

REPORTED TO PROJECT Lumby, Village of Comprehensive

WORK ORDER REPORTED 4011273 Feb-04-14

Analysis Description	Method Reference (* = modified from)		Location
	Preparation	Analysis	
Alkalinity, total	N/A	APHA 2320 B	Kelowna
Chloride in Water by IC	N/A	APHA 4110 B	Kelowna
Colour, True at 410 nm	N/A	APHA 2120 C *	Kelowna
Conductivity in Water	N/A	APHA 2510 B	Kelowna
Cyanide, Total in Liquids	APHA 4500-CN C	APHA 4500-CN E	Kelowna
E. coli (Partition Method)	N/A	APHA 9222 G	Kelowna
Fluoride in Water by IC	N/A	APHA 4110 B	Kelowna
Hardness as CaCO3 (CALC)	N/A	APHA 2340 B	Richmond
Nitrate-N in Water by IC	N/A	APHA 4110 B	Kelowna
Nitrite-N in Water by IC	N/A	APHA 4110 B	Kelowna
pH in Water	N/A	APHA 4500-H+ B	Kelowna
Sulfate in Water by IC	N/A	APHA 4110 B	Kelowna
Total Coliforms (by Endo)	N/A	APHA 9222 B	Kelowna
Total Recoverable Metals	APHA 3030E *	APHA 3125 B	Richmond
Transmissivity at 254 nm	N/A	APHA 5910 B	Kelowna
Turbidity	N/A	APHA 2130 B	Kelowna

Note: The numbers in brackets represent the year that the method was published/approved

Method Reference Descriptions:

APHA Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Glossary of Terms:

MRL	Method Reporting Limit
<	Less than the Reported Detection Limit (RDL) - the RDL may be higher than the MRL due to various factors such as dilutions, limited sample volume, high moisture, or interferences
AO	Aesthetic objective
MAC	Maximum acceptable concentration (health-related guideline)
%	Percent W/W
CFU/100mL	Colony Forming Units per 100 mL
Color Unit	Colour referenced against a platinum cobalt standard
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
pH units	pH < 7 = acidic, pH > 7 = basic
uS/cm	Microsiemens per centimeter

SAMPLE ANALYTICAL DATA

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Analyte	Result / Recovery	Canadian DWQ Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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Sample ID: Middle Well - Raw (4011273-01) [Water] Sampled: Jan-28-14 08:20

Anions

Alkalinity, Total as CaCO ₃	209	No Guideline	1 mg/L		N/A	Jan-28-14	
Chloride	3.23	AO ≤ 250	0.10 mg/L		N/A	Jan-30-14	
Fluoride	0.38	MAC = 1.5	0.10 mg/L		N/A	Jan-30-14	
Nitrogen, Nitrate as N	< 0.010	MAC = 10	0.010 mg/L		N/A	Jan-30-14	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010 mg/L		N/A	Jan-30-14	
Sulfate	129	AO ≤ 500	1.0 mg/L		N/A	Jan-30-14	

General Parameters

Colour, True	< 5	AO ≤ 15	5 Color Unit		N/A	Jan-30-14	
Conductivity (EC)	649	No Guideline	2 uS/cm		N/A	Jan-28-14	
Cyanide, total	< 0.010	MAC = 0.2	0.010 mg/L		Feb-04-14	Feb-04-14	
pH	8.02	AO = 6.5 - 8.5	0.01 pH units		N/A	Jan-28-14	
Turbidity	0.1	See Guidelines	0.1 NTU		N/A	Jan-28-14	
UV Transmittance @ 254nm	98.6	No Guideline	0.1 %		N/A	Jan-31-14	

Calculated Parameters

Hardness, Total (Total as CaCO ₃)	307	No Guideline	5.0 mg/L		N/A	N/A	
Solids, Total Dissolved	393	No Guideline	10.0 mg/L		N/A	N/A	

Total Recoverable Metals

Aluminum, total	< 0.05	AO ≤ 0.1	0.05 mg/L		Jan-29-14	Jan-30-14	
Antimony, total	< 0.001	MAC = 0.006	0.001 mg/L		Jan-29-14	Jan-30-14	
Arsenic, total	< 0.005	MAC = 0.01	0.005 mg/L		Jan-29-14	Jan-30-14	
Barium, total	0.05	MAC = 1	0.05 mg/L		Jan-29-14	Jan-30-14	
Beryllium, total	< 0.001	No Guideline	0.001 mg/L		Jan-29-14	Jan-30-14	
Boron, total	< 0.04	MAC = 5	0.04 mg/L		Jan-29-14	Jan-30-14	
Cadmium, total	< 0.0001	MAC = 0.005	0.0001 mg/L		Jan-29-14	Jan-30-14	
Calcium, total	85.6	No Guideline	2.0 mg/L		Jan-29-14	Jan-30-14	
Chromium, total	< 0.005	MAC = 0.05	0.005 mg/L		Jan-29-14	Jan-30-14	
Cobalt, total	< 0.0005	No Guideline	0.0005 mg/L		Jan-29-14	Jan-30-14	
Copper, total	< 0.002	AO ≤ 1	0.002 mg/L		Jan-29-14	Jan-30-14	
Iron, total	< 0.10	AO ≤ 0.3	0.10 mg/L		Jan-29-14	Jan-30-14	
Lead, total	< 0.001	MAC = 0.01	0.001 mg/L		Jan-29-14	Jan-30-14	
Magnesium, total	22.6	No Guideline	0.1 mg/L		Jan-29-14	Jan-30-14	
Manganese, total	0.128	AO ≤ 0.05	0.002 mg/L		Jan-29-14	Jan-30-14	
Mercury, total	< 0.0002	MAC = 0.001	0.0002 mg/L		Jan-29-14	Jan-30-14	
Molybdenum, total	0.007	No Guideline	0.001 mg/L		Jan-29-14	Jan-30-14	
Nickel, total	0.008	No Guideline	0.002 mg/L		Jan-29-14	Jan-30-14	
Phosphorus, total	< 0.2	No Guideline	0.2 mg/L		Jan-29-14	Jan-30-14	
Potassium, total	5.4	No Guideline	0.2 mg/L		Jan-29-14	Jan-30-14	
Selenium, total	< 0.005	MAC = 0.01	0.005 mg/L		Jan-29-14	Jan-30-14	
Silicon, total	7	No Guideline	5 mg/L		Jan-29-14	Jan-30-14	
Silver, total	< 0.0005	No Guideline	0.0005 mg/L		Jan-29-14	Jan-30-14	
Sodium, total	19.9	AO ≤ 200	0.2 mg/L		Jan-29-14	Jan-30-14	
Uranium, total	0.0013	MAC = 0.02	0.0002 mg/L		Jan-29-14	Jan-30-14	
Vanadium, total	< 0.01	No Guideline	0.01 mg/L		Jan-29-14	Jan-30-14	

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Sample ID: Middle Well - Raw (4011273-01) [Water] Sampled: Jan-28-14 08:20, Continued

Total Recoverable Metals, Continued

Zinc, total	< 0.04	AO ≤ 5	0.04	mg/L	Jan-29-14	Jan-30-14	
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Microbiological Parameters

Coliforms, Total	< 1	MAC < 1	1	CFU/100mL	Jan-29-14	Jan-30-14	
E. coli	< 1	MAC < 1	1	CFU/100mL	Jan-29-14	Jan-30-14	