Fairfax Water

Water Quality Laboratory

Inorganics Analyses

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

Distribution Site Representing Griffith Treatment Plant

Date Report Generated: 2/16/2024

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	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	36	55	46	62	63	68	75	82	84	73	76	-	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	36	55	46	62	63	68	75	82	84	73	76	-	0
Bromide		mg/L	BQL	0.01	BQL	BQL	BQL	BQL	0.01	0.01	0.02	0.02	0.02	-	0.01
Carbon Dioxide		mg/L	2	3	5	4	6	4	5	5	4	5	4	-	N/A
Chloride	250 S	mg/L	31.0	43.7	37.5	43.2	40.8	40.3	48.1	48.2	52.2	48.2	51.5	-	5.0
Chlorine, Free		mg/L	0.3	0.1	0.0	3.2	3.3	3.3	0.2	0.3	0.2	0.3	0.2	-	0.0
Chlorine, Total		mg/L	3.0	2.9	3.2	3.4	3.5	3.4	3.4	3.5	3.1	3.4	3.2	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	14.5	16.2	15.9	13.5	11.6	12.5	14.8	11.0	13.6	8.9	12.1	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.6	0.7	0.6	0.7	0.7	0.6	0.8	0.7	0.7	0.8	0.7	0.7	0.2
Hardness, Calcium		mg/L	31	62	48	70	67	63	75	81	89	89	98	-	10
Hardness, Total		mg/L	45	86	68	96	93	86	100	107	114	115	129	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.65	0.61	0.68	BQL	BQL	BQL	0.76	0.77	0.78	0.70	0.69	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	0.70	1.50	0.89	1.04	0.85	0.69	0.92	1.00	0.98	1.95	2.22	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.01	0.01	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.5	7.5	7.3	7.5	7.3	7.5	7.5	7.5	7.6	7.5	7.6	-	N/A
Phosphate as Phosphorous		mg/L	0.48	0.44	0.48	0.49	0.47	0.44	0.48	0.44	0.49	0.43	0.44	-	0.10
Orthophosphate as PO_4		mg/L	1.48	1.34	1.46	1.51	1.43	1.33	1.46	1.35	1.48	1.31	1.33	-	0.31
Solids, Total		mg/L	110	192	162	196	176	176	210	238	274	239	271	-	1
Solids, Total Dissolved	500 S	mg/L	110	188	136	172	182	214	220	234	232	252	298	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	215	335	276	354	338	334	391	412	444	421	453	-	0
Sulfate	250 S	mg/L	13.2	30.3	20.1	33.3	30.8	28.2	37.5	37.8	43.1	45.9	55.5	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	2	2	-	1
Temperature		°C	8.1	7.5	9.8	14.6	16.0	19.8	22.9	24.0	24.7	20.6	15.9	-	N/A
Threshold Odor Number	3 S	Units	4	6	4	8	7	8	3	6	1	8	1	-	0
Total Organic Carbon		mg/L	2.2	1.9	2.1	1.8	2.2	2.4	2.1	2.0	1.9	2.6	2.3	-	0.5
Turbidity	≤ 5 P	NTU	0.10	0.05	0.05	0.05	0.05	0.10	0.10	0.05	0.05	0.10	0.05	-	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

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Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	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	BQL	-	-	30.6	-	-	33.1	-	-	31.3	-	-	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	12.2	-	-	28.4	-	-	29.1	-	-	31.3	-	-	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	3.6	-	-	7.3	-	-	7.0	-	-	6.8	-	-	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	3.7	-	-	4.5	-	-	5.7	-	-	6.9	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	3.0	-	-	2.1	-	-	2.7	-	-	3.1	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	19.3	25.5	22.8	27.3	26.0	27.6	33.7	35.2	39.1	34.6	35.8	-	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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