Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2021 TO 12/31/2021

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/22/2021

Parameter	Units[1]	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Limit[2]
Aggressive Index Number	Units	11	12	12	12	12	12	12	12	12	12	12	-	N/A
Alkalinity, Bicarbonate	mg/L	72	122	88	90	81	110	119	124	92	134	100	-	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	72	122	88	90	81	110	119	124	92	134	100	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.02	0.03	0.02	0.01	0.02	0.02	0.03	0.04	BQL	0.02	0.02	0.04	0.01
Carbon Dioxide	mg/L	2	1	2	2	3	2	4	1	2	1	2	-	N/A
Chloride	mg/L	19.7	15.6	12.7	13.2	11.3	16.4	18.8	27.7	11.0	18.5	13.8	-	5.0
Color	Units	10	2.5	2.5	7.5	7.5	7.5	7.5	5.0	20	2.5	10	-	0
Dissolved Oxygen	mg/L	12.2	13.3	11.7	9.8	9.9	6.9	6.8	7.9	7.6	9.0	10.9	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	63	114	85	82	80	105	101	103	91	110	90	-	10
Hardness, Total	mg/L	86	149	113	114	108	151	141	156	120	158	124	-	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	1.43	1.69	1.63	1.00	0.89	0.90	0.67	0.53	1.82	1.49	0.97	-	0.20
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	Units	7.8	8.3	7.9	8.0	7.8	8.0	7.8	8.3	7.9	8.3	8.1	-	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	156	213	152	217	209	273	237	255	296	265	217	-	1
Solids, Total Dissolved	mg/L	170	198	168	132	142	174	174	226	128	204	162	-	1
Solids, Total Suspended	mg/L	12	BQL	9	50	59	46	13	13	157	22	19	-	1
Specific Conductivity	µmhos/cm	249	360	269	266	259	338	357	406	265	370	303	-	0
Sulfate	mg/L	14.1	32.5	23.4	19.8	25.8	30.2	32.3	39.0	19.6	29.5	36.4	-	5.0
Temperature	°C	5.2	4.0	8.8	14.8	16.5	25.7	25.3	28.1	23.4	21.1	13.6	-	N/A
Threshold Odor Number	Units	8	12	8	8	8	12	6	12	12	12	12	-	0
Total Organic Carbon	mg/L	2.3	1.2	1.4	2.1	2.3	2.4	1.9	2.3	4.2	1.9	2.8	-	0.5
Turbidity	NTU	12	1.3	11	37	40	27	9.5	11	100	17	6.1	-	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

Report No: 12222021120050

Fairfax Water

Water Quality Laboratory

Metal Analyses

Period of 01/01/2021 TO 12/31/2021

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/22/2021

Parameter	Units[1]	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Limit[2]
Aluminum	µg/L	630	-	-	1060	-	-	296	-	-	601	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	35.3	-	-	46.6	-	-	51.0	-	-	47.6	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	26.7	-	-	32.4	-	-	41.6	-	-	45.9	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	27.7	BQL	-	25.0
Iron	µg/L	768	78.6	501	1590	2080	1610	490	364	4880	1050	356	-	25.0
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	7.0	-	-	7.9	-	-	11.8	-	-	12.6	-	-	1.0
Manganese	µg/L	34.8	BQL	30.5	106	143	130	43.1	52.4	320	61.5	BQL	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	2.3	-	-	2.1	-	-	2.8	-	-	3.0	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	5.5	-	-	3.2	-	-	3.9	-	-	2.0	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	11.5	9.8	7.7	7.7	7.7	10.6	11.7	16.3	8.0	11.7	8.8	10.5	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