Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2006 TO 12/31/2006
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	11	11	12	--	11	12	12	12	12	12	12	--	12	12	11	-	10
Alkalinity, Bicarbonate		mg/L	67	65	71	--	83	109	96	124	108	93	111	--	93	124	65	-	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	67	65	71	--	83	109	96	124	108	93	111	--	93	124	65	-	10
Bromate		µg/L	BQL	--	--	--	--	--	--	--	--	--	--	--	BQL	BQL	BQL	10	1
Bromide		mg/L	0.02	0.02	0.03	0.04	0.02	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.04	0.02	0.01	12
Carbon Dioxide		mg/L	3	2	2	--	4	3	4	2	4	4	6	--	3	6	2	-	10
Chloride		mg/L	18.6	15.6	24.1	--	15.7	17.6	17.2	24.9	16.4	14.6	17.7	--	18.2	24.9	14.6	5.0	10
Color		Units	17	33	15	--	25	18	24	24	20	45	33	--	25	45	15	0	10
Dissolved Oxygen		mg/L	10.4	11.8	12.2	--	7.8	6.2	5.8	7.2	6.6	8.9	10.9	--	8.8	12.2	5.8	0.0	10
Fluoride		mg/L	BQL	BQL	BQL	--	BQL	BQL	BQL	0.2	BQL	BQL	BQL	--	BQL	0.2	BQL	0.2	10
Hardness, Calcium		mg/L	70	68	66	--	75	89	81	121	91	80	88	--	83	121	66	-	10
Hardness, Total		mg/L	97	93	100	--	104	130	113	156	126	112	133	--	116	156	93	-	10
Methylene Blue Activated Substances		mg/L	--	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	BQL	BQL	BQL	--	0.05	0.16	--	--	--	BQL	BQL	--	BQL	0.16	BQL	0.05	7
N, Nitrate (Nitrate as N)		mg/L	1.4	1.4	1.0	--	0.8	BQL	0.7	0.8	1.1	1.0	0.9	--	0.9	1.4	BQL	0.2	10
N, Nitrite (Nitrite as N)		mg/L	BQL	0.01	0.01	--	0.02	--	0.01	0.03	--	BQL	BQL	--	0.01	0.03	BQL	0.01	8
pH		Units	7.6	7.8	7.9	--	7.6	7.9	7.7	8.1	7.7	7.7	7.6	--	7.8	8.1	7.6	-	10
Phosphate as Phosphorous		mg/L	BQL	BQL	BQL	--	0.04	--	0.03	--	0.04	0.03	0.01	--	0.02	0.04	BQL	0.01	8
Solids, Fixed		mg/L	120	68	125	--	114	182	140	217	142	--	137	--	138	217	68	1	9
Solids, Total		mg/L	221	146	152	--	203	278	208	332	175	--	272	--	221	332	146	1	9
Solids, Total Dissolved		mg/L	147	136	146	--	141	187	189	228	192	142	172	--	168	228	136	1	10
Solids, Total Suspended		mg/L	4	11	1	--	26	5	10	10	3	3	BQL	--	7	26	BQL	1	10
Solids, Volatile		mg/L	101	78	27	--	89	96	68	115	33	--	135	--	82	135	27	1	9
Specific Conductivity		µmhos/cm	242	216	226	--	242	269	--	370	286	268	274	--	266	370	216	0	9
Sulfate		mg/L	20.2	20.9	18.2	--	17.8	23.7	16.5	35.2	21.4	17.9	17.6	--	20.9	35.2	16.5	5.0	10
Temperature		°C	6.3	6.7	7.0	--	15.0	25.8	27.3	26.5	22.3	13.9	10.4	--	16.1	27.3	6.3	-	10
Threshold Odor Number		Units	5	3	3	--	3	6	4	1	1	2	4	--	3	6	1	1	10
Total Organic Carbon		mg/L	2.1	2.7	2.0	--	2.9	3.1	3.5	3.2	3.4	2.9	3.5	--	2.9	3.5	2.0	0.5	10
Turbidity		NTU	4.60	16.00	3.70	--	16.00	5.90	11.00	7.90	3.90	4.10	1.90	--	7.50	16.00	1.90	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

Print Date: 2/6/2007 8:40 am

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WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2006 TO 12/31/2006
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	--	548.0	--	--	371.0	122.0	--	194.0	--	70.4	--	--	261.1	548.0	70.4	25.0	5
Antimony		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Arsenic		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Barium		µg/L	--	36.6	--	--	38.6	41.6	--	52.6	--	34.1	--	--	40.7	52.6	34.1	25.0	5
Beryllium		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Cadmium		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Calcium		mg/L	--	26.2	--	--	29.2	34.4	--	44.0	37.9	32.7	--	--	34.1	44.0	26.2	0.5	6
Chromium		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	5
Copper		µg/L	BQL	BQL	BQL	--	35	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	35	BQL	25.0	10
Iron		µg/L	282	817	236	--	736	279	496	405	214	225	168	--	386	817	168	60	10
Lead		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Magnesium		mg/L	--	6.9	--	--	8.3	10.3	--	13.3	9.0	8.1	--	--	9.3	13.3	6.9	0.5	6
Manganese		µg/L	40	45	34	--	70	52	51	38	BQL	BQL	BQL	--	33	70	BQL	25.0	10
Mercury		µg/L	--	BQL	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.5	2
Nickel		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	5
Potassium		mg/L	--	2.1	--	--	2.3	2.9	--	3.3	--	2.6	--	--	2.6	3.3	2.1	0.5	5
Selenium		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	5
Silicon		mg/L	--	4	--	--	5	4	--	4	--	4	--	--	4	5	4	4	5
Silver		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	5
Sodium		mg/L	10.3	9.8	12.8	--	10.1	12.2	10.2	16.6	10.8	8.8	8.7	--	11.0	16.6	8.7	5.0	10
Thallium		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	5
Zinc		µg/L	--	BQL	--	--	BQL	BQL	--	BQL	--	BQL	--	--	BQL	BQL	BQL	25	5

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