



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2020 TO 12/31/2020

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/10/2020

Parameter	Units ¹	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Limit ²
Aggressive Index Number	Units	12	10	12	12	11	12	12	12	12	12	12	-	N/A
Alkalinity, Bicarbonate	mg/L	88	32	82	84	59	82	102	105	105	120	106	-	0
Alkalinity, Carbonate	mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Hydroxyl	mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Phenolphthalein	mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Total	mg/L	88	32	82	84	59	82	102	105	105	120	106	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*	5
Bromide	mg/L	0.04	0.03	0.01	0.02	0.02	0.01	0.03	0.03	0.02	0.03	0.03	0.03	0.01
Carbon Dioxide	mg/L	1	2	3	1	2	3	2	2	1	1	3	-	N/A
Chloride	mg/L	15.8	31.6	11.5	11.4	12.7	7.2	14.9	16.4	9.0	16.8	24.9	-	5.0
Color	Units	5.0	45	5.0	7.5	25	10	7.5	7.5	7.5	7.5	15	-	0
Dissolved Oxygen	mg/L	14.3	11.1	10.7	10.1	9.4	7.2	7.9	8.7	8.2	10.4	9.7	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	93	28	79	81	48	72	91	96	85	102	85	-	10
Hardness, Total	mg/L	125	48	106	111	70	100	129	138	120	148	123	-	10
Methylene Blue Activated Substances	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.20
N, Nitrate (Nitrate as N)	mg/L	1.37	0.53	1.04	0.93	0.72	0.86	0.60	0.68	0.77	0.71	0.92	-	0.20
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	Units	8.2	7.5	7.8	8.2	7.8	7.8	8.0	8.1	8.4	8.3	7.8	-	N/A
Phosphate as Phosphorous	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.10
Orthophosphate as PO ₄	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.31
Solids, Total	mg/L	193	330	152	163	149	154	176	214	180	220	202	-	1
Solids, Total Dissolved	mg/L	128	136	190	140	116	158	184	234	144	230	222	-	1
Solids, Total Suspended	mg/L	2	156	3	5	28	27	8	14	16	5	4	-	1
Specific Conductivity	µmhos/cm	302	183	256	264	189	233	308	324	260	358	338	-	0
Sulfate	mg/L	33.3	5.6	24.7	27.0	11.5	18.9	25.8	28.6	20.2	35.7	18.7	-	5.0
Temperature	°C	3.8	9.3	11.7	16.0	15.1	25.4	29.7	27.8	25.6	20.1	12.1	-	N/A
Threshold Odor Number	Units	9	14	8	12	8	6	12	6	8	8	12	-	0
Total Organic Carbon	mg/L	1.7	5.4	1.7	1.5	3.2	2.2	1.9	2.4	1.9	1.5	3.4	-	0.5
Turbidity	NTU	3.0	160	3.6	3.8	23	17	6.8	12	14	5.5	4.9	-	0.05

BQL = The lowest quantitation limit of all analyses for the particular parameter: Below Quantitation Limit

¹mg/L = milligrams per liter, µg/L = micrograms per liter, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

²Quant Limit = Quantitation Limit : lowest level of measurement, N/A = not applicable

- Not sampled

* Analysis pending



Water Quality Laboratory

Metal Analyses

Period of 01/01/2020 TO 12/31/2020

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/10/2020

Parameter	Units ¹	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Limit ²
Aluminum	µg/L	75.5	-	-	108	-	-	192	-	-	154	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	38.8	-	-	37.7	-	-	47.3	-	-	46.9	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	36.9	-	-	32.1	-	-	36.6	-	-	42.0	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	45.7	BQL	BQL	65.6	BQL	BQL	BQL	BQL	BQL	77.7	-	25.0
Iron	µg/L	138	7810	158	200	1490	710	333	469	681	246	449	-	25.0
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	8.2	-	-	7.9	-	-	9.8	-	-	14.0	-	-	1.0
Manganese	µg/L	BQL	337	BQL	BQL	82.8	60.5	33.3	49.0	39.8	BQL	74.7	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	2.1	-	-	1.9	-	-	2.5	-	-	2.9	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	1.9	-	-	1.1	-	-	3.9	-	-	1.1	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	10.0	17.9	8.0	7.7	9.3	5.7	9.5	11.8	6.9	12.0	16.2	-	1.0
Thallium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

BQL = The lowest quantitation limit of all analyses for the particular parameter: Below Quantitation Limit

¹mg/L = milligrams per liter, µg/L = micrograms per liter

²Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

* Analysis pending