

Date: 03-JUN-19 PO No.: 1517879 WO No.: L2281686

LSD:

Project Ref: SIR MATTHEW BEGBIE ELEMENTRY

Sample ID: RM 104
Sampled By: Chris Carrell
Date Collected: 29-MAY-19
Lab Sample ID: L2281686-1

Matrix: water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: wate	r	PAGE	1 of 7
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000239		mg/L	0.005		01-JUN-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 CDWQ Approved by	guidelines on cor Iter Quality	ventional treatm	ent and slow sand			ise see
Joanne Lee						

Account Manager





Date: 03-JUN-19 PO No.: 1517879 WO No.: L2281686

LSD:

Project Ref: SIR MATTHEW BEGBIE ELEMENTRY

Sample ID: RM 010
Sampled By: Chris Carrell
Date Collected: 29-MAY-19
Lab Sample ID: L2281686-2

Matrix: water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: wate	r	PAGE	2 of 7
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000642		mg/L	0.005		01-JUN-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			ise see
Joanne Lee						

Account Manager





Date: 03-JUN-19 PO No.: 1517879 WO No.: L2281686

LSD:

Project Ref: SIR MATTHEW BEGBIE ELEMENTRY

Sample ID: RM 007 Sampled By: Chris Carrell Date Collected: 29-MAY-19 Lab Sample ID: L2281686-3

Matrix: water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	r	PAGE	3 of 7
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00115		mg/L	0.005		01-JUN-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 commany Table of Guidelines for Canadian Drinking Walliam - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQ	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





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

Date: 03-JUN-19 PO No.: 1517879 WO No.: L2281686

LSD:

Project Ref: SIR MATTHEW BEGBIE ELEMENTRY

Sample ID: RM 106
Sampled By: Chris Carrell
Date Collected: 29-MAY-19
Lab Sample ID: L2281686-4

Matrix: water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: wate	r	PAGE	4 of 7
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000303		mg/L	0.005		01-JUN-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 commany Table of Guidelines for Canadian Drinking War - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQ	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





Date: 03-JUN-19 PO No.: 1517879 WO No.: L2281686

LSD:

Project Ref: SIR MATTHEW BEGBIE ELEMENTRY

Sample ID: RM 204
Sampled By: Chris Carrell
Date Collected: 29-MAY-19
Lab Sample ID: L2281686-5

Matrix: water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: wate	r	PAGE	5 of 7
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000494		mg/L	0.005		01-JUN-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			ase see
Approved by Joanne Lee Account Manager	_					





Date: 03-JUN-19 PO No.: 1517879 WO No.: L2281686

LSD:

Project Ref: SIR MATTHEW BEGBIE ELEMENTRY

Sample ID: RM 113
Sampled By: Chris Carrell
Date Collected: 29-MAY-19
Lab Sample ID: L2281686-6

Matrix: water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: wate	r	PAGE	6 of 7
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00334		mg/L	0.005		01-JUN-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 gummary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG Approved by Joanne Lee	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager



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.

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

*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 See Alkalinity. Report as the anion HCO3-1 Bicarbonate See Alkalinity. Reported at the anion CO3-2 Carbonate

See Hardness. Common major cation of water chemistry.

Chloride Common major anion of water chemistry.

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

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

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

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).

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

Total Dissolved Solids A measure of water salinity.

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

Elevated levels may cause staining of laundry and porcelain. Manganese

Heterotrophic

Calcium

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

L2281686-COFC

coc Number: 17 - 829280

www.alsglobal.com

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) Report To Vancouver School PDF EXCEL | EDD (DIGITAL) Board Select Report Format: Regular (R) Standard TAT if received by 3 pm - business days - no surcharges apply Company: Quality Control (QC) Report with Report STEPHEN THOMAS YES NO Business day [E - 100%] 4 day [P4-20%] Contact: 604-713-5637 Compare Results to Criteria on Report - provide details below if box checked 3 day [P3-25%] Phone: Same Day, Weekend or Statutory holiday [E2 -200% X EMAIL | MAIL | FAX Company address below will appear on the final report Select Distribution: (Laboratory opening fees may apply)] 2 day (P2-50%) Clark DY SSThomas @ VSL. bc. ca Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm Email 1 or Fax Vancouver / BC Email 2 City/Province: Email 3 Analysis Request Postal Code: X YES NO nvoice To Same as Report To Invoice Distribution Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below ON HOLD Copy of Invoice with Report YES T Select Invoice Distribution: MAIL AAIL FAX R Email 1 or Fax · SSThomes & VShibc.ca Company: CONTAIN Contact: Project Information Oil and Gas Required Fields (client use) ALS Account # / Quote #: AFE/Cost Center: PO# MaHheul Major/Minor Code: Routing Code: **AMPLES** PO/AFE: Requisitioner: Location: Sampler: Chris Carrell ALS Lab Work Order # (lab use only): ALS Contact: Sample Identification and/or Coordinates Date Time ALS Sample # Sample Type (lab use only) (This description will appear on the report) (dd-mmm-vv) (hh:mm) 104 Water RM 29-May 19 14 21 RM 0/0 Water > 9-May -19 10:07 WHEF RM 007 10:18 RM 106 29-May-19 Water RM 29-May-19 water 10:24 29 Muy-19 WATER RM 5) ده ز 113 RM SAMPLE CONDITION AS RECEIVED (lab use only) Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below Drinking Water (DW) Samples1 (client use) (electronic COC only) SIF Observations Frozen No Are samples taken from a Regulated DW System? lce Packs 🏋 No YES NO Cooling Initiated preservatives Are samples for human consumption/ use? INIITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C | YES | NO SHIPMENT RELEASE (client use) INITIAL SHIPMENT RECEPTION (lab use only) FINAL SHIPMENT RECEPTION (lab use only) Received by: Released by: 29/5/19 REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY