Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2022 TO 12/31/2022

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 1/04/2023

Parameter	MCL[1]	Units[2]	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Quant Limit[3]
Aggressive Index Number		Units	11	11	11	11	11	11	12	12	12	12	12	-	N/A
Alkalinity, Bicarbonate		mg/L	70	89	71	78	54	97	117	110	100	119	120	-	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	70	89	71	78	54	97	117	110	100	119	120	-	0
Bromide		mg/L	0.06	0.03	0.01	BQL	BQL	BQL	0.02	0.02	0.02	0.01	0.02	-	0.01
Carbon Dioxide		mg/L	6	7	5	6	5	8	7	7	6	5	8	-	N/A
Chloride	250 S	mg/L	22.5	64.7	20.5	21.7	23.3	22.7	28.4	31.6	32.5	34.2	30.5	-	5.0
Chlorine, Free		mg/L	0.1	0.4	0.2	3.0	2.7	2.5	0.2	0.1	0.1	0.1	0.2	-	0.0
Chlorine, Total		mg/L	3.4	3.4	3.3	3.0	3.0	2.8	2.9	2.4	2.8	2.2	2.9	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	16.6	16.3	16.0	13.1	13.5	12.0	10.7	11.8	12.6	14.2	13.9	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.2
Hardness, Calcium		mg/L	86	90	78	85	53	96	115	115	104	123	125	-	10
Hardness, Total		mg/L	118	128	104	116	71	129	163	163	155	166	177	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.84	0.93	0.85	BQL	BQL	BQL	0.77	0.67	0.75	0.59	0.76	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.23	1.28	1.18	0.95	0.96	0.90	1.13	0.86	0.65	0.92	0.76	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.02	0.01	0.02	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.4	7.4	7.5	7.4	7.3	7.4	7.5	7.5	7.5	7.7	7.5	-	N/A
Phosphate as Phosphorous		mg/L	0.38	0.41	0.39	0.40	0.42	0.38	0.38	0.39	0.42	0.40	0.39	-	0.10
Orthophosphate as PO_4		mg/L	1.15	1.24	1.20	1.23	1.28	1.16	1.17	1.18	1.28	1.22	1.20	-	0.31
Solids, Total		mg/L	185	254	158	169	136	194	249	273	240	261	269	-	1
Solids, Total Dissolved	500 S	mg/L	172	220	150	168	138	174	220	260	216	264	260	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	321	436	280	302	225	324	414	430	408	441	450	-	0
Sulfate	250 S	mg/L	48.3	29.1	32.4	38.3	13.0	33.0	43.7	52.0	47.0	44.7	54.7	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	2	2	-	1
Temperature		°C	7.2	5.8	11.1	12.9	16.8	24.3	25.0	27.8	26.1	20.7	17.8	-	N/A
Threshold Odor Number	3 S	Units	1	12	6	6	8	8	1	6	6	1	1	-	0
Total Organic Carbon		mg/L	1.2	1.3	1.1	1.1	2.0	1.3	1.6	1.6	1.4	1.7	1.3	-	0.5
Turbidity	≤ 5 P	NTU	0.10	0.10	0.20	0.10	0.25	0.15	0.10	0.40	0.10	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 01/01/2022 TO 12/31/2022

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 1/04/2023

Parameter	MCL[1]	Units[2]	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Quant Limit[3]
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	67.9	-	-	63.6	-	-	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	27.2	-	-	33.0	-	-	55.9	-	-	42.6	-	-	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	34.1	-	-	33.7	-	-	46.5	-	-	49.2	-	-	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	8.4	-	-	7.7	-	-	11.4	-	-	11.1	-	-	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	1.9	-	-	2.2	-	-	3.0	-	-	3.3	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	2.1	-	-	1.1	-	-	3.5	-	-	2.2	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	13.2	30.6	11.6	12.2	14.2	12.5	16.6	18.7	18.9	20.8	17.6	-	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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