Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2010 TO 12/31/2010
Distribution Site Representing Corbalis Treatment Plant Water

Parameter	MCL[1]	Units[2]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average	Max	Min	Quant[3] Limit	# of Tests
Aggressive Index Number		Units	11	10	11	11	11	11	11	11	11	11	11	10	11	11	10	-	12
Alkalinity, Bicarbonate		mg/L	69	59	61	76	98	85	91	74	70	85	92	59	77	98	59	-	12
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Total		mg/L	69	59	61	76	98	85	91	74	70	85	92	59	77	98	59	-	12
Bromide		mg/L	BQL	0.01	0.01	BQL	0.02	0.01	0.02	0.01	0.02	0.02	0.02	BQL	0.01	0.02	BQL	0.01	12
Carbon Dioxide		mg/L	9	15	5	5	8	11	11	12	14	14	15	12	11	15	5	-	12
Chloride	250.0 S	mg/L	34.6	18.0	23.3	30.4	32.7	23.4	34.2	32.8	38.1	32.0	33.6	21.4	29.5	38.1	18.0	5.0	12
Chlorine, Free		mg/L	0.0	0.0	0.1	3.1	2.9	3.2	0.3	0.4	0.3	0.2	0.1	0.1	0.9	3.2	0.0	0.0	12
Chlorine, Total		mg/L	3.3	2.5	3.1	3.3	3.2	3.2	2.6	2.8	3.2	3.3	3.0	2.8	3.0	3.3	2.5	0.0	12
Color	15 S	Units	0	0	0	2	2	2	1	1	0	1	1	1	1	2	0	0	12
Dissolved Oxygen		mg/L	--	17.7	15.9	16.0	12.1	--	14.3	15.8	14.6	14.2	15.7	--	15.1	17.7	12.1	0.0	9
Fluoride	4.0/2.0 P/S	mg/L	0.9	0.8	1.0	0.9	1.1	0.9	1.0	1.0	1.0	1.0	0.8	0.8	0.9	1.1	0.8	0.2	12
Hardness, Calcium		mg/L	79	79	66	79	89	110	102	82	67	86	86	56	82	110	56	-	12
Hardness, Total		mg/L	107	116	108	120	135	150	152	114	132	126	136	92	124	152	92	-	12
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	0.68	0.56	0.70	BQL	BQL	BQL	0.67	0.70	0.66	0.70	--	--	0.47	0.70	BQL	0.20	10
N, Nitrate (Nitrate as N)	10 P	mg/L	1.6	1.6	1.2	0.7	1.0	0.9	0.6	1.5	BQL	0.9	0.4	1.3	1.0	1.6	BQL	0.2	12
N, Nitrite (Nitrite as N)	1 P	mg/L	0.02	0.04	0.02	BQL	BQL	BQL	BQL	BQL	BQL	0.01	BQL	0.01	0.01	0.04	BQL	0.01	12
pH	6.5-8.5 S	Units	7.2	6.9	7.4	7.5	7.4	7.2	7.2	7.1	7.0	7.1	7.1	7.0	7.2	7.5	6.9	-	12
Phosphate as Phosphorous		mg/L	0.37	0.37	0.33	0.32	0.31	0.32	0.29	0.31	0.31	0.35	0.28	0.40	0.33	0.40	0.28	0.10	12
Solids, Total		mg/L	195	160	167	174	221	238	248	226	237	220	249	161	208	249	160	1	12
Solids, Total Dissolved	500 S	mg/L	204	148	122	185	213	214	255	215	243	211	252	158	202	255	122	1	12
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1	12
Specific Conductivity		µmhos/cm	316	275	261	329	367	384	415	376	437	380	424	272	353	437	261	0	12
Sulfate	250.0 S	mg/L	27.4	33.6	21.0	27.7	38.8	61.5	71.3	41.8	69.9	42.3	44.7	28.9	42.4	71.3	21.0	5.0	12
Taste		Units	2	2	2	2	1	2	2	2	2	2	2	3	2	3	1	1	12
Temperature		°C	3.1	4.6	12.7	16.3	18.6	26.1	29.1	27.9	24.3	17.1	14.1	6.8	16.7	29.1	3.1	-	12
Threshold Odor Number	3 S	Units	3	4	1	7	9	10	4	7	5	10	8	1	6	10	1	0	12
Total Organic Carbon		mg/L	1.5	1.4	1.4	1.6	1.6	1.5	1.8	2.7	2.2	2.4	2.1	2.2	1.9	2.7	1.4	0.5	12
Turbidity	≤ 5 P	NTU	0.05	0.05	0.10	0.15	0.15	0.15	0.05	0.10	0.10	0.10	0.10	0.20	0.11	0.20	0.05	0.00	12

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

[3] Quant Limit = Quantitation Limit = Lowest level of measurement.

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Fairfax Water

WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2010 TO 12/31/2010
Distribution Site Representing Corbalis Treatment Plant Water

Parameter	MCL[1]	Units[2]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average	Max	Min	Quant[3] Limit	# of Tests
Aluminum	50-200 S	µg/L	BQL	--	--	BQL	--	--	33.1	--	--	BQL	--	--	BQL	33.1	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	26.5	--	--	38.4	--	--	48.8	--	--	34.6	--	--	37.1	48.8	26.5	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	30.0	--	--	29.0	--	--	36.4	--	--	34.9	--	--	32.6	36.4	29.0	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	BQL	25.0	12
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	25.0	12
Lead	15 AL	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	7.1	--	--	7.9	--	--	12.9	--	--	8.9	--	--	9.2	12.9	7.1	1.0	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	25.0	12
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	2.1	--	--	2.1	--	--	3.0	--	--	3.4	--	--	2.7	3.4	2.1	1.0	4
Selenium	50 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon		mg/L	4.4	--	--	2.3	--	--	3.4	--	--	2.5	--	--	3.2	4.4	2.3	1.0	4
Silver	100 S	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium		mg/L	21.8	12.5	15.6	21.3	21.2	17.1	27.3	22.3	29.5	21.3	24.7	15.6	20.9	29.5	12.5	1.0	12
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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