

WATER QUALITY LABORATORY INORGANIC ANALYSES

PERIOD OF 01/01/2009 TO 12/31/2009

Potomac River-Corbalis Water Treatment Plant Source

																	Quant	# of
Parameter	Units ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Limit	Tests
Aggressive Index Number	Units	11		12	11		12	12	13	13	11	12	12	12	13	11	-	10
Alkalinity, Bicarbonate	mg/L	86	61	103	62		68	104	89	97	78	98	90	85	104	61	-	11
Alkalinity, Carbonate	mg/L	0	0	0	0		0	0	16	12	0	0	0	3	16	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	8	6	0	0	0	1	8	0	-	11
Alkalinity, Total	mg/L	86	61	103	62		68	104	105	109	78	98	90	88	109	61	-	11
Bromide	mg/L	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.03	0.03	0.02	BQL	0.02	0.02	0.03	BQL	0.01	12
Carbon Dioxide	mg/L	4	2	2	4		2	5	0	0	3	4	4	3	5	0	-	11
Chloride	mg/L	20.4	18.1	19.0	27.3		16.2	19.7	20.2	29.6	20.8	16.0	14.1	20.1	29.6	14.1	5.0	11
Color	Units	15	20	42	37		46	17	33	14	73	26	21	31	73	14	0	11
Dissolved Oxygen	mg/L	11.0	12.9	9.7	9.5		6.8	7.0	8.6	10.1	8.8	8.7		9.3	12.9	6.8	0.0	10
Fluoride	mg/L	BQL	BQL	BQL	BQL		BQL	0.2	11									
Hardness, Calcium	mg/L	82	76	108	62		78	98	92	108	78	96	88	88	108	62	-	11
Hardness, Total	mg/L	124	109	170	100		101	158	145	175	106	148	116	132	175	100	-	11
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	0.20	11									
N, Nitrate (Nitrate as N)	mg/L	1.2	1.0	8.0	0.7			0.8	0.6	0.8		1.1	1.2	0.9	1.2	0.6	0.2	9
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL		0.01		BQL	0.01	BQL	BQL	0.01	0.01	0.01	BQL	0.01	BQL	0.01	10
pH	Units	7.6	7.8	8.1	7.5		7.8	7.6	8.9	8.8	7.7	7.7	7.7	7.9	8.9	7.5	-	11
Phosphate as Phosphorous	mg/L		BQL	BQL			BQL		BQL	0.10	8							
Solids, Total	mg/L	191	163	222	162		158	225	209	252	191	185	184	195	252	158	1	11
Solids, Total Dissolved	mg/L	179	160	205	152		141	215	202	258	172	181	165	185	258	141	1	11
Solids, Total Suspended	mg/L	1	2	4	11		8	5	4	1	8	1	3	4	11	1	1	11
Specific Conductivity	µmhos/cm	295	268	347	254		216	344	317	397	290	302	278	301	397	216	0	11
Sulfate	mg/L	28.7	37.4	44.4	17.0		16.2	39.4	37.3	45.0	23.6	33.8	28.4	31.9	45.0	16.2	10.0	11
Temperature	°C	5.1	5.9	10.5	11.9		23.9	26.0	28.8	22.9	10.9	13.4	7.1	15.1	28.8	5.1	-	11
Threshold Odor Number	Units	4	9	5	8		6	6	3	5	7	6	7	6	9	3	0	11
Total Organic Carbon	mg/L	2.1	2.3	2.7	3.3		4.0	2.4	3.0	2.9	6.7	3.3	2.6	3.2	6.7	2.1	0.5	11
Turbidity	NTU	3.9	5.0	3.0	11		12	5.0	2.9	1.5	20	2.9	4.0	6.5	20	1.5	0.00	11

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

 1 mg/L=milligrams per liter, μ g/L=micrograms per liter



WATER QUALITY LABORATORY METAL ANALYSES

PERIOD OF 01/01/2009 TO 12/31/2009

Potomac River-Corbalis Water Treatment Plant Source

																	Quant	# of
Parameter	Units ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Limit	Tests
Aluminum	μg/L	81.3			418			80.8			850			358	850	80.8	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	36.8			37.5			49.5			31.7			38.9	49.5	31.7	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	0.9	4
Calcium	mg/L	35.9	-		23.6			39.2		-	31.4			32.5	39.2	23.6	1.0	4
Chromium	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	5.0	4
Copper	μg/L	BQL	BQL	BQL	27.5		33.0	BQL	33.0	BQL	25.0	11						
Iron	μg/L	218	161	129	654		763	111	121	33.7	880	130	146	304	880	33.7	25.0	11
Lead	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	2.0	4
Magnesium	mg/L	9.4			6.4			12.5			8.0			9.1	12.5	6.4	1.0	4
Manganese	μg/L	30.1	BQL	31.5	65.1		65.4	BQL	65.4	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	3.0			2.2			2.6			6.2			3.5	6.2	2.2	1.0	4
Selenium	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	5.0	4
Silicon	mg/L	3.1			4.6			1.4			5.2			3.6	5.2	1.4	1.0	4
Silver	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	5.0	4
Sodium	mg/L	11.8	11.2	14.1	15.4		10.4	13.9	14.9	20.3	12.8	12.2	10.1	13.4	20.3	10.1	1.0	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

BQL = The lowest quantitation limit of all analyses for the particular parameter, Below Quantitation Limit. 1 mg/L=milligrams per liter, μ g/L=micrograms per liter

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