Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2012 TO 12/31/2012
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	11	12	11	12	11	12	--	12	13	13	11	--	12	13	11	-	10
Alkalinity, Bicarbonate	mg/L	81	95	63	104	101	114	--	108	110	118	69	--	96	118	63	-	10
Alkalinity, Carbonate	mg/L	0	0	0	0	0	0	--	0	0	8	0	--	0	8	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	--	0	0	4	0	--	0	4	0	-	10
Alkalinity, Total	mg/L	81	95	63	104	101	114	--	108	110	126	69	--	97	126	63	-	10
Bromide	mg/L	0.04	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.02	0.04	0.03	0.04	0.02	0.01	12
Carbon Dioxide	mg/L	3	1	5	3	8	2	--	1	1	1	2	--	3	8	1	-	10
Chloride	mg/L	18.0	13.0	14.4	13.8	10.6	20.8	--	20.8	21.2	23.6	16.7	--	17.3	23.6	10.6	5.0	10
Color	Units	15	--	35	10	30	14	--	13	16	11	26	--	19	35	10	0	9
Dissolved Oxygen	mg/L	12.8	14.1	11.7	8.3	5.7	7.9	--	8.3	8.7	10.2	11.0	--	9.9	14.1	5.7	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	76	99	62	101	110	107	--	100	95	123	62	--	94	123	62	-	10
Hardness, Total	mg/L	111	137	89	144	144	149	--	141	139	170	91	--	132	170	89	-	10
Methylene Blue Activated Substances	mg/L	--	--	--	--	--	--	--	BQL	--	--	--	--	BQL	BQL	BQL	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	1.3	1.4	1.0	1.0	1.0	1.2	--	0.9	0.9	1.4	1.5	--	1.2	1.5	0.9	0.2	10
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	0.07	BQL	--	BQL	BQL	BQL	BQL	--	BQL	0.07	BQL	0.01	10
pH	Units	7.7	8.5	7.4	7.8	7.4	8.0	--	8.3	8.6	8.5	7.8	--	8.0	8.6	7.4	-	10
Phosphate as Phosphorous	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	0.10	10
Solids, Total	mg/L	143	190	129	203	593	216	--	256	195	252	145	--	232	593	129	1	10
Solids, Total Dissolved	mg/L	60	262	86	198	158	156	--	278	168	236	98	--	170	278	60	1	10
Solids, Total Suspended	mg/L	1	3	19	4	323	3	--	BQL	BQL	BQL	1	--	35	323	BQL	1	10
Specific Conductivity	µmhos/cm	270	443	201	337	279	389	--	359	369	427	245	--	332	443	201	0	10
Sulfate	mg/L	20.5	32.4	16.9	33.7	21.6	37.5	--	30.1	32.1	42.5	18.8	--	28.6	42.5	16.9	5.0	10
Temperature	°C	4.3	2.7	7.3	17.9	25.3	25.4	--	25.1	23.3	16.0	8.9	--	15.6	25.4	2.7	-	10
Threshold Odor Number	Units	1	6	7	4	11	8	--	6	8	7	1	--	6	11	1	0	10
Total Organic Carbon	mg/L	1.8	1.7	3.2	2.0	3.4	2.7	--	3.4	3.6	3.0	3.4	--	2.8	3.6	1.7	0.5	10
Turbidity	NTU	2.3	2.6	20	3.2	210	2.9	--	1.2	0.70	1.1	4.5	--	24.9	210	0.70	0.00	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: 012813122327

Fairfax Water

WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2012 TO 12/31/2012
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	44.9	--	--	72.1	--	--	--	BQL	--	BQL	--	--	29.3	72.1	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	36.6	--	--	43.5	--	--	--	36.4	--	44.6	--	--	40.3	44.6	36.4	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	31.4	--	--	42.5	--	--	--	38.6	--	50.9	--	--	40.9	50.9	31.4	1.0	4
Chromium	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Copper	µg/L	BQL	BQL	BQL	BQL	32.0	BQL	--	BQL	BQL	BQL	BQL	--	BQL	32.0	BQL	25.0	10
Iron	µg/L	235	119	850	153	16200	94.7	--	BQL	94.0	54.4	366	--	1817	16200	BQL	25.0	10
Lead	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium	mg/L	8.6	--	--	10.4	--	--	--	10.4	--	11.5	--	--	10.2	11.5	8.6	1.0	4
Manganese	µg/L	28.0	BQL	41.8	BQL	1270	BQL	--	BQL	BQL	BQL	34.3	--	137	1270	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	--	--	2.3	--	--	--	3.2	--	3.9	--	--	2.9	3.9	2.1	1.0	4
Selenium	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon	mg/L	4.4	--	--	1.5	--	--	--	2.7	--	1.3	--	--	2.5	4.4	1.3	1.0	4
Silver	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium	mg/L	11.4	8.5	8.6	9.9	8.2	14.0	--	14.2	15.3	17.1	10.7	--	11.8	17.1	8.2	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

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

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