

Table 10 Water Quality Measurements and Regulatory Levels

<b>SUMMARY OF WATER QUALITY ANALYTES AND REGULATORY LEVELS (Regulatory Levels are Drinking Water Standards)</b>					
<b>Analyte</b>	<b>Units</b>	<b>Range of Measured Values</b>	<b>Average Value</b>	<b>US EPA Maximum Contaminant Level (MCL) (Health-based)</b>	<b>US EPA Secondary Maximum Contaminant Level (Aesthetics-based)</b>
Temperature	°F	50.0 – 87.5	67.7	-	-
pH		6.6 – 8.6	8.1	-	6.5 – 8.5
Dissolved Oxygen	mg/L	4.2 – 12.1	8.9	-	-
Field conductivity	uS/cm	88 - 1075	888.9	-	-
Alkalinity in CaCO <sub>3</sub> units	mg/L	100 -130	124.4	-	-
Ammonia Nitrogen	mg/L	ND - 0.40	Note 1	-	-
Barium, Total, ICAP/MS	ug/L	98 - 180	115.8	2000	-
Bromide	ug/L	66 - 100	79.8	-	-
Calcium, Total, ICAP	mg/L	60 - 82	72.1	-	-
Chloride	mg/L	72 - 95	83.2	-	250
Copper, Total, ICAP/MS	ug/L	ND – 4.4	Note 1	1300	1000
Dissolved Organic Carbon	mg/L	2.8 – 9.5	3.4	-	-
Iron, Dissolved ICAP	mg/L	ND – 0.026	Note 1		
Iron, Total, ICAP	mg/L	ND – 0.95	Note 1	-	0.3
Magnesium, Total, ICAP	mg/L	22 – 31	27.4	-	-
Manganese, Total, ICAP	ug/L	2.2 – 61	10.0	-	50
Nitrate as Nitrogen by IC	mg/L	ND – 0.40	Note 1	10	-
Orthophosphate-P	mg/L	ND – 0.063	Note 1	-	-
Potassium, Total, ICAP	mg/L	3.8 – 5.4	4.6	-	-
Silica	mg/L	5.2 – 13	8.2	-	-
Sodium, Total, ICAP	mg/L	73 – 100	88.8	-	-
Specific Conductance	uS/cm	870 – 1000	941	-	-
Strontium, ICAP	mg/L	0.87 – 1.2	1.0	-	-
Sulfate	mg/L	210 – 250	226	-	250
Total Dissolved Solids	mg/L	560 – 700	611.8	-	500
Total phosphorus-P	mg/L	ND – 0.045	Note 1	-	-
Total Suspended Solids	mg/L	ND - 33	Note 1	-	-
Turbidity	NTU	0.3 – 35	3.0	0.5	-
<b>Metals / Priority Pollutants</b>					
Arsenic	ug/L	2.2 – 4.7	3.2	10	-
Chromium	ug/L	ND – 6.6	Note 1	100	-
Lead	ug/L	ND – 1.6	Note 1	15	-
Mercury	ug/L	0.89 – 1.3	1.1	2	-
<b>VOC's</b>					
Benzene	ug/L	ND – 0.78	Note 1	5	-
Styrene	ug/L	ND – 0.58	Note 1	100	-
<b>Herbicides</b>					
2,4-D	ug/L	ND – 0.14	Note 1	70	-

Note 1: Average value was not calculated due to test species not being detected consistently throughout the year. See attached summary tables of priority pollutant results for locations and measured amounts.