## **ALS Canada Ltd.**

Contact



# **CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)**

: VA23A0750 **Work Order** Page : 1 of 3

Client Laboratory : Vancouver - Environmental : Vancouver School Board

: Stephen Thomas **Account Manager** : Tasnia Tarannum Address Address

: 1549 Clark Drive : 8081 Lougheed Highway Vancouver BC Canada V5L 3L4

Burnaby, British Columbia Canada V5A 1W9

Telephone : ----Telephone : +1 604 253 4188 Project : Queen Elizabeth Elementary **Date Samples Received** : 12-Jan-2023 15:05

**Date Analysis Commenced** : 13-Jan-2023 PO : 16-Jan-2023 16:34

C-O-C number : 20-1041687 Issue Date Sampler ٠ \_\_\_\_

Site : ----

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:

: Standing Offer

- General Comments
- Analytical Results
- Guideline Comparison

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

### **Signatories**

Quote number

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

Robin Weeks Team Leader - Metals Metals, Burnaby, British Columbia Page : 2 of 3 Work Order : VA23A0750

Client : Vancouver School Board
Project : Queen Elizabeth Elementary



#### No Breaches Found

### **General Comments**

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

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

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

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

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

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

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

Unit	Description
mg/L	milligrams per litre

<sup>&</sup>gt;: greater than.

Red shading is applied where the result is greater than the Guideline Upper Limit or the result is lower than the Guideline Lower Limit.

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

<sup>&</sup>lt;: less than.

Page : 3 of 3 Work Order : VA23A0750

Client : Vancouver School Board
Project : Queen Elizabeth Elementary



# Analytical Results Evaluation

Matrix:	Client	t sample ID		 	 	 
	Samplin	g date/time		 	 	 
		Sub-Matrix			 	 
Analyte	CAS Number	Unit		 	 	 
		-				
Please refer to the General Comments section	for an explanation of any qu	ualifiers dete	cted.			
lead, total	74	139-92-1	mg/L			



# **QUALITY CONTROL INTERPRETIVE REPORT**

**Work Order** : **VA23A0750** Page : 1 of 5

Client : Vancouver School Board Laboratory : Vancouver - Environmental

Contact : Stephen Thomas Account Manager : Tasnia Tarannum

Address :1549 Clark Drive Address :8081 Lougheed Highway

Vancouver BC Canada V5L 3L4

Burnaby, British Columbia Canada V5A 1W9

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

Project : Queen Elizabeth Elementary Date Samples Received :12-Jan-2023 15:05

PO : ---- Issue Date : 16-Jan-2023 16:34

C-O-C number : 20-1041687

Sampler

Site :---

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.

#### Key

Quote number

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

: Standing Offer

- 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 : VA23A0750

Client : Vancouver School Board
Project : Queen Elizabeth Elementary



# **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

watiri. water						a.aaa.o	I lolding time excee			· roraning · m
Analyte Group	Method	Sampling Date	Ext	raction / 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	
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Corr 119 Rm 121 DF	E420	12-Jan-2023	13-Jan-2023				16-Jan-2023	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Corr 136 Rm 110 DF	E420	12-Jan-2023	13-Jan-2023				16-Jan-2023	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Corr 136 Rm 135A BF	E420	12-Jan-2023	13-Jan-2023				16-Jan-2023	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
Corr 140 Rm 140A DF	E420	12-Jan-2023	13-Jan-2023				16-Jan-2023	180 days	5 days	✓
Total Metals : Total metals in Water by CRC ICPMS				•						
HDPE - total (lab preserved)										
Portable 416 Bub	E420	12-Jan-2023	13-Jan-2023				16-Jan-2023	180 days	5 days	✓

#### **Legend & Qualifier Definitions**

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

Page : 4 of 5 Work Order : VA23A0750

Client : Vancouver School Board
Project : Queen Elizabeth Elementary



# **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 spec									
Quality Control Sample Type			Co	ount		Frequency (%)				
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation			
Laboratory Duplicates (DUP)										
Total metals in Water by CRC ICPMS	E420	801473	1	19	5.2	5.0	✓			
Laboratory Control Samples (LCS)										
Total metals in Water by CRC ICPMS	E420	801473	1	19	5.2	5.0	✓			
Method Blanks (MB)										
Total metals in Water by CRC ICPMS	E420	801473	1	19	5.2	5.0	✓			
Matrix Spikes (MS)										
Total metals in Water by CRC ICPMS	E420	801473	1	19	5.2	5.0	✓			

Page : 5 of 5 Work Order : VA23A0750

Client : Vancouver School Board
Project : Queen Elizabeth Elementary



# **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 metals in Water by CRC ICPMS	E420	Water	EPA 200.2/6020B	Water samples are digested with nitric and hydrochloric acids, and analyzed by
			(mod)	Collision/Reaction Cell ICPMS.
	Vancouver -			
	Environmental			Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered
				by this method.

# **ALS Canada Ltd.**



# **QUALITY CONTROL REPORT**

**Work Order** :VA23A0750

Client : Vancouver School Board

Address : 1549 Clark Drive

: Stephen Thomas

Vancouver BC Canada V5L 3L4

Telephone

Contact

**Project** : Queen Elizabeth Elementary

PO

C-O-C number :20-1041687 Sampler

Site

Quote number : Standing Offer

No. of samples received : 5 No. of samples analysed : 5 Page : 1 of 3

Laboratory : Vancouver - Environmental

**Account Manager** : Tasnia Tarannum

Address :8081 Lougheed Highway

Burnaby, British Columbia Canada V5A 1W9

Telephone :+1 604 253 4188

Date Samples Received : 12-Jan-2023 15:05

**Date Analysis Commenced** : 13-Jan-2023

Issue Date : 16-Jan-2023 16:34

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

Robin Weeks Team Leader - Metals Vancouver Metals, Burnaby, British Columbia Page : 2 of 3 Work Order : VA23A0750

Client : Vancouver School Board
Project : Queen Elizabeth Elementary



#### 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							Labora	tory Duplicate (D	JP) 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 Lo	t: 801473)										
VA23A0712-001	Anonymous	lead, total	7439-92-1	E420	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	

### Method Blank (MB) Report

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

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 801473)						
lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	

Page : 3 of 3 Work Order : VA23A0750

Client : Vancouver School Board
Project : Queen Elizabeth Elementary



### Laboratory Control Sample (LCS) Report

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

Sub-Matrix: Water					Laboratory Control Sample (LCS) Report					
					Spike	Recovery (%)	Recovery	Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier	
Total Metals (QCLot: 801473)										
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	100	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.

	1 \	1 / /	,	, 3						
Sub-Matrix: Water							Matrix Spil	ke (MS) Report		
					Spi	ike	Recovery (%)	Recovery	Limits (%)	
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QC	Lot: 801473)									
VA23A0712-002	Anonymous	lead, total	7439-92-1	E420	0.0376 mg/L	0.04 mg/L	94.1	70.0	130	



# Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20 - 1041687

Page

of

www.aisglobal.com

Contact: STEPHEN THOMS  Phone: 604-713-563+  Company address below will appear on the final report  Street: 1549 Clark drive E  City/Province: Vancouver BC  Postal Code: E  Invoice To Same as Report To BY YES NO  Copy of Invoice with Report YES NO  Company: E  Contact: Project Information  ALS Account #/ Quote #  Job #: Queb Elizabeth elementary  PO / AFE: LSD:	Email 1 or Fax  Email 2  Email 3  Select Invoice Distribution  Email 1 or Fax  Email 2	s with COA ria on Report - pr BHAIL  5 Thom a  (1 E) 6  Invoice Re  n: BM  Bas Required	rovide details below I  MAIL  MAIL	O NA f box checked  FAX   FAX	4   3   2   1     Sa   m	day [P4] if n day [P3] if day [P2] if day [E] if re ame day [E2] aay apply to n		m M-F- m M-F- m M-F- M-F- 10am M-S weekends for all E&	20% rush 25% rush 50% rush 100% rush S - 200% r s, statutory &P TATs: h rush TAT	surcharge surcharge surcharge surcharge sush surcha holidays at a requested	minimum : minimum : minimum : minimum :rge. Additior	nal fees ine tests dd ntect your	I-mmn-y	y hh:mm			SUSPECTED HAZARD (see notes)
Phone: 694 - 713 - 5637  Company address below will appear on the final report  Street: 1549 Clark Arive.  City/Province: Vancouve BC  Postal Code: Invoice To Same as Report To Syres No  Copy of Invoice with Report YES NO  Company: Contact: Project Information  ALS Account #/ Quote #  Job #: Rull Elizah eth elementary NO  PO / AFE: LSD:  ALS Lab Work Order # (ALS use only):	Compare Results to Criter Select Distribution:  Email 1 or Fax  Email 2  Compare Results to Criter  Select Distribution:  Select Invoice Distribution  Email 1 or Fax  Email 2  Oil and G  AFE/Cost Center:  Major/Minor Code:  Requisitioner:  Location:	ria on Report - pr  B BMAIL  S Thom >  (1 E)   69  Invoice Re  n:	rovide details below in the control of the control	f box checked  FAX  SC.CO.  ( a.	3 2 2 5a m	day [P3] if iday [P2] if iday [E] if reameday [E2] hay apply to reameday [E2]	received by 3pr received by 3pr sceived by 3pr if received by sh requests on ime Regulred for all	m M-F- m M-F- 10am M-S weekends for all E&	25% rush 50% rush 100% rush S - 200% r s, statutory &P TATs: h rush TATe	surcharge surcharge surcharge ush surcha holidays at requested	e minimum e minimum minimum irge. Addition nd non-routi d, please con ysis Requ	nal fees ine tests dd ntect your	I-mmn-y	y hh:mm	use only am/pn:		
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Drinking Water (DW) Samples <sup>1</sup> (client use) Notes / Specify	y Limits for result evaluatio		g from drop-down	below													
Are samples taken from a Regulated DW System?	(=200) 00	,			_		mments ide								OLING INI		200.
Fa yes □ NO	•		111				Seals Intac						Mar-1,000-01 10				N/A
Are samples for human consumption/ use?	preservation	185	added		7335	JON THE	AL COOLER T	TEMPER/	ATURES °						ERATURES		
☑ YES □ NO	1				3 g		*					/ w		1		8 1	<b>*</b>
SHIPMENT RELEASE (client use)	S. W. WITIA	L SHIPMENT	RECEPTION (A	ALS use only) 😹	*	# J 74				SHIPM	ENT REC	CEPTIO	N (ALS	ise only)	a a	<b>188</b> 188	.a)
Released by: Date: Time:	Received by:		Date:		Time		ceived by:		>****	% C	Date: 5	Øn:	12.	22	a Tin	<u>"</u> "	SP.
REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION	THE STATE OF THE STATE OF	201	TE - LABORATOR			ENT COPY	· 1000年 (1000年)	11.1	1888	1990	raniser (* 1566	a. : 17974a	ate Fage.		2000 100 100 100 100 100 100 100 100 100	AUG	2020 FRON

# **Results Summary VA23A0750**

**Project** Queen Elizabeth Elementary

Report To Stephen Thomas, Vancouver School Board

 Date Received
 12-Jan-2023 15:05

 Issue Date
 16-Jan-2023 16:34

Amendment

Client Sample ID			Corr 136 Rm 110 DF	Corr 140 Rm 140A DF	Corr 136 Rm 135A BF	Corr 119 Rm 121 DF	Portable 416 Bub
Date Sampled			12-Jan-2023	12-Jan-2023	12-Jan-2023	12-Jan-2023	12-Jan-2023
Time Sampled			07:05	07:10	07:14	07:20	07:22
ALS Sample ID			VA23A0750-001	VA23A0750-002	VA23A0750-003	VA23A0750-004	VA23A0750-005
Analyte	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water
Total Metals (Matrix: Water)							
lead, total	0.000050	mg/L	0.000346	0.00109	<0.000050	0.00183	0.000093