Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2017 TO 12/31/2017

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 12/12/2017

Parameter	MCL[1]	Units[2]	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Quant Limit[3]
Aggressive Index Number		Units	11	11	11	11	11	-	11	12	12	12	11	-	N/A
Alkalinity, Bicarbonate		mg/L	62	62	63	65	60	-	96	86	117	124	92	-	0
Alkalinity, Carbonate		mg/L	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
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	-	0	0	0	0	0	-	0
Alkalinity, Total		mg/L	62	62	63	65	60	-	96	86	117	124	92	-	0
Bromide		mg/L	0.02	0.03	0.03	0.01	BQL	-	0.01	0.04	0.02	0.03	0.02	-	0.01
Carbon Dioxide		mg/L	5	2	5	3	5	-	15	3	3	6	7	-	N/A
Chloride	250 S	mg/L	31.9	21.1	22.1	30.0	21.2	-	25.4	21.3	29.8	33.4	28.6	-	5.0
Chlorine, Free		mg/L	0.1	0.1	0.1	3.1	2.6	-	0.3	0.3	0.2	0.2	0.3	-	0.0
Chlorine, Total		mg/L	3.2	3.3	2.9	3.4	2.7	-	3.1	1.8	2.0	2.4	3.4	-	0.0
Color	15 S	Units	0	0	0	0	0	-	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	14.0	15.1	11.4	11.6	13.8	-	13.3	13.8	13.7	12.5	14.9	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.2
Hardness, Calcium		mg/L	66	82	77	64	60	-	102	109	119	122	94	-	10
Hardness, Total		mg/L	90	101	99	90	79	-	140	143	171	180	133	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	-	BQL	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.85	0.82	0.78	BQL	BQL	-	0.95	0.56	0.61	0.68	0.52	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.05	1.07	0.95	0.79	0.96	-	1.59	1.27	1.03	0.71	0.86	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	0.01	-	0.01
pH	6.5 - 8.5 S	Units	7.4	7.7	7.4	7.6	7.4	-	7.1	7.8	7.9	7.6	7.4	-	N/A
Phosphate as Phosphorous		mg/L	0.41	0.41	0.37	0.43	0.44	-	0.42	0.45	0.40	0.40	0.39	-	0.10
Orthophosphate as PO_4		mg/L	1.26	1.25	1.14	1.31	1.34	-	1.29	1.36	1.23	1.21	1.20	-	0.31
Solids, Total		mg/L	163	173	185	174	129	-	240	233	271	284	222	-	1
Solids, Total Dissolved	500 S	mg/L	-	164	184	142	125	-	287	245	300	286	244	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	294	294	292	277	223	-	377	376	450	483	394	-	0
Sulfate	250 S	mg/L	23.7	41.1	37.8	20.0	15.4	-	42.0	50.9	55.8	57.2	46.4	-	5.0
Taste		Units	2	2	2	1	2	-	2	2	1	2	1	-	1
Temperature		°C	8.7	10.6	10.3	15.0	18.3	-	27.8	26.7	24.0	23.2	16.9	-	N/A
Threshold Odor Number	3 S	Units	8	6	7	7	6	-	7	8	3	5	3	-	0
Total Organic Carbon		mg/L	2.0	1.3	1.8	1.6	2.1	-	2.1	1.7	1.6	1.4	2.0	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.10	0.15	0.10	-	0.10	0.10	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 01/01/2017 TO 12/31/2017

Distribution Site Representing Corbalis Treatment Plant

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Parameter	MCL[1]	Units[2]	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Quant Limit[3]
Aluminum	50 - 200 S	µg/L	BQL	-	-	25.7	-	-	64.0	-	-	81.5	-	-	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	27.5	-	-	31.9	-	-	44.1	-	-	53.3	-	-	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	26.2	-	-	26.4	-	-	40.7	-	-	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	-	25.0
Iron	300 S	µg/L	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	6.5	-	-	6.9	-	-	10.4	-	-	15.2	-	-	1.0
Manganese	50 S	µg/L	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	2.6	-	-	2.0	-	-	3.5	-	-	3.8	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	2.8	-	-	3.2	-	-	3.2	-	-	1.1	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	17.7	12.6	14.1	17.9	11.5	-	17.0	13.2	21.1	23.0	18.4	-	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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