



**VANCOUVER SCHOOL BOARD**  
**Maintenance and Construction**  
**1549 Clark Drive**  
**Vancouver BC V5L 3L4**

**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP 171 FS  
**Sampled By:**

Fountain no  
longer in service

**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-8  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	0.000628		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b>						
* 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.						
Approved by <u>Heather McKenzie</u> Heather McKenzie Account Manager						

ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700  
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Vancouver BC V5L 3L4

Date: 12-OCT-17  
PO No.: 0000132962  
WO No.: L1999375

LSD:  
Project Ref:  
Sample ID: TEMP 125 BOB

Sampled By:  
Date Collected: 27-SEP-17  
Lab Sample ID: L1999375-9  
Matrix: Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b> Lead (Pb)-Total	0.000339		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b> * 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.						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP WA

**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-10  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	<0.000050		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b> * 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.						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP 120 BOB

**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-11  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b> Lead (Pb)-Total	0.00847		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b> * 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.						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP 109 DF  
**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-12  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	0.00500		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b>						
* 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.						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**

**Project Ref:**

**Sample ID:** TEMP 137 D

**Sampled By:**

**Date Collected:** 27-SEP-17

**Lab Sample ID:** L1999375-13

**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b> Lead (Pb)-Total	0.00213		mg/L	0.01		05-OCT-17
<p><b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; 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>						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP 314 DF

**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-14  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	0.00247		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b>						
<p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; 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>						
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**Date:** 12-OCT-17  
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**WO No.:** L1999375  
**LSD:**

**Project Ref:**  
**Sample ID:** TEMP 317 DF  
**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-15  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	0.00380		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b>						
* 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						
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- A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375  
**LSD:**

**Project Ref:**  
**Sample ID:** TEMP 213 DF

**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-16  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	0.00285		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b> * 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.						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP 162 DF

**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-17  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b> Lead (Pb)-Total	0.00270		mg/L	0.01		05-OCT-17
<p><b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; 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>						
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**Date:** 12-OCT-17  
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**WO No.:** L1999375  
**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP 129 BUB  
**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-18  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b> Lead (Pb)-Total	0.00359		mg/L	0.01		05-OCT-17
<p><b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; 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>						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP 185 FS  
**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-19  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	<0.000050		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b>						
* 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						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375  
**LSD:**  
**Project Ref:**  
**Sample ID:** TEMP 126 BUB  
**Sampled By:**  
**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-20  
**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	0.00614		mg/L	0.01		05-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b> * 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.						
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**Date:** 12-OCT-17  
**PO No.:** 0000132962  
**WO No.:** L1999375

**LSD:**

**Project Ref:**  
**Sample ID:** TEMP 116 DF

**Fountain no  
longer in service**

**Sampled By:**

**Date Collected:** 27-SEP-17  
**Lab Sample ID:** L1999375-21

**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b> Lead (Pb)-Total	0.0153		mg/L	0.01		10-OCT-17
<b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b> * 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.						
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**Date:** 12-OCT-17

**PO No.:** 0000132962

**WO No.:** L1999375

**LSD:**

**Project Ref:**

**Sample ID:** TEMP 127 BUB

**Sampled By:**

**Date Collected:** 27-SEP-17

**Lab Sample ID:** L1999375-22

**Matrix:** Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
<b>Total Metals</b>						
Lead (Pb)-Total	0.000993		mg/L	0.01		10-OCT-17
<p><b>CDWQG = Health Canada Guideline Limits updated DECEMBER 2015</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; 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>						
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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

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 <sub>3</sub> -1
Carbonate	See Alkalinity. Reported at the anion CO <sub>3</sub> -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.*