

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

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Arriv. Stephen monas							
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed	
Total Metals Lead (Pb)-Total	0.000486		mg/L	0.005		11-MAY-19	
CDWQG = Health Canada Guideline Limits updated	MAY 2018						
 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 iter Quality	ventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration plea	se see	
Approved by	 						
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

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lest Description	Test Description Result Qualifier Magazine					Date
	1	1	Measure	MAC	Objective	Analyzed
Total Metals Lead (Pb)-Total	0.000323		mg/L	0.005		11-MAY-19
CDWQG = Health Canada Guideline Limits updated	MAY 2018					
 * CDWQG for Nitrate+Nitrite-N is the limit for nitrate on * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking W - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDW0 	guidelines on cor ater Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration plea	se see
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Approved by Joanne Lee Account Manager						

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Date: 15-MAY-19 PO No.: 1517879 WO No.: L2269898 LSD: Project Ref: SIR RICHARD MCBRIDE ANNEX Sample ID: RM 113 Sampled By: Chris Carrell Date Collected: 08-MAY-19 Lab Sample ID: L2269898-3 Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed		
Total Metals Lead (Pb)-Total	0.00108		mg/L	0.005		11-MAY-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 treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration plea	se see		
Approved by Joanne Lee 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.

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

Aesthetic Objective Concentration Levels

BalanceQuality control parameter ratioing cations to anionsBicarbonateSee Alkalinity. Report as the anion HCO3-1	
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	n.
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.	
Manganese Elevated levels may cause staining of laundry and porcelain.	
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

Canada Toll Free: 1 800 668 9878



COC Number: 17 - 829277

Page of

Contact and company name below will appear on the final report			Report Format / Distribution			Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)													
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Phone:	604 7:3 5637		Compare Results to Criteria on Report - provide details below if box checked				CICRUT D 8550	3 day (P3	-25%]] '	IERG!	Same Da	ay, Weel	kend or	r Statute	ory holi	iday (E2	-200%	
;	Company address below will appear on the fina	al report	Select Distribution: 🔀 EMAIL 📋 MAIL 📋 FAX										Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)]						
Street:	1549 Clark DS		Email 1 or Fax 55 monasovsB.BL.LA					Date and Time Required for all E&P TATs: do-mmm-yy hh:r								nhimm			
City/Province:	Vancouver BC	· · · · · · · · · · · · · · · · · · ·	Email 2	Email 2					r lests that can not be performed according to the service level selected, you will be contacted.										
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(lab use only)	(This description will	appear on the report)		(dd-mmm-yy)	(hh:mm)	Sample Type	Ī	<u> </u>										Ś	sus
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Drinking Water (DW) Samples' (client use)				ctronic COC only)			Frozen				SIF Observations			Yes			No		
Are samples taken from a Regulated DW System?							Ice Pa	cks 🔄	/ Ice Cube	s 🗖	Custo	dy seal ir	tact	Yes			No		
<u> </u>	ES 📋 NO	NO Pres	servatives added.				Cooling Initiated											•	
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REFER TO BACK	PAGE FOR ALS LOCATIONS AND SAMPLING IN	IFORMATION		WHI	I FE - LABORATORY	COPY YELLON	<u>.</u> N - Cliffi	NT COPY										JUNE	2018 FAONT

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