Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2013 TO 12/31/2013
Potomac River - Corbalis Water Treatment Plant Source

Parameter	Units [1]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit [2]	# of Tests
Aggressive Index Number	Units	12	13	12	12	11	-	12	13	12	12	13	-	12	13	11	-	10
Alkalinity, Bicarbonate	mg/L	79	104	78	76	77	-	112	105	98	93	127	-	95	127	76	-	10
Alkalinity, Carbonate	mg/L	0	0	0	0	0	-	0	9	0	0	12	-	2	12	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	4	0	0	6	-	1	6	0	-	10
Alkalinity, Total	mg/L	79	104	78	76	77	-	112	114	98	93	138	-	97	138	76	-	10
Bromate	µg/L	-	-	-	-	-	-	-	-	-	-	BQL	BQL	BQL	BQL	BQL	5	2
Bromide	mg/L	0.03	0.03	0.02	0.03	0.03	0.02	0.03	0.03	0.05	0.04	0.06	0.05	0.04	0.06	0.02	0.01	12
Carbon Dioxide	mg/L	2	1	1	2	4	-	2	1	1	3	1	-	2	4	1	-	10
Chloride	mg/L	15.2	16.5	13.1	11.1	20.9	-	16.4	16.3	23.4	26.9	24.7	-	18.5	26.9	11.1	5.0	10
Color	Units	12	9	12	13	18	-	8	15	17	37	12	-	15	37	8	0	10
Dissolved Oxygen	mg/L	12.2	13.9	12.2	9.5	7.6	-	5.8	8.4	8.5	7.8	12.2	-	9.8	13.9	5.8	0.0	10
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	0.2	10
Hardness, Calcium	mg/L	84	104	76	73	68	-	98	100	79	80	131	-	89	131	68	-	10
Hardness, Total	mg/L	113	142	102	99	97	-	142	139	127	117	183	-	126	183	97	-	10
Methylene Blue Activated Substances	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	0.05	1
N, Ammonia (Ammonia as N)	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	-	BQL	-	BQL	BQL	BQL	0.20	9
N, Nitrate (Nitrate as N)	mg/L	1.2	1.6	1.1	0.8	0.8	-	0.9	0.9	BQL	0.4	1.0	-	1.0	1.6	0.4	0.2	10
N, Nitrite (Nitrite as N)	mg/L	-	BQL	BQL	BQL	0.01	-	BQL	BQL	BQL	BQL	BQL	-	BQL	0.01	BQL	0.01	9
pH	Units	8.0	8.6	8.2	7.9	7.6	-	8.0	8.6	8.2	7.8	8.8	-	8.2	8.8	7.6	-	10
Phosphate as Phosphorous	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	0.10	10
Orthophosphate as PO4	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	0.31	10
Solids, Total	mg/L	175	213	139	154	175	-	200	204	211	193	280	-	194	280	139	1	10
Solids, Total Dissolved	mg/L	-	258	88	140	-	-	240	210	190	154	262	-	193	262	88	1	8
Solids, Total Suspended	mg/L	7	10	BQL	BQL	8	-	BQL	3	BQL	BQL	BQL	-	3	10	BQL	1	10
Specific Conductivity	µmhos/cm	281	334	256	239	258	-	363	331	332	305	435	-	313	435	239	0	10
Sulfate	mg/L	35.6	32.9	24.7	27.5	17.8	-	32.4	29.0	33.8	25.1	49.7	-	30.9	49.7	17.8	5.0	10
Temperature	°C	6.8	5.6	7.5	15.5	21.1	-	27.1	24.8	20.0	17.0	8.2	-	15.4	27.1	5.6	-	10
Threshold Odor Number	Units	5	7	7	1	7	-	4	6	8	11	9	-	7	11	1	0	10
Total Organic Carbon	mg/L	2.4	2.0	2.0	2.1	2.2	-	2.6	3.2	2.9	3.8	2.6	-	2.6	3.8	2.0	0.5	10
Turbidity	NTU	10	5.5	2.6	1.6	6.1	-	0.55	2.3	0.90	2.6	0.35	-	3.3	10	0.35	0.05	10

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

[1] mg/L = milligrams per liter, µg/L = micrograms per liter, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

[2] Quant Limit = Quantitation Limit = lowest level of measurement

Report No: 012314140212

Fairfax Water

WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2013 TO 12/31/2013
Potomac River - Corbalis Water Treatment Plant Source

Parameter	Units [1]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit [2]	# of Tests
Aluminum	µg/L	130	-	-	47.9	-	-	BQL	-	-	62.9	-	-	60.2	130	BQL	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	39.4	-	-	36.1	-	-	46.6	-	-	41.5	-	-	40.9	46.6	36.1	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	34.6	-	-	28.8	-	-	39.7	-	-	31.3	-	-	33.6	39.7	28.8	1.0	4
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	25.0	10
Iron	µg/L	255	461	116	82.1	513	-	BQL	116	60.4	148	25.3	-	178	513	25.3	25.0	10
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Magnesium	mg/L	7.9	-	-	6.5	-	-	10.8	-	-	9.6	-	-	8.7	10.8	6.5	1.0	4
Manganese	µg/L	BQL	29.2	BQL	BQL	59.2	-	BQL	BQL	BQL	BQL	BQL	-	BQL	59.2	BQL	25.0	10
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	2.1	-	-	1.7	-	-	2.9	-	-	3.6	-	-	2.6	3.6	1.7	1.0	4
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Silicon	mg/L	1.8	-	-	1.9	-	-	2.6	-	-	1.9	-	-	2.1	2.6	1.8	1.0	4
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Sodium	mg/L	10.2	10.4	8.1	6.8	11.7	-	11.0	10.9	13.9	16.7	16.9	-	11.7	16.9	6.8	1.0	10
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, µg/L = micrograms per liter

[2] Quant Limit = Quantitation Limit = lowest level of measurement

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