

**Table 3.17 Water Chemistry Results for 14 Samples from Eagle River and Tributaries**

Parameters	Method	EQL	Units	Samples with Quantifiable Levels	Summary Statistics				CCME Guidelines *
					Maximum	Minimum	Median	Mean	
Temperature	Hydrolab		°C	14	6.09	3.07	4.27	4	narrative
pH	Hydrolab		units	14	7.8	6.49	7.365	7	6.5 - 9.0
Conductivity	Hydrolab		µS/cm	14	9.2	2.4	6.2	6	
Dissolved O <sub>2</sub>	Hydrolab		mg/L	14	12.57	9.61	11.065	11	5.5 - 9.5
Turbidity	Hydrolab	0.1	NTU	14	9.2	1.4	3.15	4	narrative
Alkalinity (as CaCO <sub>3</sub> )	COBAS	5	mg/L	11	34	< 5	6		
Total Dissolved Solids	Grav.	10	mg/L	14	40	10	30	29	
Aluminum	ICP-MS	10	µg/L	14	170	80	100	111	5 - 100
Antimony	ICP-MS	2	µg/L	0	< 2		< 2		
Arsenic	ICP-MS	2	µg/L	0	< 2		< 2		5
Barium	ICP-MS	5	µg/L	7	8	< 5	5		
Beryllium	ICP-MS	5	µg/L	0	< 5		< 5		
Bismuth	ICP-MS	2	µg/L	0	< 2		< 2		
Boron	ICP-MS	5	µg/L	1	6	< 5	< 5		
Cadmium	ICP-MS	0.3	µg/L	1	0.3	< 0.3	< 0.3		0.017
Chromium	ICP-MS	2	µg/L	0	< 2		< 2		8.9
Cobalt	ICP-MS	1	µg/L	0	< 1		< 1		
Copper	ICP-MS	2	µg/L	5	< 2	< 2	< 2		2-4
Iron	ICP-MS	20	µg/L	14	2300	150	520	736	300
Lead	ICP-MS	0.5	µg/L	0	< 0.5		< 0.5		1 - 7
Manganese	ICP-MS	2	µg/L	14	71	6	10.5	16	
Molybdenum	ICP-MS	2	µg/L	0	< 2		< 2		
Nickel	ICP-MS	2	µg/L	0	< 2		< 2		25 - 150
Selenium	ICP-MS	2	µg/L	0	< 2		< 2		1.0
Silver	ICP-MS	0.5	µg/L	0	< 0.5		< 0.5		0.1
Strontium	ICP-MS	5	µg/L	14	18	7	12	12	
Thallium	ICP-MS	0.1	µg/L	0	< 0.1		< 0.1		0.8
Tin	ICP-MS	2	µg/L	0	< 2		< 2		
Titanium	ICP-MS	2	µg/L	3	3	< 2	< 2		
Uranium	ICP-MS	0.1	µg/L	0	< 0.1		< 0.1		
Vanadium	ICP-MS	2	µg/L	0	< 2		< 2		
Zinc	ICP-MS	2	µg/L	14	8	2	2.5	3.4	30

\* CCME Guidelines for Protection of Aquatic Life (CCME 2000).

**Note:** Maximum level for copper has been corrected to read <2 µg/L.