Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2006 TO 12/31/2006
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	11	11	11	--	11	11	11	11	11	11	11	--	11	11	11	-	10
Alkalinity, Bicarbonate		mg/L	62	55	66	--	86	103	75	112	102	90	101	--	85	112	55	-	10
Alkalinity, Carbonate		mg/L	0	0	0	--	0	0	0	0	0	0	0	--	0	0	0	-	10
Alkalinity, Hydroxyl		mg/L	0	0	0	--	0	0	0	0	0	0	0	--	0	0	0	-	10
Alkalinity, Phenolphthalein		mg/L	0	0	0	--	0	0	0	0	0	0	0	--	0	0	0	-	10
Alkalinity, Total		mg/L	62	55	66	--	86	103	75	112	102	90	101	--	85	112	55	-	10
Bromate	10 P	µg/L	BQL	--	--	--	--	--	--	--	--	--	--	--	BQL	BQL	BQL	10	1
Bromide		mg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	0.02	BQL	0.02	0.02	--	BQL	0.02	BQL	0.01	10
Carbon Dioxide		mg/L	5	3	7	--	3	10	19	11	6	7	10	--	8	19	3	-	10
Chloride	250.0 S	mg/L	25.5	34.8	34.2	--	23.7	26.6	25.7	33.4	23.6	21.8	27.8	--	27.7	34.8	21.8	5.0	10
Chlorine, Free		mg/L	0.0	0.1	0.0	--	3.7	3.1	3.2	0.4	0.3	0.2	0.2	--	1.1	3.7	0.0	0.0	10
Chlorine, Total		mg/L	3.6	3.6	3.6	--	3.9	3.3	3.6	3.9	3.7	4.0	3.7	--	3.7	4.0	3.3	0.0	10
Color	15 S	Units	0	7	3	--	3	3	3	3	0	3	0	--	3	7	0	0	10
Dissolved Oxygen		mg/L	15.9	15.0	17.0	--	13.3	12.6	12.0	13.2	13.0	13.9	14.4	--	14.0	17.0	12.0	0.0	10
Fluoride	4.0/2.0 P/S	mg/L	0.7	0.7	0.7	--	0.9	1.0	1.0	0.9	1.0	1.0	0.8	1.0	0.9	1.0	0.7	0.2	11
Hardness, Calcium		mg/L	68	60	72	--	73	89	78	98	90	76	88	--	79	98	60	-	10
Hardness, Total		mg/L	96	86	105	--	101	128	113	155	124	111	131	--	115	155	86	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	1.02	1.20	0.99	--	BQL	BQL	--	1.20	--	0.95	1.00	--	0.80	1.20	BQL	0.05	8
N, Nitrate (Nitrate as N)	10 P	mg/L	1.4	1.2	1.0	--	0.8	0.4	0.8	0.8	1.2	1.1	0.9	--	1.0	1.4	0.4	0.2	10
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	--	0.01	--	BQL	0.01	BQL	0.01	8
pH	6.5-8.5 S	Units	7.4	7.6	7.3	--	7.7	7.3	6.9	7.3	7.5	7.4	7.3	--	7.4	7.7	6.9	-	10
Phosphate as Phosphorous		mg/L	0.56	0.57	0.59	--	0.58	0.44	0.55	0.49	0.43	0.58	0.37	--	0.52	0.59	0.37	0.20	10
Solids, Fixed		mg/L	102	112	128	--	141	177	171	212	168	--	136	--	150	212	102	1	9
Solids, Total		mg/L	192	187	166	--	199	282	268	319	220	--	261	--	233	319	166	1	9
Solids, Total Dissolved	500 S	mg/L	149	153	169	--	165	194	196	246	192	152	186	--	180	246	149	1	10
Solids, Total Suspended		mg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	1	10
Solids, Volatile		mg/L	90	75	38	--	58	105	97	107	52	--	125	--	83	125	38	1	9
Specific Conductivity		µmhos/cm	264	258	254	--	276	293	--	405	314	293	303	--	296	405	254	0	9
Sulfate	250.0 S	mg/L	20.6	17.9	18.5	--	17.7	26.1	33.2	45.2	22.6	18.7	19.5	--	24.0	45.2	17.7	5.0	10
Taste		Units	2	2	2	--	2	3	3	2	2	1	3	--	2	3	1	1	10
Temperature		°C	6.8	7.5	6.9	--	17.2	26.4	27.7	27.2	22.5	16.7	14.0	--	17.3	27.7	6.8	-	10
Threshold Odor Number	3 S	Units	4	5	1	--	11	5	4	3	3	2	1	--	4	11	1	1	10
Total Organic Carbon		mg/L	1.7	1.8	1.6	--	1.8	1.9	2.0	2.3	2.4	2.1	2.4	--	2.0	2.4	1.6	0.5	10
Turbidity	≤5 P	NTU	0.45	0.15	0.55	--	0.10	0.45	0.10	0.15	0.15	0.15	0.10	--	0.24	0.55	0.10	0.00	10

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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METAL ANALYSES
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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	--	50.0	--	--	79.8	305.0	--	95.2	--	48.0	--	--	115.6	305.0	48.0	25.0	5
Antimony	6 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Arsenic	10 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Barium	2000 P	µg/L	--	31.7	--	--	34.2	37.9	--	44.4	--	30.5	--	--	35.7	44.4	30.5	25.0	5
Beryllium	4 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Cadmium	5 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Calcium		mg/L	--	22.5	--	--	29.1	35.5	--	42.9	37.1	32.4	--	--	33.3	42.9	22.5	0.5	6
Chromium	100 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	5
Copper	1300 AL	µg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	10
Iron	300 S	µg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	60	10
Lead	15 AL	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Magnesium		mg/L	--	6.1	--	--	7.9	10.2	--	12.7	8.6	7.5	--	--	8.8	12.7	6.1	0.5	6
Manganese	50 S	µg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	10
Mercury	2 P	µg/L	--	BQL	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.5	2
Nickel	100 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	5
Potassium		mg/L	--	2.2	--	--	2.1	2.9	--	3.4	--	2.7	--	--	2.7	3.4	2.1	0.5	5
Selenium	50 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	5
Silicon		mg/L	--	4	--	--	BQL	BQL	--	4	--	4	--	--	BQL	4	BQL	4	5
Silver	100 S	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	5
Sodium		mg/L	14.1	20.3	15.2	--	17.3	16.0	14.2	22.7	16.0	13.6	14.1	--	16.4	22.7	13.6	5.0	10
Thallium	2 P	µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Zinc	5000 S	µg/L	--	188	--	--	154	149	--	160	--	171	--	--	164	188	149	25	5

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