Fairfax Water

Water Quality Laboratory

Inorganics Analyses

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

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 1/10/2025

Parameter	MCL[1]	Units[2]	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Quant Limit[3]
Aggressive Index Number		Units	11	12	11	11	11	11	11	12	11	11	12	-	N/A
Alkalinity, Bicarbonate		mg/L	90	84	65	82	70	93	92	94	96	92	111	-	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	90	84	65	82	70	93	92	94	96	92	111	-	0
Bromide		mg/L	BQL	0.01	BQL	BQL	BQL	0.01	BQL	0.01	0.03	0.02	0.03	-	0.01
Carbon Dioxide		mg/L	7	3	5	7	6	9	7	5	8	6	9	-	N/A
Chloride	250 S	mg/L	22.7	23.6	23.6	18.4	25.0	23.9	26.4	35.8	38.5	29.5	31.9	-	5.0
Chlorine, Free		mg/L	0.1	0.1	0.1	2.8	2.6	2.8	0.3	0.3	0.3	0.1	0.2	-	0.0
Chlorine, Total		mg/L	3.0	3.0	2.9	2.9	2.8	3.1	3.1	2.7	2.3	3.3	3.6	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	13.7	15.9	13.3	15.0	12.5	11.1	12.8	14.4	12.7	14.3	13.4	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.2
Hardness, Calcium		mg/L	96	92	68	87	68	92	90	94	99	106	127	-	10
Hardness, Total		mg/L	124	125	91	120	92	134	125	138	150	151	182	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.82	0.80	0.80	BQL	BQL	BQL	0.88	0.72	0.82	0.82	0.85	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.88	1.54	1.14	0.77	0.85	0.42	0.45	0.26	0.24	0.37	0.47	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.02	0.02	0.02	BQL	BQL	BQL	BQL	BQL	BQL	0.01	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.4	7.8	7.4	7.4	7.4	7.3	7.4	7.6	7.4	7.5	7.4	-	N/A
Phosphate as Phosphorous		mg/L	0.49	0.40	0.45	0.45	0.43	0.39	0.45	0.41	0.43	0.39	0.35	-	0.10
Orthophosphate as PO_4		mg/L	1.49	1.23	1.37	1.36	1.32	1.18	1.37	1.26	1.32	1.20	1.08	-	0.31
Solids, Total		mg/L	190	196	162	183	139	190	186	235	285	226	263	-	1
Solids, Total Dissolved	500 S	mg/L	174	158	144	160	142	202	184	208	232	228	286	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	333	330	261	300	265	350	336	396	435	389	457	-	0
Sulfate	250 S	mg/L	31.5	36.2	20.0	33.0	17.0	42.4	36.3	44.4	56.0	52.6	67.9	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	2	2	-	1
Temperature		°C	10.1	8.5	11.5	16.0	17.5	22.6	26.0	26.8	27.1	20.5	16.0	-	N/A
Threshold Odor Number	3 S	Units	1	6	4	8	10	8	6	6	1	6	1	-	0
Total Organic Carbon		mg/L	1.3	1.1	1.7	1.3	1.4	1.4	1.5	1.8	1.6	2.4	1.3	-	0.5
Turbidity	≤ 5 P	NTU	0.10	0.10	0.10	0.20	0.10	0.15	0.15	0.10	0.15	0.10	0.10	-	0.05

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

[1]Environmental Protection Agency/Virginia Department of Health established levels for drinking water at points of entry to the water distribution system

P = Primary - enforceable, S = Secondary - non-enforceable, AL = Action Level on specific taps, MCL = Maximum Contaminant Level

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

[3]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

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Parameter	MCL[1]	Units[2]	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Quant Limit[3]
Aluminum	50 - 200 S	µg/L	BQL	-	-	38.1	-	-	88.4	-	-	44.6	-	-	25.0
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	2000 P	µg/L	28.7	-	-	38.1	-	-	43.8	-	-	36.8	-	-	25.0
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium		mg/L	37.7	-	-	35.6	-	-	35.6	-	-	37.0	-	-	1.0
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium		mg/L	7.8	-	-	8.3	-	-	9.4	-	-	10.6	-	-	1.0
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Mercury	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	2.1	-	-	1.9	-	-	2.6	-	-	3.2	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	3.0	-	-	BQL	-	-	3.9	-	-	1.3	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	12.7	13.6	12.8	11.6	13.9	14.6	15.8	22.2	24.9	18.3	20.4	-	1.0
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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