Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2021 TO 12/31/2021

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 12/22/2021

Parameter	MCL[1]	Units[2]	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Quant Limit[3]
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	12	11	-	N/A
Alkalinity, Bicarbonate		mg/L	72	111	72	80	71	99	109	107	84	121	116	-	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	72	111	72	80	71	99	109	107	84	121	116	-	0
Bromide		mg/L	0.01	0.02	0.01	BQL	BQL	BQL	0.02	0.02	BQL	0.01	0.02	-	0.01
Carbon Dioxide		mg/L	6	14	6	8	7	8	9	9	7	10	9	-	N/A
Chloride	250 S	mg/L	27.0	22.0	24.7	20.4	17.5	23.6	26.7	33.1	28.3	24.8	23.7	-	5.0
Chlorine, Free		mg/L	0.0	0.2	0.1	3.2	3.1	3.4	0.1	0.3	0.3	0.2	0.1	-	0.0
Chlorine, Total		mg/L	3.4	3.6	3.7	3.4	3.2	3.6	3.3	3.3	3.8	3.7	3.7	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	15.6	14.4	14.8	12.8	13.5	11.6	9.9	11.1	11.5	14.4	14.8	-	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	0.7	0.6	0.2
Hardness, Calcium		mg/L	67	113	75	80	76	102	104	95	77	111	108	-	10
Hardness, Total		mg/L	92	151	99	109	105	139	144	144	104	157	151	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.87	0.91	0.87	BQL	BQL	BQL	0.93	0.79	0.86	0.86	0.79	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.50	1.78	1.53	1.04	0.92	0.89	0.74	0.53	1.79	1.36	1.09	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.01	0.02	0.01	BQL	BQL	BQL	BQL	BQL	0.01	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.4	7.2	7.4	7.3	7.3	7.4	7.4	7.4	7.4	7.4	7.4	-	N/A
Phosphate as Phosphorous		mg/L	0.44	0.40	0.41	0.44	0.44	0.39	0.42	0.39	-	0.40	0.42	-	0.10
Orthophosphate as PO_4		mg/L	1.34	1.21	1.27	1.35	1.34	1.18	1.29	1.19	-	1.23	1.27	-	0.31
Solids, Total		mg/L	164	223	160	192	170	222	243	255	194	236	249	-	1
Solids, Total Dissolved	500 S	mg/L	164	242	150	136	100	186	242	198	158	236	204	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	280	390	289	290	273	363	388	411	305	403	398	-	0
Sulfate	250 S	mg/L	16.9	44.1	26.6	28.4	31.1	37.8	41.3	44.4	20.1	40.4	42.7	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	2	2	-	1
Temperature		°C	6.9	4.9	10.0	14.2	17.3	26.2	27.3	27.8	24.9	21.4	16.2	-	N/A
Threshold Odor Number	3 S	Units	8	6	8	12	12	8	6	8	12	1	1	-	0
Total Organic Carbon		mg/L	1.3	0.8	0.9	1.3	1.3	1.4	1.3	1.5	2.4	1.2	1.5	-	0.5
Turbidity	≤ 5 P	NTU	0.10	0.10	0.05	0.10	0.10	0.15	0.15	0.15	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 01/01/2021 TO 12/31/2021

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 12/22/2021

Parameter	MCL[1]	Units[2]	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Quant Limit[3]
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	103	-	-	49.8	-	-	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	-	-	35.2	-	-	48.0	-	-	42.0	-	-	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	27.7	-	-	33.0	-	-	42.5	-	-	46.0	-	-	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	6.9	-	-	7.7	-	-	11.6	-	-	12.0	-	-	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	-	-	1.7	-	-	2.9	-	-	2.8	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	4.3	-	-	2.0	-	-	3.2	-	-	1.3	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	15.2	13.7	13.5	11.8	10.5	13.9	16.1	19.5	15.3	15.6	15.8	-	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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