Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2016 TO 12/31/2016

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/19/2016

Parameter	Units[1]	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Quant Limit[2]
Aggressive Index Number	Units	12	10	11	12	12	11	12	13	13	12	13	-	N/A
Alkalinity, Bicarbonate	mg/L	78	35	80	82	66	74	110	117	98	116	177	-	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	78	35	80	82	66	74	110	117	98	116	177	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.03	0.02	0.03	0.04	0.02	0.02	0.05	0.05	0.06	0.03	0.04	0.06	0.01
Carbon Dioxide	mg/L	2	3	4	1	2	4	1	1	0	7	1	-	N/A
Chloride	mg/L	12.4	32.4	34.6	44.5	8.2	9.5	20.1	24.2	32.5	21.5	27.3	-	5.0
Color	Units	10	60	7.5	10	10	25	5.0	10	5.0	15	7.5	-	0
Dissolved Oxygen	mg/L	13.9	-	9.1	10.8	9.4	7.7	7.7	6.7	8.5	9.4	9.6	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	75	33	72	73	63	69	103	111	91	112	119	-	10
Hardness, Total	mg/L	98	53	102	106	82	93	147	155	145	150	161	-	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	1.55	0.85	1.28	0.56	0.78	1.02	0.68	0.86	0.50	1.06	0.63	-	0.20
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	Units	8.0	7.4	7.6	8.2	7.9	7.6	8.3	8.6	8.6	7.5	8.5	-	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	181	447	199	196	154	157	225	250	242	230	258	-	1
Solids, Total Dissolved	mg/L	184	180	202	198	140	144	233	248	240	233	286	-	1
Solids, Total Suspended	mg/L	23	302	10	4	29	30	4	4	2	5	BQL	-	1
Specific Conductivity	µmhos/cm	243	205	309	349	196	230	383	389	397	403	431	-	0
Sulfate	mg/L	22.8	8.8	18.5	20.1	19.3	20.6	41.5	42.7	48.3	41.7	49.8	-	5.0
Temperature	℃	4.0	5.8	12.3	15.0	16.1	23.2	29.0	28.1	28.2	17.6	16.5	-	N/A
Threshold Odor Number	Units	6	9	9	6	3	3	6	-	7	5	8	-	0
Total Organic Carbon	mg/L	2.7	4.4	1.9	2.2	2.3	3.6	2.2	2.8	2.5	2.8	2.7	-	0.5
Turbidity	NTU	24	220	9.3	4.2	20	33	3.0	3.5	1.8	3.1	1.4	-	0.05

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

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

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

- Not sampled

* Analysis pending

Fairfax Water

Water Quality Laboratory

Metal Analyses

Period of 01/01/2016 TO 12/31/2016

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/19/2016

Parameter	Units[1]	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Quant Limit[2]
Aluminum	µg/L	1270	-	-	152	-	-	76.2	-	-	123	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	42.8	-	-	41.9	-	-	49.1	-	-	46.0	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	29.0	-	-	28.4	-	-	43.5	-	-	45.2	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	35.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	µg/L	1180	18600	587	359	932	1390	133	176	78.3	264	62.9	-	25.0
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	6.8	-	-	8.9	-	-	12.1	-	-	10.8	-	-	1.0
Manganese	µg/L	47.7	530	59.9	43.6	65.4	68.2	BQL	BQL	BQL	BQL	BQL	-	25.0
Mercury	µg/L	BQL	-	-	-	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	2.3	-	-	2.2	-	-	2.9	-	-	3.5	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	5.7	-	-	1.8	-	-	2.6	-	-	2.3	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	7.8	18.4	17.6	21.9	5.4	6.3	13.9	16.8	24.0	15.3	19.9	-	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

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

[2]Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

* Analysis pending