

 Date:
 19-SEP-17

 PO No.:
 0000132962

 WO No.:
 L1989913

 LSD:

 Project Ref:

 Sample ID:
 NELS 106 SSDF

 Sampled By:

 Date Collected:
 11-SEP-17

 Lab Sample ID:
 L1989913-14

 Matrix:
 Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000429		mg/L	0.01		15-SEP-1
CDWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For gu Summary Table of Guidelines for Canadian Drinking Wate A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQG	uidelines on cor er Quality	litrate then the lin ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	lection limit. arth filtration ple	ase see
Approved by HMCKenzie Heather McKenzie Account Manager	_		1 1			~
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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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 Date:
 19-SEP-17

 PO No.:
 0000132962

 WO No.:
 L1989913

 LSD:
 Sample ID:

 Project Ref:
 NELS 111A FGDF

 Sample ID:
 NELS 111A FGDF

 Date Collected:
 11-SEP-17

 Lab Sample ID:
 L1989913-15

 Matrix:
 Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00118		mg/L	0.01	E.	15-SEP-17
CDWQG = Health Canada Guideline Limits updated * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. * Turbidity guideline based on membrane filtration. For gu Summary Table of Guidelines for Canadian Drinking Wate - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG	idelines on co er Quality	litrate then the lin nventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. arth filtration plea	se see
Approved by HMCKenzie Heather McKenzie Account Manager	- .				4).	
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 Date:
 19-SEP-17

 PO No.:
 0000132962

 WO No.:
 L1989913

 LSD:

 Project Ref:

 Sample ID:
 NELS 212 DF

 Sampled By:

 Date Collected:
 11-SEP-17

 Lab Sample ID:
 L1989913-16

 Matrix:
 Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00305		mg/L	0.01	2	15-SEP-
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For g ummary Table of Guidelines for Canadian Drinking Wat A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQC	uidelines on co er Quality	litrate then the lin	ent and slow sand o	l.D. = less than de or diatomaceous e	tection limit. arth filtration ple	ase see
Approved by AM GKenyie Heather McKenzie Account Manager	_					
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Date:	19-SEP-17
PO No.:	0000132962
WO No.:	L1989913
LSD:	
Project Ref:	
Sample ID:	NELS 005A DF
Sampled By:	34
Date Collected:	11-SEP-17
Lab Sample ID:	L1989913-17
Matrix:	Water

Fountain no longer in service

Aesthetic Date Units of CDWQG **Test Description** Qualifier Result MAC Analyzed Measure Objective **Total Metals** 15-SEP-17 Lead (Pb)-Total 0.00189 mg/L 0.01 **DECEMBER 2015** CDWQG = Health Canada Guideline Limits updated * 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 delection 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 ____ Heather McKenzie Account Manager

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 Date:
 19-SEP-17

 PO No.:
 0000132962

 WO No.:
 L1989913

 LSD:

 Project Ref:

 Sample ID:
 NELS 018 DF

 Sampled By:

 Date Collected:
 11-SEP-17

 Lab Sample ID:
 L1989913-18

 Matrix:
 Water

Units of CDWQG Aesthetic Date **Test Description** Result Qualifier MAC Objective Analyzed Measure **Total Metals** Lead (Pb)-Total 0.000686 15-SEP-17 mg/L 0.01 **DECEMBER 2015** CDWQG = Health Canada Guideline Limits updated * 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. Melemi Approved by Heather McKenzie Account Manager

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 Date:
 19-SEP-17

 PO No.:
 0000132962

 WO No.:
 L1989913

 LSD:

 Project Ref:

 Sample ID:
 NELS 035 FGDF

 Sampled By:

 Date Collected:
 11-SEP-17

 Lab Sample ID:
 L1989913-19

 Matrix:
 Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000272		mg/L	0.01		15-SEP-17
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 co ter Quality	Nitrate then the lin inventional treatm	ent and slow sand	I.D. = less than def or diatomaceous e	ection limit. arth filtration ple	ese see
Approved by <u>Heather McKenzie</u> Heather McKenzie 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 infant	Sie				
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 See Alkalinity. Report as the anion HCO3-1 Bicarbonate See Alkalinity. Reported at the anion CO3-2 Carbonate Calcium See Hardness. Common major cation of water chemistry. Common major anion of water chemistry. Chloride 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. pН Common major cation of water chemistry. Potassium Common major cation of water chemistry. Measure of salinity (saltiness). Sodium Sulphate Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action. A measure of water salinity. Total Dissolved Solids Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air. Iron 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.