



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2024 TO 12/31/2024

Occoquan Reservoir - Griffith Water Treatment Plant Source Water

Date Report Generated: 1/10/2025

Parameter	Units ¹	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Limit ²
Aggressive Index Number	Units	11	10	11	10	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate	mg/L	49	28	45	44	51	63	73	80	82	77	78	-	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	49	28	45	44	51	63	73	80	82	77	78	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.02	0.01	0.02	0.02	0.02	0.03	0.04	0.06	0.05	0.05	0.05	0.05	0.01
Carbon Dioxide	mg/L	4	6	5	7	6	10	12	13	13	8	8	-	N/A
Chloride	mg/L	25.4	48.0	45.5	29.7	29.9	36.8	40.8	51.0	50.7	42.4	42.3	-	5.0
Color	Units	35	55	40	40	30	25	15	10	7.5	10	10	-	0
Dissolved Oxygen	mg/L	10.5	10.5	9.7	8.7	6.8	4.5	4.6	5.9	4.1	4.5	5.7	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	0.2	0.2	0.4	0.4	0.4	0.4	-	0.2
Hardness, Calcium	mg/L	55	35	52	46	53	67	80	101	104	98	98	-	10
Hardness, Total	mg/L	78	50	74	65	74	93	108	133	138	128	129	-	10
Methylene Blue Activated Substances	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	0.20
N, Nitrate (Nitrate as N)	mg/L	1.22	0.55	0.75	0.57	0.48	0.66	0.60	1.14	1.37	1.97	1.48	-	0.20
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	0.03	0.02	0.02	0.04	0.08	0.03	0.03	-	0.01
pH	Units	7.4	7.0	7.3	7.1	7.2	7.1	7.1	7.1	7.1	7.3	7.3	-	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	158	160	191	147	156	201	217	-	-	262	-	-	1
Solids, Total Dissolved	mg/L	146	164	182	134	158	202	194	-	-	230	-	-	1
Solids, Total Suspended	mg/L	8	7	6	3	2	2	3	-	-	2	-	-	1
Specific Conductivity	µmhos/cm	245	241	285	229	248	309	356	442	467	423	429	-	0
Sulfate	mg/L	23.9	8.8	17.2	15.8	19.0	25.2	29.0	47.9	51.7	51.0	50.6	-	5.0
Temperature	°C	7.2	6.7	10.7	12.5	17.7	20.8	24.2	25.5	23.7	20.2	17.0	-	N/A
Threshold Odor Number	Units	7	18	12	10	29	20	33	-	-	-	-	-	0
Total Organic Carbon	mg/L	5.8	6.3	5.0	5.1	4.9	5.0	4.8	4.5	4.5	4.3	5.3	-	0.5
Turbidity	NTU	17	26	12	8.0	1.9	2.9	3.5	2.2	1.8	2.1	3.9	-	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 01/01/2024 TO 12/31/2024

Occoquan Reservoir - Griffith Water Treatment Plant Source Water

Date Report Generated: 1/10/2025

Parameter	Units ¹	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Limit ²
Aluminum	µg/L	935	-	-	358	-	-	46.6	-	-	BQL	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	30.1	-	-	28.3	-	-	37.5	-	-	33.6	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	21.1	-	-	17.6	-	-	29.2	-	-	39.2	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	BQL	BQL	3.6	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	µg/L	924	1300	669	573	149	141	137	35.5	37.2	71.2	159	-	25.0
Lead	µg/L	BQL	-	-	0.41	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	5.7	-	-	5.1	-	-	6.8	-	-	8.0	-	-	1.0
Manganese	µg/L	83.0	54.4	58.5	58.6	76.1	250	214	134	186	145	243	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	3.8	-	-	2.5	-	-	4.8	-	-	7.7	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	5.7	-	-	3.9	-	-	3.3	-	-	3.7	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	15.7	25.1	22.3	18.2	18.6	23.2	25.4	32.4	35.8	30.0	30.2	31.5	1.0
Thallium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	µg/L	BQL	-	-	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