

VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive Vancouver BC V5L 3L4 ATTN: Stephen Thomas Date: 10-OCT-19 PO No.: 1517879 WO No.: L2358680

LSD:

Project Ref: QUILCHENA ELEMENTARY
Sample ID: CORR 301 RM 303 DF

Sampled By: Robin Lemay
Date Collected: 02-OCT-19
Lab Sample ID: L2358680-1
Matrix: Water

PAGE 1 of 5

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed		
Total Metals Lead (Pb)-Total	0.000307		mg/L	0.005		06-OCT-19		
CDWQG = Health Canada Guideline Limits updated	JUNE 2019							
* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration pleases.								

- * Lurbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality
- A blank entry designates no known limit.
- A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.

Approved by

Edward Ngai

Account Manager







VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive Vancouver BC V5L 3L4 ATTN: Stephen Thomas

Date: 10-OCT-19 **PO No.:** 1517879 **WO No.:** L2358680

LSD:

Project Ref: QUILCHENA ELEMENTARY Sample ID: CORR 201 RM 201A DF

Sampled By: Robin Lemay Date Collected: 02-OCT-19 **Lab Sample ID:** L2358680-2 Matrix: Water

PAGE 2 of 5

ATTIVE Otophich Thomas						
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00168		mg/L	0.005		06-OCT-19
CDWQG = Health Canada Guideline Limits updated	JUNE 2019					
* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa	guidelines on con					ase see

- A blank entry designates no known limit.
- A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.

Approved by

Edward Ngai

Account Manager

ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700 ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company





VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive

Date: 10-OCT-19 **PO No.:** 1517879 WO No.: L2358680

LSD:

Project Ref: QUILCHENA ELEMENTARY

Sample ID: RM 111 DF Sampled By: Robin Lemay Date Collected: 02-OCT-19 **Lab Sample ID:** L2358680-3

Matrix: Water

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Result Qualifier		Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.000155		mg/L	0.005		06-OCT-19
guidelines on cor ater Quality	ventional treatm	ent and slow sand			ase see
	0.000155 JUNE 2019 y. If present as N guidelines on corater Quality	JUNE 2019 y. If present as Nitrate then the linguidelines on conventional treatmeter Quality	Result Qualifier Units of Measure 0.000155 mg/L JUNE 2019 June	Result Qualifier Units of CDWQG Measure MAC 0.000155 mg/L 0.005 JUNE 2019 JUNE 2019	Result Qualifier Units of CDWQG Aesthetic Objective 0.000155 mg/L 0.005 JUNE 2019 JUN

Account Manager

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VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive Vancouver BC V51 31 4

Date: 10-OCT-19 **PO No.:** 1517879 WO No.: L2358680

LSD:

Project Ref: QUILCHENA ELEMENTARY

Sample ID: RM 107 DF Sampled By: Robin Lemay Date Collected: 02-OCT-19 **Lab Sample ID:** L2358680-4 Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			matrix. Wate	51	PAGE	4 of 5
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000249		mg/L	0.005		06-OCT-19
CDWQG = Health Canada Guideline Limits updated * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWC	guidelines on cor ater Quality	ventional treatn	nent and slow sand			ase see
Approved by Fdward Ngai						

Edward Ngai Account Manager

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Guidelines & Objectives

Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N* Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.

Lead* A cumulative body poison, uncommon in naturally occurring hard waters.

Fluoride* Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).

Total Coliforms* Criteria is 0 CFU/100mL. Adverse health effects.

E. Coli* Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening.

Manganese* Criteria limit is 0.12 mg/L. Possible neurological effects in infants.

*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

Aesthetic Objective Concentration Levels

Alkalinity Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.

Balance Quality control parameter ratioing cations to anions
Bicarbonate See Alkalinity. Report as the anion HCO3-1
Carbonate See Alkalinity. Reported at the anion CO3-2

Calcium See Hardness. Common major cation of water chemistry.

Chloride Common major anion of water chemistry.

Conductance Physical test measuring water salinity (dissolved ions or solids)

Hardness Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in

water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.

Hydroxide See alkalinity

Magnesium See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.

pH Measure of water acidity/alkalinity. Normal range is 7.0-8.5.

Potassium Common major cation of water chemistry.

Sodium Common major cation of water chemistry. Measure of salinity (saltiness).

Sulphate Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.

Total Dissolved Solids A measure of water salinity.

Iron Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.

Heterotrophic

Plate Count Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

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

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Chain of Custody (COC) / Analytical Request Form

L2358680-COFC

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COC Number: 17 - 762160

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Canada Toll Free: 1 800 668 9878

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hone:	604-713-5637		Compare Res	Compare Results to Criteria on Report - provide details below if box checked					Same Day, Weekend or Statutory					y holiday [E2 -200%	_	
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