



**WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2010 TO 12/31/2010
Potomac River - Corbalis Water Treatment Plant Source Water**

Parameter	Units ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average	Max	Min	Quant ² Limit	# of Tests
Aggressive Index Number	Units	11	11	11	12	12	12	12	12	12	12	12	11	12	12	11	-	12
Alkalinity, Bicarbonate	mg/L	67	80	67	82	99	101	109	86	88	102	110	67	88	110	67	-	12
Alkalinity, Carbonate	mg/L	0	0	0	0	0	4	0	0	0	0	0	0	0	4	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	2	0	0	0	0	0	0	0	2	0	-	12
Alkalinity, Total	mg/L	67	80	67	82	99	105	109	86	88	102	110	67	89	110	67	-	12
Bromide	mg/L	0.03	0.02	0.03	0.03	0.06	0.03	0.04	0.03	0.03	0.04	0.05	BQL	0.03	0.06	BQL	0.01	12
Carbon Dioxide	mg/L	4	5	4	3	4	1	2	1	0	2	3	4	3	5	0	-	12
Chloride	mg/L	40.3	10.0	17.9	24.8	39.1	17.2	27.2	25.2	32.4	25.9	29.2	8.7	24.8	40.3	8.7	5.0	12
Color	Units	16	48	31	31	29	31	16	31	18	20	22	53	29	53	16	0	12
Dissolved Oxygen	mg/L	--	14.2	10.2	10.0	7.1	--	7.3	6.7	7.2	8.7	9.7	--	9.0	14.2	6.7	0.0	9
Fluoride	mg/L	BQL	BQL	BQL	BQL	0.2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.2	BQL	0.2	12
Hardness, Calcium	mg/L	70	82	66	80	85	117	104	82	68	86	71	58	81	117	58	-	12
Hardness, Total	mg/L	110	120	119	118	127	149	149	119	132	128	140	92	125	149	92	-	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	BQL	BQL	--	--	BQL	BQL	BQL	0.20	10
N, Nitrate (Nitrate as N)	mg/L	1.5	1.7	1.2	0.7	0.9	1.1	0.7	1.3	BQL	0.9	0.4	1.6	1.0	1.7	BQL	0.2	12
N, Nitrite (Nitrite as N)	mg/L	BQL	0.01	0.01	0.01	0.02	--	0.01	0.03	--	BQL	BQL	0.01	0.01	0.03	BQL	0.01	10
pH	Units	7.5	7.5	7.5	7.7	7.7	8.2	8.0	8.2	8.7	8.0	7.9	7.5	7.9	8.7	7.5	-	12
Phosphate as Phosphorous	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.10	12
Solids, Total	mg/L	180	163	185	166	236	235	223	210	225	212	248	149	203	248	149	1	12
Solids, Total Dissolved	mg/L	188	140	110	196	209	200	226	195	210	205	244	132	188	244	110	1	12
Solids, Total Suspended	mg/L	1	13	32	10	4	BQL	4	1	1	3	BQL	12	7	32	BQL	1	12
Specific Conductivity	µmhos/cm	306	251	244	292	350	361	368	336	397	350	396	213	322	397	213	0	12
Sulfate	mg/L	17.8	23.2	18.8	15.9	22.2	46.6	48.2	30.6	50.2	25.5	28.0	19.2	28.9	50.2	15.9	5.0	12
Temperature	°C	5.1	3.7	14.1	16.0	17.2	25.9	28.2	27.4	22.9	14.4	8.7	6.5	15.8	28.2	3.7	-	12
Threshold Odor Number	Units	5	1	7	1	10	4	6	6	7	8	10	8	6	10	1	0	12
Total Organic Carbon	mg/L	2.2	2.0	2.2	2.4	2.7	2.6	2.6	4.6	3.2	3.4	3.3	3.9	2.9	4.6	2.0	0.5	12
Turbidity	NTU	3.9	15	26	4.5	5.4	2.6	2.8	1.6	0.80	2.8	2.1	17	7.0	26	0.80	0.00	12

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

¹mg/L=milligrams per liter, µg/L=micrograms per liter

²Quant Limit = Quantitation Limit = Lowest level of measurement.



**WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2010 TO 12/31/2010
Potomac River - Corbalis Water Treatment Plant Source Water**

Parameter	Units ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average	Max	Min	Quant ² Limit	# of Tests
Aluminum	µg/L	95.2	--	--	257	--	--	64.2	--	--	86.4	--	--	126	257	64.2	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	38.8	--	--	38.8	--	--	50.9	--	--	44.4	--	--	43.2	50.9	38.8	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	29.0	--	--	29.3	--	--	37.7	--	--	35.9	--	--	33.0	37.7	29.0	1.0	4
Chromium	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Copper	µg/L	BQL	BQL	30.2	31.0	BQL	BQL	BQL	BQL	BQL	BQL	26.0	BQL	BQL	31.0	BQL	25.0	12
Iron	µg/L	248	653	1800	514	397	92.0	102	98.4	53.6	164	147	693	414	1800	53.6	25.0	12
Lead	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium	mg/L	8.2	--	--	8.4	--	--	13.0	--	--	9.5	--	--	9.8	13.0	8.2	1.0	4
Manganese	µg/L	26.2	35.5	111	67.2	74.8	26.5	BQL	BQL	BQL	BQL	BQL	32.8	31.2	111	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	2.4	--	--	2.3	--	--	3.2	--	--	3.7	--	--	2.9	3.7	2.3	1.0	4
Selenium	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon	mg/L	5.9	--	--	2.7	--	--	3.2	--	--	2.2	--	--	3.5	5.9	2.2	1.0	4
Silver	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium	mg/L	22.5	6.5	10.3	14.5	20.1	12.1	17.6	15.2	23.8	16.0	19.3	6.3	15.4	23.8	6.3	1.0	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

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