

Date: 19-SEP-19
PO No.: 1517879
WO No.: L2346510

LSD:

Project Ref: LORD BYNG SECONDARY

Sample ID: RM B112 DF Sampled By: Robin Lemay Date Collected: 12-SEP-19 Lab Sample ID: L2346510-1

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	1 of 6
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000120		mg/L	0.005		17-SEP-19
CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate onl:  * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking War - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWG	guidelines on cor ater Quality	ventional treatm	ent and slow sand			ase see
Approved by Edward Ngai Account Manager						





**VANCOUVER SCHOOL BOARD Maintenance and Construction** 1549 Clark Drive

Date: 19-SEP-19 **PO No.:** 1517879 **WO No.:** L2346510

LSD:

Project Ref: LORD BYNG SECONDARY

Sample ID: RM 123 DF Sampled By: Robin Lemay Date Collected: 12-SEP-19 **Lab Sample ID:** L2346510-2 Matrix: Water

Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed				
0.000275		mg/L	0.005		18-SEP-19				
guidelines on con Iter Quality	ventional treatm	ent and slow sand			ase see				
	0.000275  JUNE 2019  7. If present as N guidelines on conter Quality	JUNE 2019  7. If present as Nitrate then the linguidelines on conventional treatmenter Quality	Result Qualifier Units of Measure  0.000275 mg/L  JUNE 2019  7. If present as Nitrate then the limit is 10mg/L < or guidelines on conventional treatment and slow sand	Qualifier Measure MAC  0.000275 mg/L 0.005  JUNE 2019  7. If present as Nitrate then the limit is 10mg/L < or N.D. = less than deguidelines on conventional treatment and slow sand or diatomaceous enter Quality	Result Qualifier Units of CDWQG Aesthetic Objective  0.000275 mg/L 0.005  JUNE 2019  7. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. guidelines on conventional treatment and slow sand or diatomaceous earth filtration pleater Quality				

Account Manager





Date: 19-SEP-19
PO No.: 1517879
WO No.: L2346510

LSD:

Project Ref: LORD BYNG SECONDARY

Sample ID: RM 107 DF
Sampled By: Robin Lemay

Date Collected: 12-SEP-19
Lab Sample ID: L2346510-3

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas		PAGE	3 of 6			
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000120		mg/L	0.005		17-SEP-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	guidelines on cor Iter Quality	ventional treatm	ent and slow sand			ase see
Approved by Edward Ngai						

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Account Manager





Date: 19-SEP-19
PO No.: 1517879
WO No.: L2346510

LSD:

Project Ref: LORD BYNG SECONDARY

Sample ID: RM B120 FS
Sampled By: Robin Lemay
Date Collected: 12-SEP-19
Lab Sample ID: L2346510-4

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	4 of 6
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00121		mg/L	0.005		17-SEP-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 a 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  Edward Ngai	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





Date: 19-SEP-19
PO No.: 1517879
WO No.: L2346510

LSD:

Project Ref: LORD BYNG SECONDARY

Sample ID: RM 102 DF
Sampled By: Robin Lemay

Date Collected: 12-SEP-19
Lab Sample ID: L2346510-5

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Wattik. Wate	əi	PAGE	5 of 6
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000164		mg/L	0.005		17-SEP-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			ase see
Approved by Edward Ngai	_					

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.

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.

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

рΗ

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 Toli Free: 1 800 668 9878

COC Number: 17 - 756179

	www.aisglobal.com								ノエ								
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