

# Shuswap River Intake Water Quality 2022

Water System: Grindrod Water System  
 Source: Shuswap River  
 Sampling Point: Shuswap River Intake  
 Date of Sample: 5/17/2022



**REGIONAL DISTRICT  
NORTH OKANAGAN**

		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Chloride	0.51		AO ≤250
Fluoride	<0.10	1.5	
Nitrate (As N)	0.033	10	
Nitrite (as N)	<0.01	1	
Sulphate	7.00		AO ≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
UV Transmittance @ 254nm (%)	85.5	N/A	
Alkalinity, Bicarbonate (as CaCO3)	63.9	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)	63.9	N/A	
Carbon, Dissolved Organic	2.7	N/A	
Carbon, Total Organic	3.38	N/A	
Chlorophyll a	1.17	N/A	
Colour, True (CU)	9.20		AO ≤15
Conductivity (umho/cm)	104	N/A	
Cyanide, Total	<0.002	0.2	
Nitrogen, Total Kjeldahl	0.121	N/A	
pH	6.99	7.0 - 10.5	
Phosphorus, Total (as P)	<0.05	N/A	
Phosphorus, Total Dissolved	0.0073	N/A	
Turbidity (NTU)	1.61		OG <1
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Hardness, Total	48.5	N/A	
Total Dissolved Solids	62		AO <500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Aluminum, total	0.0765	no current guideline	OG <0.1
Antimony, total	<0.0002	0.006	
Arsenic, total	<0.0005	0.01	
Barium, total	0.01	1	
Boron, total	<0.05	5	
Cadmium, total	<0.00001	0.005	
Calcium, total	16.1	no current guideline	
Chromium, total	<0.0005	0.05	
Cobalt, total	<0.0001	no current guideline	
Copper, total	0.00179	2	
Iron, total	0.099		AO ≤0.30
Lead, total	<0.0002	0.005	
Magnesium, total	2.01	no current guideline	
Manganese, total	0.00428	0.12	
Mercury, total	<0.00001	0.001	
Molybdenum, total	0.00068	no current guideline	
Nickel, total	0.00043	no current guideline	
Potassium, total	0.90		
Selenium, total	<0.0005	0.05	
Sodium, total	1.39		AO ≤200
Uranium, total	0.000364	0.02	
Zinc, total	<0.004		AO ≤5

Notes: No current Guideline ; Reference Health Canada

Hardness - no guideline - "Hardness Levels between 80 and 100 mg/L as CaCo3 are considered acceptable; levels greater than 200 are considered poor but can be tolerated; those in excess of 500 are normally considered unacceptable.

Turbidity - 1 NTU when disinfection required; <5 NTU aesthetic clarity

"<" = less than detection limit shown

">" = greater than upper range limit shown

"n" = less than number shown (Detected)

">" = greater than number shown (Detected)

\* Criteria Exceeded