Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2009 TO 12/31/2009
Distribution Site Representing Corbalis Treatment Plant

Parameter	MCL[1]	Units[2]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit	# of Tests
Aggressive Index Number		Units	12	--	12	11	--	11	11	11	12	11	11	11	11	12	11	-	10
Alkalinity, Bicarbonate		mg/L	85	55	95	57	--	68	92	85	97	97	89	85	82	97	55	-	11
Alkalinity, Carbonate		mg/L	0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	-	11
Alkalinity, Hydroxyl		mg/L	0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	-	11
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	-	11
Alkalinity, Total		mg/L	85	55	95	57	--	68	92	85	97	97	89	85	82	97	55	-	11
Bromide		mg/L	0.02	BQL	0.03	0.02	--	BQL	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	BQL	0.01	11
Carbon Dioxide		mg/L	3	6	6	4	--	3	18	11	6	10	9	17	8	18	3	-	11
Chloride	250.0 S	mg/L	25.7	25.0	26.0	48.9	--	24.7	25.5	27.2	33.8	36.8	24.1	21.2	29.0	48.9	21.2	5.0	11
Chlorine, Free		mg/L	0.1	0.1	0.1	3.3	--	2.5	0.4	0.4	0.2	0.0	0.0	0.1	0.7	3.3	0.0	0.0	11
Chlorine, Total		mg/L	3.1	3.4	3.3	3.5	--	2.7	3.2	3.0	3.1	2.8	3.1	3.1	3.1	3.5	2.7	0.0	11
Color	15 S	Units	1	0	0	2	--	2	1	1	1	0	1	1	1	2	0	0	11
Dissolved Oxygen		mg/L	15.0	17.4	15.7	16.9	--	11.2	13.4	14.3	13.8	14.5	12.7	--	14.5	17.4	11.2	0.0	10
Fluoride	4.0/2.0 P/S	mg/L	1.0	0.9	0.8	0.8	1.0	1.1	1.0	1.0	0.9	0.9	0.8	0.9	0.9	1.1	0.8	0.2	12
Hardness, Calcium		mg/L	84	76	108	56	--	52	94	90	108	110	120	95	90	120	52	-	11
Hardness, Total		mg/L	124	116	159	106	--	91	146	151	166	158	150	128	136	166	91	-	11
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	0.76	0.68	0.76	BQL	--	BQL	0.68	0.62	0.69	0.74	0.94	0.80	0.61	0.94	BQL	0.20	11
N, Nitrate (Nitrate as N)	10 P	mg/L	1.2	1.0	0.8	0.7	--	1.0	0.8	0.7	0.9	1.4	1.4	1.3	1.0	1.4	0.7	0.2	11
N, Nitrite (Nitrite as N)	1 P	mg/L	--	BQL	--	BQL	--	BQL	BQL	--	BQL	BQL	0.01	0.01	BQL	0.01	BQL	0.01	8
pH	6.5-8.5 S	Units	7.7	7.3	7.5	7.5	--	7.7	7.0	7.2	7.5	7.3	7.3	7.0	7.4	7.7	7.0	-	11
Phosphate as Phosphorous		mg/L	0.39	0.42	0.41	--	--	0.35	--	0.27	0.34	0.34	0.34	0.34	0.36	0.42	0.27	0.10	9
Solids, Total		mg/L	202	195	260	178	--	172	231	233	270	265	220	217	222	270	172	1	11
Solids, Total Dissolved	500 S	mg/L	188	182	233	155	--	150	221	229	255	250	245	202	210	255	150	1	11
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1	11
Specific Conductivity		µmhos/cm	318	311	391	322	--	246	375	371	437	439	374	338	357	439	246	0	11
Sulfate	250.0 S	mg/L	29.5	49.2	56.6	16.7	--	16.6	51.6	60.8	65.8	53.6	60.6	48.2	46.3	65.8	16.6	10.0	11
Taste		Units	2	2	2	4	--	2	2	2	2	1	1	2	2	4	1	1	11
Temperature		°C	5.0	6.8	8.9	12.4	--	23.3	26.5	28.2	23.6	14.0	14.5	8.5	15.6	28.2	5.0	-	11
Threshold Odor Number	3 S	Units	3	4	3	7	--	5	4	7	7	7	5	7	5	7	3	0	11
Total Organic Carbon		mg/L	1.7	1.6	1.9	2.2	--	2.2	1.6	1.8	1.9	2.6	2.3	1.8	2.0	2.6	1.6	0.5	11
Turbidity	≤ 5 P	NTU	0.10	0.15	0.30	0.25	--	0.10	0.10	0.10	0.05	0.10	0.10	0.05	0.13	0.30	0.05	0.00	11

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
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

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WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2009 TO 12/31/2009
Distribution Site Representing Corbalis Treatment Plant

Parameter	MCL[1]	Units[2]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit	# of Tests
Aluminum	50-200 S	µg/L	25.6	--	--	BQL	--	--	53.8	--	--	35.3	--	--	28.7	53.8	BQL	25.0	4
Antimony	6 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Arsenic	10 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Barium	2000 P	µg/L	31.9	--	--	29.8	--	--	54.9	--	--	33.4	--	--	37.5	54.9	29.8	25.0	4
Beryllium	4 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Cadmium	5 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Calcium		mg/L	33.9	--	--	22.7	--	--	38.5	--	--	42.3	--	--	34.4	42.3	22.7	1.0	4
Chromium	100 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	25.0	11
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	25.0	11
Lead	15 AL	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	8.7	--	--	6.6	--	--	12.0	--	--	10.7	--	--	9.5	12.0	6.6	1.0	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	25.0	11
Mercury	2 P	µg/L	BQL	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.50	2
Nickel	100 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Potassium		mg/L	2.3	--	--	2.3	--	--	2.7	--	--	4.2	--	--	2.9	4.2	2.3	1.0	4
Selenium	50 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon		mg/L	3.0	--	--	3.6	--	--	1.5	--	--	2.0	--	--	2.5	3.6	1.5	1.0	4
Silver	100 S	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium		mg/L	16.0	17.9	21.5	29.9	--	19.1	21.4	22.8	27.4	25.2	21.1	17.9	21.8	29.9	16.0	1.0	11
Thallium	2 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Zinc	5000 S	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	25.0	4

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