



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2017 TO 12/31/2017

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/12/2017

Parameter	Units ¹	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Quant Limit ²
Aggressive Index Number	Units	11	12	12	11	11	-	12	12	13	12	12	-	N/A
Alkalinity, Bicarbonate	mg/L	60	74	74	72	63	-	108	89	129	129	72	-	0
Alkalinity, Carbonate	mg/L	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
Alkalinity, Phenolphthalein	mg/L	0	0	0	0	0	-	0	0	0	0	0	-	0
Alkalinity, Total	mg/L	60	74	74	72	63	-	108	89	129	129	72	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.02	0.06	0.02	0.03	0.02	0.02	0.03	0.04	0.04	0.05	0.03	0.05	0.01
Carbon Dioxide	mg/L	2	1	1	2	5	-	2	3	1	3	1	-	N/A
Chloride	mg/L	17.1	14.8	15.2	24.0	13.5	-	16.3	12.3	23.9	28.9	11.6	-	5.0
Color	Units	35	7.5	7.5	15	15	-	15	20	10	10	30	-	0
Dissolved Oxygen	mg/L	11.4	11.7	10.9	8.5	8.9	-	7.0	7.0	9.0	7.9	10.6	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	55	78	77	66	58	-	98	87	113	117	72	-	10
Hardness, Total	mg/L	81	108	101	93	80	-	137	118	173	169	100	-	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	-	0.20
N, Nitrate (Nitrate as N)	mg/L	1.09	1.08	1.03	0.64	0.85	-	1.43	1.40	0.99	0.88	1.19	-	0.20
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	Units	7.8	8.0	8.2	7.8	7.4	-	8.0	7.8	8.6	8.0	8.0	-	N/A
Phosphate as Phosphorous	mg/L	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	-	0.31
Solids, Total	mg/L	236	176	176	192	150	-	218	194	275	259	191	-	1
Solids, Total Dissolved	mg/L	-	189	166	131	119	-	223	216	280	268	168	-	1
Solids, Total Suspended	mg/L	78	2	2	23	20	-	7	9	15	10	18	-	1
Specific Conductivity	µmhos/cm	223	292	269	266	206	-	336	297	408	440	258	-	0
Sulfate	mg/L	19.2	39.7	30.6	19.7	15.2	-	30.0	27.1	41.7	42.5	29.0	-	5.0
Temperature	°C	7.7	11.1	10.1	16.4	16.7	-	27.7	24.7	22.7	22.9	13.1	-	N/A
Threshold Odor Number	Units	16	8	12	13	7	-	9	6	7	6	9	-	0
Total Organic Carbon	mg/L	4.8	1.8	2.7	2.5	2.8	-	3.4	3.9	2.4	2.3	4.2	-	0.5
Turbidity	NTU	75	2.7	3.5	27	18	-	6.0	9.1	8.0	3.4	23	-	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 01/01/2017 TO 12/31/2017

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Parameter	Units ¹	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Quant Limit ²
Aluminum	µg/L	1950	-	-	623	-	-	133	-	-	242	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	56.7	-	-	42.3	-	-	45.3	-	-	56.3	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	24.7	-	-	27.3	-	-	39.0	-	-	48.9	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	µg/L	3600	113	152	1040	887	-	244	460	546	451	1020	-	25.0
Lead	µg/L	3.0	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	6.0	-	-	7.4	-	-	10.8	-	-	14.6	-	-	1.0
Manganese	µg/L	190	BQL	BQL	82.8	60.5	-	BQL	25.7	55.1	52.1	55.5	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	3.1	-	-	2.1	-	-	3.2	-	-	4.1	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	9.4	-	-	3.6	-	-	3.5	-	-	1.9	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	10.1	10.4	10.3	14.2	8.4	-	12.1	8.6	17.4	19.4	9.0	-	1.0
Thallium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	µg/L	25.0	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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

²Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

* Analysis pending