received : 20-Aug-2025 13:30

Date Analysis Commenced : 06-Sep-2025

Issue Date : 08-Sep-2025 17:48

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

Jon Fisher Laboratory Manager - Environmental Waterloo Inorganics, Waterloo, Ontario

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 2 of 3

 Work Order
 HA2503220

 Client
 WSP Canada Inc.

 Project
 CA0050657.1254



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		
Anions and Nutrient	Anions and Nutrients (QC Lot: 2201895)												
HA2503196-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0200	0.0165	0.0035	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
Anions and Nutrients (QCLot: 2201895)					
Phosphorus, total	7723-14-0 E372-U	0.002	mg/L	<0.0020	_

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 3 of 3

 Work Order
 HA2503220

 Client
 WSP Canada Inc.

 Project
 CA0050657.1254



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						
Analyte	CAS Number Method	I LOR	Unit	Target Concentration	LCS	Low	High	Qualifier	
Anions and Nutrients (QCLot: 2201895)									
Phosphorus, total	7723-14-0 E372-U	0.002	mg/L	0.333 mg/L	101	80.0	120	_	

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								
					Spi	ke	Recovery (%) Recovery Lin		Limits (%)					
1	Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration Target		MS	Low	High	Qualifier			
Anions and Nutrients (QCLot: 2201895)														
Г	HA2503196-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0947 mg/L	0.1 mg/L	94.7	70.0	130				

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 22 -

Environmental Division

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or human consumption/ use? Hold one (1) Total Ph	osphorous bottle pe	ending client instru	ction.		2014	INIITIAL C	OOLER TEMP	ERATURES 9	С					
YES NO					21	16								
		NITIAL SHIPMENT		LS use only)	1-			FINAL S			N (ALS use	only)		
0 /	ก		Date:	+1025	Time:	Recei	ved by:		Date	:		T	ime:	
	Naomi Giles 782-640-1923 Company address below will appear on the final report 1 Spectable Lake Dr. Dartmouth, Nova Scotia B3B 1X7 Same as Report To	WSP Canada Inc. Naomi Giles 782-640-1923 Company address below will appear on the final report 1 Spectable Lake Dr. Email 1 or Fax Bas 1X7 Same as Report To Copy of Invoice with Report Project Information de / QUOTE #: CA0050657-1254 P115454CA001 KDOTE # (ALS use only): - [A 2 5 3 2 2 0 Sample Identification and/or Coordinates (This description will appear on the report) KL=1(H) KL=2(H) KL=4(H) KL=4(H) KL=4(H) KL=4(H) KL=4(H) Requisition or the report in the report	WSP Canada Inc. Naomi Gies Naomi Gies Merge QCICCI Reports with CD/ Zompany address below will appear on the final report Spectable Lake Dr. Dartmouth, Nova Scotia Email 2 lee.hynes@wsp.c B3B 1X7 Email 3 Invoice R Copy of Invoice with Report WSP Canada Inc. Naomi Giles Project Information Golf QUOTE #: WSPI100 / HA2025WSPI100004 **K Order # (ALS use only):	WSP Canada Inc. Naomi Giles Merge QCICIC Reports with COA ☑ YES ☐ Normary address below will appear on the final report Select Distribution: ☑ PAL ☐ MAIL ☐ MAIL ☐ Select Distribution: ☑ PAL ☐ MAIL ☐ MAIL ☐ MAIL ☐ Select Distribution: ☑ PAL ☐ MAIL ☐ MAIL ☐ MAIL ☐ Select Distribution: ☑ PAL ☐ MAIL ☐	Select Report Format: P PF Z EXCE DD (DIGITAL) Naomi Glies	Select Report Format: POF EXCEL EDD (TXISTIAL) FAX POT POT POT EXCEL EDD (TXISTIAL) POT PO	WSP Carada Inc. Select Report Format. Por Exce. E00 (DIGSTAL) Table of the Project Glies Port Post Post	WSP Canada Inc. Select Report Format. POP PACE EDI (NORTHAL) PROVENCE by Jan Proceedings of the final report Select Distribution: PACE P	Select Report Format: Por Port Port	Select Report Format	WSP Canada Inc	White Contact and company name below will appear on the final report Report # Recipients Debt Solicit So	Work processed company name below with appear on the final report. Reports / Recipients Subsect Sub	Well Control and C

¹ If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.