Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2008 TO 12/31/2008
Potomac River - Corbalis Water Treatment Plant Source

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	11	11	11	11	11	12	12	12	13	12	11	12	13	11	-	12
Alkalinity, Bicarbonate		mg/L	101	76	74	94	62	85	119	121	124	119	125	86	99	125	62	-	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	101	76	74	94	62	85	119	121	124	119	125	86	99	125	62	-	12
Bromide		mg/L	0.04	0.02	0.03	0.03	0.02	0.02	0.03	0.04	0.05	0.02	0.02	0.06	0.03	0.06	0.02	0.01	12
Carbon Dioxide		mg/L	6	2	7	12	10	14	8	3	4	0	1	4	6	14	0	-	12
Chloride		mg/L	35.9	22.0	27.8	--	11.0	15.3	19.5	23.5	24.4	24.7	25.8	32.3	23.8	35.9	11.0	5.0	11
Color		Units	--	20	25	29	53	--	22	16	16	13	16	34	24	53	13	0	10
Dissolved Oxygen		mg/L	11.7	--	10.1	7.8	9.1	7.0	5.8	7.6	5.6	--	10.7	--	8.4	11.7	5.6	0.0	9
Fluoride		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.2	12
Hardness, Calcium		mg/L	104	47	83	88	66	68	96	110	112	102	102	80	88	112	47	-	12
Hardness, Total		mg/L	135	105	108	118	82	109	147	161	170	156	172	118	132	172	82	-	12
Methylene Blue Activated Substances		mg/L	--	--	--	--	--	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	--	--	BQL	0.24	BQL	0.24	BQL	0.20	9
N, Nitrate (Nitrate as N)		mg/L	1.2	1.2	1.0	0.7	1.0	0.8	0.7	0.7	1.0	0.4	0.5	0.6	0.8	1.2	0.4	0.2	12
N, Nitrite (Nitrite as N)		mg/L	BQL	BQL	0.01	0.01	BQL	0.01	BQL	BQL	0.02	BQL	0.01	BQL	BQL	0.02	BQL	0.01	12
pH		Units	7.5	7.8	7.3	7.2	7.1	7.1	7.5	7.9	7.8	8.6	8.4	7.6	7.7	8.6	7.1	-	12
Phosphate as Phosphorous		mg/L	--	BQL	BQL	0.03	0.02	0.02	--	0.02	--	--	--	BQL	BQL	0.03	BQL	0.02	7
Solids, Total		mg/L	237	175	186	186	269	230	217	243	236	215	253	185	219	269	175	1	12
Solids, Total Dissolved		mg/L	201	157	161	160	130	175	201	249	223	206	214	184	188	249	130	1	12
Solids, Total Suspended		mg/L	23	4	8	7	49	23	--	2	2	BQL	BQL	1	11	49	BQL	1	11
Specific Conductivity		µmhos/cm	349	271	280	309	195	250	333	409	361	379	--	321	314	409	195	0	11
Sulfate		mg/L	25.7	24.6	20.6	20.4	19.9	19.6	26.6	44.2	38.4	33.0	36.0	24.1	27.8	44.2	19.6	5.0	12
Temperature		°C	8.0	5.5	10.0	14.4	14.6	21.0	28.0	22.6	22.3	13.0	12.6	6.8	14.9	28.0	5.5	-	12
Threshold Odor Number		Units	7	4	4	1	3	6	5	1	1	6	1	5	4	7	1	0	12
Total Organic Carbon		mg/L	3.3	2.7	2.8	3.2	3.0	2.8	3.2	3.1	3.1	3.1	3.2	3.5	3.1	3.5	2.7	0.5	12
Turbidity		NTU	13.00	7.30	7.40	7.80	55.00	18.00	7.80	2.90	3.90	1.40	0.95	5.80	10.94	55.00	0.95	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

Print Date: 1/6/2009 1:08 pm

Fairfax Water

WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2008 TO 12/31/2008
Potomac River - Corbalis Water Treatment Plant Source

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		µg/L	889.0	--	--	219.0	--	--	246.0	--	--	BQL	--	--	338.5	889.0	BQL	25.0	4
Antimony		µg/L	BQL	--	--	--	--	--	--	--	--	BQL	BQL	--	BQL	BQL	BQL	2.0	3
Arsenic		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Barium		µg/L	58.6	--	--	45.0	--	--	49.6	--	--	41.4	--	--	48.7	58.6	41.4	25.0	4
Beryllium		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Cadmium		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Calcium		mg/L	36.4	--	--	34.5	--	--	41.4	--	--	40.1	--	--	38.1	41.4	34.5	4.0	4
Chromium		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Copper		µg/L	29	BQL	BQL	BQL	BQL	27	28	BQL	BQL	BQL	BQL	BQL	BQL	29.0	BQL	25.0	12
Iron		µg/L	1,543	271	440	486	2,084	846	391	144	179	83	68	279	568	2084	68	60	12
Lead		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	10.4	--	--	9.4	--	--	11.7	--	--	12.8	--	--	11.1	12.8	9.4	4.0	4
Manganese		µg/L	130.0	26.3	56.1	57.0	112.0	60.2	52.6	BQL	BQL	BQL	BQL	BQL	41.2	130.0	BQL	25.0	12
Mercury		µg/L	--	BQL	--	--	--	--	--	--	--	--	--	BQL	BQL	BQL	BQL	0.50	2
Nickel		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Potassium		mg/L	2.8	--	--	2.4	--	--	3.2	--	--	3.6	--	--	3.0	3.6	2.4	0.5	4
Selenium		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon		mg/L	4	--	--	BQL	--	--	5	--	--	BQL	--	--	BQL	5	BQL	4	4
Silver		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium		mg/L	18.8	13.0	14.3	13.0	BQL	BQL	13.8	16.3	15.4	16.5	18.7	19.4	13.3	19.4	BQL	5.0	12
Thallium		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Zinc		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	25.0	4

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

Print Date: 1/6/2009 1:08 pm