



**WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2005 TO 12/31/2005
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	13	12	11	12	--	12	12	11	--	11	12	13	11	-	9
Alkalinity, Bicarbonate		mg/L	--	64	92	74	63	108	--	113	121	74	--	59	85	121	59	-	9
Alkalinity, Carbonate		mg/L	--	0	0	0	0	0	--	0	0	0	--	0	0	0	0	-	9
Alkalinity, Hydroxyl		mg/L	--	0	0	0	0	0	--	0	0	0	--	0	0	0	0	-	9
Alkalinity, Phenolphthalein		mg/L	--	0	0	0	0	0	--	0	0	0	--	0	0	0	0	-	9
Alkalinity, Total		mg/L	--	64	92	74	63	108	--	113	121	74	--	59	85	121	59	-	9
Bromate		µg/L	--	--	--	BQL	--	--	--	--	--	BQL	--	--	BQL	BQL	BQL	10	2
Bromide		mg/L	0.02	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.03	0.03	0.02	0.03	0.04	0.02	0.01	12
Carbon Dioxide		mg/L	--	3	0	2	6	4	--	3	3	5	--	4	3	6	0	-	9
Chloride		mg/L	--	76.4	19.5	16.2	19.2	16.2	--	17.2	23.5	23.9	--	19.5	25.7	76.4	16.2	5.0	9
Color		Units	--	32	7	18	47	32	--	20	16	24	--	26	25	47	7	0	9
Dissolved Oxygen		mg/L	--	12.8	12.8	8.0	6.0	6.1	--	7.3	8.3	9.2	--	11.8	9.1	12.8	6.0	0.0	9
Fluoride		mg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	0.2	9
Hardness, Calcium		mg/L	--	73	94	65	56	93	--	85	101	65	--	56	76	101	56	-	9
Hardness, Total		mg/L	--	114	132	100	79	138	--	140	162	100	--	82	116	162	79	-	9
Methylene Blue Activated Substances		mg/L	--	--	--	--	0.050	BQL	--	--	--	--	--	--	BQL	0.050	BQL	0.050	2
N, Ammonia (Ammonia as N)		mg/L	--	0.06	BQL	BQL	0.13	0.06	--	BQL	BQL	--	--	BQL	BQL	0.13	BQL	0.05	8
N, Nitrate (Nitrate as N)		mg/L	--	1.5	1.2	0.9	0.7	0.9	--	0.7	0.7	1.0	--	1.4	1.0	1.5	0.7	0.2	9
N, Nitrite (Nitrite as N)		mg/L	--	0.01	0.01	0.01	0.02	0.02	--	0.01	BQL	BQL	--	0.01	0.01	0.02	BQL	0.01	9
pH		Units	--	7.6	8.9	7.9	7.3	7.7	--	7.9	7.9	7.5	--	7.5	7.8	8.9	7.3	-	9
Phosphate as Phosphorous		mg/L	--	BQL	BQL	0.01	--	0.03	--	0.03	--	0.02	--	--	0.02	0.03	BQL	0.01	6
Solids, Fixed		mg/L	--	229	--	154	103	225	--	199	233	205	--	108	182	233	103	1	8
Solids, Total		mg/L	--	294	326	318	216	297	--	286	372	243	--	218	286	372	216	1	9
Solids, Total Dissolved		mg/L	--	234	187	154	94	202	--	191	250	138	--	136	176	250	94	1	9
Solids, Total Suspended		mg/L	--	5	2	12	25	17	--	9	--	6	--	7	10	25	2	1	8
Solids, Volatile		mg/L	--	65	203	164	113	72	--	--	139	38	--	110	113	203	38	1	8
Specific Conductivity		µmhos/cm	--	430	328	214	219	292	--	315	382	261	--	218	295	430	214	0	9
Sulfate		mg/L	--	17.6	33.4	16.6	14.1	24.2	--	22.7	39.1	18.4	--	16.5	22.5	39.1	14.1	5.0	9
Temperature		°C	--	3.8	8.5	18.3	18.5	23.5	--	27.0	25.1	14.4	--	5.9	16.1	27.0	3.8	-	9
Threshold Odor Number		Units	--	12	1	5	1	1	--	5	4	5	--	1	4	12	1	1	9
Total Organic Carbon		mg/L	--	13.6	2.0	2.1	3.8	2.8	--	2.8	3.0	3.9	--	2.8	4.1	13.6	2.0	0.5	9
Turbidity		NTU	--	8.30	1.80	11.00	17.00	13.00	--	6.90	12.00	8.10	--	10.00	9.79	17.00	1.80	0.00	9

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



**WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2005 TO 12/31/2005
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	--	BQL	--	--	1,347	--	--	BQL	--	--	--	--	BQL	1347	BQL	500	3
Antimony		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	3
Arsenic		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	2	3
Barium		µg/L	--	--	--	--	--	--	--	46	--	--	--	--	46	46	46	2	1
Beryllium		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Cadmium		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Calcium		mg/L	--	31.4	--	--	21.7	--	--	36.0	--	--	--	--	29.7	36.0	21.7	0.5	3
Chromium		µg/L	--	--	--	--	1	--	--	BQL	--	--	--	--	BQL	1	BQL	1	2
Copper		µg/L	--	BQL	BQL	BQL	BQL	148	--	4	5	BQL	--	2	18	148	BQL	2	9
Iron		µg/L	--	457	77	499	990	771	--	458	510	510	--	460	526	990	77	20	9
Lead		µg/L	--	BQL	--	--	1.31	--	--	0.42	--	--	--	--	0.58	1.31	BQL	0.37	3
Magnesium		mg/L	--	9.0	--	--	6.9	--	--	11.3	--	--	--	--	9.1	11.3	6.9	0.5	3
Manganese		µg/L	--	79	BQL	52	128	77	--	44	61	43	--	34	58	128	BQL	2	9
Mercury		µg/L	--	--	BQL	--	BQL	--	--	--	--	--	--	--	BQL	BQL	BQL	0.5	2
Nickel		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	5	3
Potassium		mg/L	--	4.1	--	--	2.9	--	--	3.0	--	--	--	--	3.3	4.1	2.9	0.5	3
Selenium		µg/L	--	--	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	2
Silicon		mg/L	--	6	--	--	6	--	--	5	--	--	--	--	6	6	5	1	3
Silver		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.5	3
Sodium		mg/L	--	40.1	12.8	9.4	10.9	11.6	--	12.0	17.0	15.0	--	11.0	15.5	40.1	9.4	1.0	9
Thallium		µg/L	--	BQL	--	--	--	--	--	BQL	--	--	--	--	BQL	BQL	BQL	2	2
Zinc		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	25	3

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