



## CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

**Work Order** : **VA22A4603**  
**Client** : **Vancouver School Board**  
**Contact** : Stephen Thomas  
**Address** : 1549 Clark Drive  
Vancouver BC Canada V5L 3L4  
**Telephone** : ----  
**Project** : Magee  
**PO** : ----  
**C-O-C number** : 20-986710/20-985902  
**Sampler** : ----  
**Site** : ----  
**Quote number** : ----  
**No. of samples received** : 13  
**No. of samples analysed** : 13

**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** : 04-Mar-2022 15:00  
**Date Analysis Commenced** : 14-Mar-2022  
**Issue Date** : 21-Mar-2022 15:57

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

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

### Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia



### 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

>: greater than.

<: less 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.

### Analytical Results Evaluation

Matrix:	Client sample ID	----	----	----	----	----	----	----
	Sampling date/time	----	----	----	----	----	----	----
	Sub-Matrix	----	----	----	----	----	----	----
Analyte	CAS Number	Unit	----	----	----	----	----	----
		-						

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



**No Breaches Found**

lead, total	7439-92-1	mg/L								
-------------	-----------	------	--	--	--	--	--	--	--	--

## QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: <b>VA22A4603</b>	Page	: 1 of 6
Client	: <b>Vancouver School Board</b>	Laboratory	: Vancouver - Environmental
Contact	: Stephen Thomas	Account Manager	: Tasnia Tarannum
Address	: 1549 Clark Drive Vancouver BC Canada V5L 3L4	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: Magee	Date Samples Received	: 04-Mar-2022 15:00
PO	: ----	Issue Date	: 21-Mar-2022 15:57
C-O-C number	: 20-986710/20-985902		
Sampler	: ----		
Site	: ----		
Quote number	: ----		
No. of samples received	: 13		
No. of samples analysed	: 13		

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

### Key

**Anonymous:** Refers to samples which are not part of this work order, but which formed part of the QC process lot.  
**CAS Number:** Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
**DQO:** Data Quality Objective.  
**LOR:** Limit of Reporting (detection limit).  
**RPD:** Relative Percent Difference.

### **Workorder Comments**

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

### **Summary of Outliers**

#### **Outliers : Quality Control Samples**

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

#### **Outliers: Reference Material (RM) Samples**

- No Reference Material (RM) Sample outliers occur.

#### **Outliers : Analysis Holding Time Compliance (Breaches)**

- No Analysis Holding Time Outliers exist.

## ***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



## Analysis Holding Time Compliance

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

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

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

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

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

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> Bottle Filler Rm. 135 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> Bottle Filler Rm. 227 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> Bottle Filler Rm. 308 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> Bubbler Rm. 107 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> Bubbler Rm. 108 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> Bubbler Rm. 122 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> S.S D.F Cor 109 Rm. 107 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓



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

Analyte Group Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> S.S D.F Corr. 121 Rm. 121A Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> S.S D.F Rm. 116 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> S.S D.F RM. 141A Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> S.S D.F Rm. 209 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> S.S D.F Rm. 328 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	10 days	✓
<b>Total Metals : Total Metals in Water by CRC ICPMS</b>										
<b>HDPE - total (lab preserved)</b> S.S D.F Rm. 120 Magee	E420	04-Mar-2022	----	----	----		14-Mar-2022	180 days	11 days	✓

**Legend & Qualifier Definitions**

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



## Quality Control Parameter Frequency Compliance

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

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

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		Evaluation
			QC	Regular	Actual	Expected	
<b>Analytical Methods</b>							
<b>Laboratory Duplicates (DUP)</b>							
Total Metals in Water by CRC ICPMS	E420	431804	1	19	5.2	5.0	✔
<b>Laboratory Control Samples (LCS)</b>							
Total Metals in Water by CRC ICPMS	E420	431804	1	19	5.2	5.0	✔
<b>Method Blanks (MB)</b>							
Total Metals in Water by CRC ICPMS	E420	431804	1	19	5.2	5.0	✔
<b>Matrix Spikes (MS)</b>							
Total Metals in Water by CRC ICPMS	E420	431804	1	19	5.2	5.0	✔





## Methodology References and Summaries

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

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals in Water by CRC ICPMS	E420  Vancouver - Environmental	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.



## QUALITY CONTROL REPORT

Work Order : **VA22A4603**

Page : 1 of 3

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Date Analysis Commenced : 14-Mar-2022  
Issue Date : 21-Mar-2022 15:57

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 Percentage Difference (RPD) and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits
- Reference Material (RM) Report; Recovery and Acceptance Limits
- Method Blank (MB) Report; Recovery and Acceptance Limits
- Laboratory Control Sample (LCS) Report; Recovery and Acceptance Limits

### 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
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia



## 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 Services number is a unique identifier assigned to discrete substances.
- DQO = Data Quality Objective.
- LOR = Limit of Reporting (detection limit).
- RPD = Relative Percentage 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
<b>Total Metals (QC Lot: 431804)</b>											
VA22A4602-005	Anonymous	lead, total	7439-92-1	E420	0.000050	mg/L	0.00169	0.00171	0.893%	20%	----

## 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
<b>Total Metals (QC Lot: 431804)</b>						
lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----



### 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
<b>Total Metals (QCLot: 431804)</b>									
lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	107	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  $\geq 1x$  spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike	Recovery (%)	Recovery Limits (%)			
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
<b>Total Metals (QCLot: 431804)</b>										
VA22A4602-006	Anonymous	lead, total	7439-92-1	E420	0.0194 mg/L	0.02 mg/L	96.8	70.0	130	----



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 20-986710

Page of

Contact and company name below will appear on the final report

Reports / Recipients

Turnaround Time (TAT) Requested

Company: Vancouver School Board  
 Contact: Stephen Thomas  
 Phone: 604 713-5637  
 Company address below will appear on the final report  
 Street: 1549 Clark Drive  
 City/Province: Vancouver B.C.  
 Postal Code: V5L 3L4

Select Report Format:  PDF  EXCEL  EDD (DIGITAL)  
 Merge QC/QCI Reports with COA  YES  NO  N/A  
 Compare Results to Criteria on Report - provide details below if box checked  
 Select Distribution:  EMAIL  MAIL  FAX  
 Email 1 or Fax: ss.thomas@v.s.b.c.ca  
 Email 2: rlenay@v.s.b.c.ca  
 Email 3: ccarell@v.s.b.c.ca  
 Invoice Recipients

Routine [R] if received by 3pm M-F - no surcharges apply  
 4 day [4d] if received by 3pm M-F - 20% rush surcharge minimum  
 3 day [3d] if received by 3pm M-F - 25% rush surcharge minimum  
 2 day [2d] if received by 3pm M-F - 50% rush surcharge minimum  
 1 day [1d] if received by 3pm M-F - 100% rush surcharge minimum  
 Same day [SD] if received by 10am M-S - 200% rush surcharge. Additional fees may apply for rush requests on weekends, statutory holidays and non-routine tests

AFFIX ALS BARCODE LABEL HERE  
 (ALS use only)

Invoice To: Same as Report To  YES  NO  
 Copy of Invoice with Report:  YES  NO  
 Company:   
 Contact:   
 Project Information

Select Invoice Distribution:  EMAIL  MAIL  FAX  
 Email 1 or Fax:   
 Email 2:   
 Oil and Gas Required Fields (client use)  
 AFE/Cost Center:   
 Major/Minor Code:   
 Requisitioner:   
 Location:   
 PO#:   
 Routing Code:

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below  
 NUMBER OF CONTAINERS  
 Analysis Request

ALS Account # / Quote #: Magee  
 Job #: Magee  
 PO / AFE:   
 LSD:   
 ALS Lab Work Order # (ALS use only):   
 Sample Identification and/or Coordinates (This description will appear on the report)

ALS Competitor Name:   
 Date (dd-mm-yy):   
 Time (hh:mm):   
 Sampler: K. Lenay  
 Sample Type:

SAMPLES ON HOLD  
 EXTENDED STORAGE REQUIRED  
 SUSPECTED HAZARD (see notes)

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	COOLING METHOD	Submission Comments
SS. D.E	Rm. 120 Magee	04 03 22	6:55am	water	Lead	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> ICE <input type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED	
SS. D.F	Rm. 116 Magee	04 03 22	7:01am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
SS. D.F	Corr. 121 Rm. 121A Magee	04 03 22	7:09am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	Bottle Filler Rm. 122 Magee	04 03 22	7:06am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	Bottle Filler Rm. 135 Magee	04 03 22	7:10am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	SS. D.E Cor 109 Rm. 107 Magee	04 03 22	7:14am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	Bubbler Rm. 108 Magee	04 03 22	7:16am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	Bubbler Rm. 107 Magee	04 03 22	7:19am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	SS. D.F. Rm. 141A Magee	04 03 22	7:23am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	Bottle Filler Rm. 227 Magee	04 03 22	7:27am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	SS. D.F. Rm. 209 Magee	04 03 22	7:30am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	Bottle Filler Rm. 308 Magee	04 03 22	7:34am	water		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	

Environmental Division  
 Vancouver  
 Work Order Reference  
**V A 2 2 A 4 6 0 3**  
 Telephone: +1 604 253 4188

Are samples taken from a Regulated DW System?  YES  NO  
 Are samples for human consumption/use?  YES  NO

Drinking Water (DW) Samples (client use) Notes/Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SHIPPING RELEASE (client use)  
 Released by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_

INITIAL SHIPMENT RECEPTION (ALS use only)  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_

WHITE - LABORATORY COPY  
 YELLOW - CLIENT COPY

FINAL SHIPMENT RECEPTION (ALS use only)  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_

COOLING METHOD:  NONE  ICE  ICE PACKS  FROZEN  COOLING INITIATED

Submission Comments identified on Sample Receipt Notification:  YES  NO  N/A

Cooler Custody Seals Intact:  YES  NO  N/A

INITIAL COOLER TEMPERATURES °C: \_\_\_\_\_

FINAL COOLER TEMPERATURES °C: \_\_\_\_\_

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION  
 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.



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 666 9878

COC Number: 20 - 985902

Page of

Contact and company name below will appear on the final report

<b>Report To</b>		Company: Vancouver School Board		<b>Reports / Recipients</b>		<b>Turnaround Time (TAT) Requested</b>	
Contact: Stephen Thomas		Phone: 604 713 5657		Select Report Format: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EOD (DIGITAL)		<input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day [P1] if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> Same day [E2] if received by 10am M-5 - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests.	
Street: 1549 Clark Drive		City/Province: Vancouver B.C.		<input type="checkbox"/> Compare Results to Criteria with COA <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: ssthenas@vsb.bc.ca Email 2: sthenas@vsb.bc.ca Email 3: wacrell@vsb.bc.ca		For all tests with rush TATs requested, please contact your AML to confirm availability. <b>Analysis Request</b> Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below	
Postal Code: V5L 3L4		Invoice To: Same as Report To		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Date and Time Required for all EAP TATs: dd-mm-yy hh:mm am/pm	
Company: _____		Project Information		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: _____ Email 2: _____		Affix ALS Barcode Label Here (ALS use only)	
ALS Account # / Quote #: _____		Job #: Magee		AFE/COG Center: _____ Major/Minor Code: _____ Requisitioner: _____ Location: _____		NUMBER OF CONTAINERS Lead	
PO / AFE: _____		ALS Lab Work Order # (ALS use only): _____		Oil and Gas Required Fields (client use) AFE/COG Center: _____ Major/Minor Code: _____ Requisitioner: _____ Location: _____		SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)	
ALS Sample # (ALS use only): SS, D, F		Sample Identification and/or Coordinates (This description will appear on the report): Km. 328		ALS Contact: J. Talanion Date (dd-mm-yy): 04 03 22 Time (hh:mm): 7:58am Sample Type: water		Environmental Division Work Order Reference VA222A4603 Telephone: +1 804 253 4188	
Drinking Water (DW) Samples (client use) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Are samples taken from a Regulated DW System? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Are samples for human consumption/ use? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		SHIPMENT RELEASE (client use) Released by: _____ Date: _____ Time: _____		INITIAL SHIPMENT RECEPTION (ALS use only) Received by: _____ Date: _____ Time: _____		FINAL SHIPMENT RECEPTION (ALS use only) Received by: _____ Date: _____ Time: _____	
Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only) Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED Submission Comments identified on Sample Receipt Notification: _____ Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A <input type="checkbox"/> NO Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A FINAL COOLER TEMPERATURES °C: _____ INITIAL COOLER TEMPERATURES °C: _____		Affix ALS Barcode Label Here (ALS use only)		Final ALS Barcode Label Here (ALS use only)	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION  
 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.  
 WHITE - LABORATORY COPY YELLOW - CLIENT COPY  
 ALS 3002 FROM

Results Summary VA22A4603															
Project	Magee														
Report To	Stephen Thomas, Vancouver School Board														
Date Received	04-Mar-2022 15:00														
Issue Date	21-Mar-2022 15:57														
Amendment	0														
Client Sample ID			S.S D.F Rm. 120 Magee	S.S D.F Rm. 116 Magee	S.S D.F Corr. 121 Rm. 121A Magee	Bubbler Rm. 122 Magee	Bottle Filler Rm. 135 Magee	S.S D.F Cor 109 Rm. 107 Magee	Bubbler Rm. 108 Magee	Bubbler Rm. 107 Magee	S.S D.F RM. 141A Magee	Bottle Filler Rm. 227 Magee	S.S D.F Rm. 209 Magee	Bottle Filler Rm. 308 Magee	S.S D.F Rm. 328 Magee
Date Sampled			04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022	04-Mar-2022
Time Sampled			06:55	07:01	07:04	07:06	07:10	07:14	07:16	07:19	07:23	07:27	07:30	07:34	07:38
ALS Sample ID			VA22A4603-001	VA22A4603-002	VA22A4603-003	VA22A4603-004	VA22A4603-005	VA22A4603-006	VA22A4603-007	VA22A4603-008	VA22A4603-009	VA22A4603-010	VA22A4603-011	VA22A4603-012	VA22A4603-013
Analyte	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water
<b>Total Metals (Matrix: Water)</b>															
lead, total	0.000050	mg/L	0.000181	0.00252	0.000161	0.00133	<0.000050	0.000103	0.00422	0.00267	0.000483	<0.000050	0.000424	0.000542	0.000130