

BASS Creek – Sept 2023 – raw water sample

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.020	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	<0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	<0.0001	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0029	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	<0.002	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.007	Below MAC
Chromium	Extractable	mg/L	0.00019	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0006	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.00008	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.074	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	0.0012	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00072	0.00005		
Zinc	Extractable	mg/L	0.0071	0.0005	5.0	Below AO
Physical and Aggregate Properties						
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.50	0.1	0.1/0.3/1.0 OG	
Routine Water						
pH			7.62	0.01	7.0-10.5	Within Range
pH - Holding Time			Exceeded			
Temp. of observed pH		°C	23.6			
Electrical Conductivity	at 25 °C	µS/cm	96	1		
Calcium	Extractable	mg/L	14	0.01		
Iron	Extractable	mg/L	0.014	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	1.7	0.02		
Manganese	Extractable	mg/L	0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	0.48	0.04		
Silicon	Extractable	mg/L	5.0	0.005		
Sodium	Extractable	mg/L	2.4	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	42	5		
Chloride	Dissolved	mg/L	0.10	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.18	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	<0.01	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	4.1	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	41	1		
Total Dissolved Solids	Extractable	mg/L	62	1	500	Below AO

Guidelines

Guideline Description Health Canada GCDWQ
 Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, August 2024
 Guideline Comments MAC = Maximum Acceptable Concentration
 AO = Aesthetic Objective
 OG = Operational Guideline for Water Treatment Plants
 (does not apply to private groundwater wells).
 Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca