Kalamalka Intake Water Quality 2019

Water System:	**Greater Vernon Water**
Source:	**Kalamalka Lake**
Sampling Point:	**Kal Intake**
Date of Sample:	**7/16/2019**

REGIONAL DISTRICT NORTH OKANAGAN

		Canadian Drinking Water Guidelines	
Anions	**Results (mg/L)**	**Maximum Acceptable Concentration (MAC)**	**Aesthetic Objective (AO)**
Chloride	8.83 ± 0.49		<250
Fluoride	0.31 ± 0.05	1.5	
Nitrate (As N)	0.028 ± 0.004	10	
Nitrite (as N)	< 0.010	1	
Sulphate	52.3 ± 6.2		≤500
General Parameters	**Results (mg/L)**	**Maximum Acceptable Concentration (MAC)**	**Aesthetic Objective (AO)**
Alkalinity, Bicarbonate (as CaCO3)	153	N/A	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	
Alkalinity, Total (as CaCO3)	153 ± 8	N/A	
Carbon, Dissolved Organic	3.68 ± 0.54	N/A	
Carbon, Total Organic	3.78 ± 0.45	N/A	
Chlorophyll a	2.88	N/A	
Colour, True	< 5.0		≤15
Conductivity (EC)	393 ± 10	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.311 ± 0.060	N/A	
pH	8.20 ± 0.02	7.0 - 10.5	
Phosphorus, Total (as P)	0.085 ± 0.0014	N/A	
Phosphorus, Total Dissolved	< 0.0020	N/A	
Turbidity	1.20 ± 0.08		OG <1
UV Transmittance @ 254nm	89.8 ± 13.5	N/A	
Calculated Parameters	**Results (mg/L)**	**Maximum Acceptable Concentration (MAC)**	**Aesthetic Objective (AO)**
Hardness, Total	169	N/A	
Total Dissolved Solids	233		≤500
Total Metals	**Results (mg/L unless noted)**	**Maximum Acceptable Concentration (MAC)**	**Aesthetic Objective (AO)**
Aluminum, total	0.0095 ± 0.0084	N/A	OG ≤0.1
Antimony, total	< 0.00020	0.006	
Arsenic, total	0.00102 ± 0.00042	0.01	
Barium, total	0.0292 ± 0.0038	1	
Boron, total	0.0261 ± 0.0128	5	
Cadmium, total	< 0.000010	0.005	
Calcium, total	36.6 ± 5.2	N/A	
Chromium, total	0.00120 ± 0.00055	0.05	
Cobalt, total	< 0.00010	N/A	
Copper, total	0.0273 ± 0.0042	2	<1
Iron, total	0.017 ± 0.016		≤0.3
Lead, total	< 0.00020	0.005	
Magnesium, total	18.8 ± 2.6	N/A	
Manganese, total	0.00418 ± 0.00372	0.12	≤0.02
Mercury, total	< 0.000010	0.001	
Molybdenum, total	0.00518 ± 0.00075	N/A	
Nickel, total	0.00059 ± 0.00042	N/A	
Potassium, total	4.88 ± 0.74		
Selenium, total	0.00097 ± 0.00040	0.05	
Sodium, total	18.2 ± 3.2		≤200
Uranium, total	0.00322 ± 0.00039	0.02	
Zinc, total	0.0041 ± 0.0049		≤5