Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2023 TO 12/31/2023

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 1/10/2025

Parameter	Units[1]	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Limit[2]
Aggressive Index Number	Units	12	12	11	12	11	12	12	13	13	13	12	-	N/A
Alkalinity, Bicarbonate	mg/L	82	91	68	100	71	101	102	104	118	102	129	-	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	82	91	68	100	71	101	102	104	118	102	129	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.02	0.02	0.02	0.01	0.02	0.03	0.02	0.03	0.05	0.03	0.06	0.02	0.01
Carbon Dioxide	mg/L	3	1	2	1	4	1	3	1	1	0	4	-	N/A
Chloride	mg/L	24.0	18.3	10.2	12.7	17.6	16.0	16.0	31.4	31.7	22.8	36.0	-	5.0
Color	Units	5.0	2.5	10	7.5	7.5	7.5	5.0	5.0	7.5	7.5	5.0	-	0
Dissolved Oxygen	mg/L	10.8	12.5	10.7	10.9	8.1	8.4	6.3	8.5	9.0	11.8	9.4	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	78	91	70	94	64	94	95	97	135	102	120	-	10
Hardness, Total	mg/L	110	130	101	124	89	136	131	140	204	148	181	-	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	1.47	1.45	1.29	0.71	0.66	0.34	0.33	0.39	BQL	0.33	0.23	-	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	8.5	7.8	8.3	7.6	8.2	7.8	8.6	8.4	8.8	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	176	213	177	350	131	364	205	261	520	230	259	-	1
Solids, Total Dissolved	mg/L	156	152	124	150	138	186	152	198	218	208	282	-	1
Solids, Total Suspended	mg/L	9	23	38	154	7	86	23	21	246	20	2	-	1
Specific Conductivity	µmhos/cm	293	304	227	284	219	321	312	374	405	349	454	-	0
Sulfate	mg/L	18.8	27.9	23.4	24.4	17.2	34.6	31.7	34.1	50.2	39.7	45.6	-	5.0
Temperature	°C	9.2	6.4	9.1	16.6	17.2	22.7	27.2	26.4	26.2	19.2	13.7	-	N/A
Threshold Odor Number	Units	12	13	18	15	10	8	12	12	14	10	12	-	0
Total Organic Carbon	mg/L	2.3	1.6	2.4	2.6	2.3	2.9	2.5	2.7	3.2	3.4	2.3	-	0.5
Turbidity	NTU	7.8	12	30	120	6.8	120	14	13	180	17	2.0	-	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 01/01/2023 TO 12/31/2023

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 1/10/2025

Parameter	Units[1]	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Limit[2]
Aluminum	µg/L	288	-	-	3270	-	-	1520	-	-	383	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	34.2	-	-	80.4	-	-	56.4	-	-	41.7	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	30.8	-	-	38.8	-	-	37.6	-	-	38.1	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	BQL	BQL	BQL	40.2	31.8	19.1	BQL	BQL	BQL	33.2	-	25.0
Iron	µg/L	552	1350	1610	4680	463	7430	1810	832	7340	653	160	-	25.0
Lead	µg/L	BQL	-	-	5.0	-	-	1.6	-	-	BQL	-	-	2.0
Magnesium	mg/L	8.1	-	-	9.7	-	-	10.2	-	-	11.6	-	-	1.0
Manganese	µg/L	40.7	87.5	102	465	66.1	697	145	64.3	1300	118	36.9	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	6.2	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	2.3	-	-	2.4	-	-	2.7	-	-	3.5	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	5.0	-	-	6.1	-	-	5.8	-	-	1.6	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	12.8	10.5	7.1	8.4	10.6	10.7	10.5	18.7	19.6	15.5	22.6	10.5	1.0
Thallium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	µg/L	BQL	-	-	26.9	-	-	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