



Date: 11-JUL-19

PO No.: 1517879

WO No.: L2306641

LSD:

Project Ref: QUEEN ELIZABETH ELEMENTARY

Sample ID: QELI ROOM 110 DF

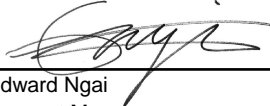
Sampled By: Robin Lemay

Date Collected: 09-JUL-19

Lab Sample ID: L2306641-1

Matrix: Water

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

| Test Description | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|----------|-----------|------------------|-----------|---------------------|---------------|
| Total Metals Lead (Pb)-Total | 0.000287 | | mg/L | 0.005 | | 10-JUL-19 |
| <p>CDWQG = Health Canada Guideline Limits updated JUNE 2019</p> <p>* 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 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.</p> | | | | | | |
| <p>Approved by  Edward Ngai Account Manager</p> | | | | | | |



Date: 11-JUL-19

PO No.: 1517879

WO No.: L2306641

LSD:

Project Ref: QUEEN ELIZABETH ELEMENTARY

Sample ID: QELI ROOM B121 DF

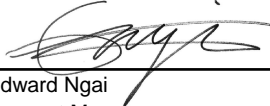
Sampled By: Robin Lemay

Date Collected: 09-JUL-19

Lab Sample ID: L2306641-2

Matrix: Water

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

| Test Description | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|----------|-----------|------------------|-----------|---------------------|---------------|
| Total Metals Lead (Pb)-Total | 0.000801 | | mg/L | 0.005 | | 10-JUL-19 |
| <p>CDWQG = Health Canada Guideline Limits updated JUNE 2019</p> <p>* 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 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.</p> | | | | | | |
| <p>Approved by  Edward Ngai Account Manager</p> | | | | | | |



Date: 11-JUL-19

PO No.: 1517879

WO No.: L2306641

LSD:

Project Ref: QUEEN ELIZABETH ELEMENTARY

Sample ID: QELI ROOM 140A DF

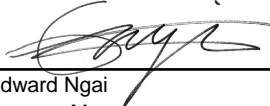
Sampled By: Robin Lemay

Date Collected: 09-JUL-19

Lab Sample ID: L2306641-3

Matrix: Water

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

| Test Description | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|----------|-----------|------------------|-----------|---------------------|---------------|
| Total Metals Lead (Pb)-Total | 0.000187 | | mg/L | 0.005 | | 10-JUL-19 |
| <p>CDWQG = Health Canada Guideline Limits updated JUNE 2019</p> <p>* 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 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.</p> | | | | | | |
| <p>Approved by  Edward Ngai Account Manager</p> | | | | | | |



Date: 11-JUL-19

PO No.: 1517879

WO No.: L2306641

LSD:

Project Ref: QUEEN ELIZABETH ELEMENTARY

Sample ID: QELI ROOM 136A DF

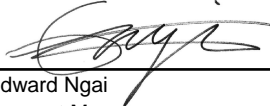
Sampled By: Robin Lemay

Date Collected: 09-JUL-19

Lab Sample ID: L2306641-4

Matrix: Water

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

| Test Description | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|----------|-----------|------------------|-----------|---------------------|---------------|
| Total Metals Lead (Pb)-Total | 0.000095 | | mg/L | 0.005 | | 10-JUL-19 |
| <p>CDWQG = Health Canada Guideline Limits updated JUNE 2019</p> <p>* 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 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.</p> | | | | | | |
| <p>Approved by  Edward Ngai Account Manager</p> | | | | | | |

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

| | |
|---------------------------|---|
| 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 HCO ₃ -1 |
| Carbonate | See Alkalinity. Reported at the anion CO ₃ -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. |
| 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.

