



**WATER QUALITY LABORATORY  
INORGANIC ANALYSES  
PERIOD OF 01/01/2007 TO 12/31/2007  
Potomac River-Corbalis Water Treatment Plant Source**

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit	# of Tests
Aggressive Index Number		Units	11	12	11	12	12	12	12	12	12	12	12	--	12	12	11	-	11
Alkalinity, Bicarbonate		mg/L	56	93	62	89	109	114	113	89	99	117	128	--	97	128	56	-	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	56	93	62	89	109	114	113	89	99	117	128	--	97	128	56	-	11
Bromate		µg/L	BQL	--	--	--	--	--	--	--	--	--	--	--	BQL	BQL	BQL	10	1
Bromide		mg/L	0.02	0.03	BQL	0.02	BQL	0.02	0.02	0.03	0.03	0.02	0.02	0.03	0.02	0.03	BQL	0.01	12
Carbon Dioxide		mg/L	2	1	2	2	1	2	1	2	1	1	4	--	2	4	1	-	11
Chloride		mg/L	11.5	29.7	22.8	20.2	11.9	20.2	23.0	26.4	28.7	31.9	26.8	--	23.0	31.9	11.5	5.0	11
Color		Units	88	14	62	23	19	20	34	23	17	16	19	--	30	88	14	0	11
Dissolved Oxygen		mg/L	13.4	13.3	--	11.4	9.2	8.3	8.4	5.1	7.9	9.2	8.6	--	9.5	13.4	5.1	0.0	10
Fluoride		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	0.2	11
Hardness, Calcium		mg/L	50	92	62	72	94	81	86	68	87	100	114	--	82	114	50	-	11
Hardness, Total		mg/L	74	123	86	112	138	132	142	120	128	157	164	--	125	164	74	-	11
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	0.07	BQL	BQL	BQL	BQL	--	BQL	0.07	BQL	0.05	9
N, Nitrate (Nitrate as N)		mg/L	0.8	1.5	1.2	1.0	1.0	0.6	0.2	BQL	BQL	BQL	1.0	--	0.7	1.5	BQL	0.2	11
N, Nitrite (Nitrite as N)		mg/L	BQL	0.01	BQL	0.01	BQL	0.02	0.01	BQL	BQL	BQL	0.01	--	BQL	0.02	BQL	0.01	11
pH		Units	7.7	8.2	7.7	8.0	8.5	8.0	8.4	7.9	8.3	8.3	7.8	--	8.1	8.5	7.7	-	11
Phosphate as Phosphorous		mg/L	BQL	--	--	0.01	BQL	0.03	BQL	--	BQL	BQL	0.02	--	BQL	0.03	BQL	0.01	8
Solids, Total		mg/L	151	187	214	190	222	183	226	298	213	257	236	--	216	298	151	1	11
Solids, Total Dissolved		mg/L	125	180	177	--	170	214	--	171	217	243	224	--	191	243	125	1	9
Solids, Total Suspended		mg/L	11	1	--	1	--	2	--	108	4	1	1	--	16	108	1	1	8
Specific Conductivity		µmhos/cm	173	327	241	274	284	312	347	315	346	410	380	--	310	410	173	0	11
Sulfate		mg/L	13.8	20.0	15.9	16.1	27.5	18.6	33.2	34.3	34.3	43.6	32.8	--	26.4	43.6	13.8	5.0	11
Temperature		°C	9.9	2.5	9.0	8.1	17.3	24.1	27.0	23.9	19.3	15.4	11.7	--	15.3	27.0	2.5	-	11
Threshold Odor Number		Units	4	7	12	9	5	4	8	7	8	5	11	--	7	12	4	0	11
Total Organic Carbon		mg/L	4.5	2.4	3.7	2.1	2.1	3.2	3.4	4.0	3.7	3.5	3.7	--	3.3	4.5	2.1	0.5	11
Turbidity		NTU	24.00	1.80	34.00	1.60	11.00	3.10	3.90	55.00	2.80	1.60	2.00	--	12.80	55.00	1.60	0.00	11

BQL = The lowest quantitation limit of all analyses for the particular parameter, Below Quantitation Limit.

<sup>1</sup> 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.

<sup>2</sup> mg/L=milligrams per liter, µg/L=micrograms per liter



**WATER QUALITY LABORATORY  
METAL ANALYSES  
PERIOD OF 01/01/2007 TO 12/31/2007  
Potomac River-Corbalis Water Treatment Plant Source**

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit	# of Tests
Aluminum		µg/L	628.0	--	--	48.1	--	--	84.6	--	--	35.5	--	--	199.1	628.0	35.5	25.0	4
Antimony		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Arsenic		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Barium		µg/L	35.6	--	--	33.6	--	--	44.6	--	--	45.7	--	--	39.9	45.7	33.6	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	--	--	--	32.8	--	--	37.7	--	--	39.8	--	--	36.8	39.8	32.8	0.5	3
Chromium		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Copper		µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	11
Iron		µg/L	1,149	186	1,133	218	2,268	198	155	500	67	83	125	--	553	2268	67	60	11
Lead		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	5.5	--	--	8.6	--	--	13.6	--	--	13.9	--	--	10.4	13.9	5.5	0.5	4
Manganese		µg/L	48.1	28.4	64.2	34.9	248.0	43.1	257.0	42.3	BQL	BQL	BQL	--	69.6	257.0	BQL	25.0	11
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	2.2	--	--	1.9	--	--	3.1	--	--	3.7	--	--	2.7	3.7	1.9	0.5	4
Selenium		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon		mg/L	6	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	6	BQL	4	4
Silver		µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium		mg/L	7.2	14.8	12.7	10.4	8.2	24.7	15.4	17.0	18.4	21.8	18.1	--	15.3	24.7	7.2	5.0	11
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

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