

FAIRFAX COUNTY WATER AUTHORITY
WATER QUALITY LABORATORY
INORGANIC AND METAL ANALYSES
PERIOD OF 01/01/2003 TO 12/31/2003
Potomac River-Corbais Water Treatment Plant Source

Parameter	Maximum Contaminant Level ¹	Contaminant Type ²	Units of Measure ³	Average	Max	Min	Quantitation Limit	# of Tests
Aggressive Index Number			Units	12	12	11	-	8
Alkalinity, Bicarbonate			mg/L	78	93	49	-	8
Alkalinity, Carbonate			mg/L	0	0	0	-	8
Alkalinity, Hydroxyl			mg/L	0	0	0	-	8
Alkalinity, Phenolphthalein			mg/L	0	0	0	-	8
Alkalinity, Total			mg/L	78	93	49	-	8
Bromate			µg/L	BQL	BQL	BQL	10	3
Bromide			mg/L	0.02	0.04	BQL	0.01	12
Carbon Dioxide			mg/L	3	6	2	-	8
Chemical Oxygen Demand			mg/L	5.9	11.8	BQL	5.0	2
Chloride			mg/L	23.8	112.5	7.3	5.0	8
Color			Units	46	88	14	0	8
Dissolved Oxygen			mg/L	10.1	12.5	6.1	0.0	8
Fluoride			mg/L	BQL	BQL	BQL	0.2	8
Hardness, Calcium			mg/L	79	92	66	-	8
Hardness, Total			mg/L	106	135	83	-	8
Methylene Blue Activated Substances			mg/L	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)			mg/L	BQL	0.05	BQL	0.05	5
N, Nitrate (Nitrate as N)			mg/L	1.3	1.6	1.2	0.2	8
N, Nitrite (Nitrite as N)			mg/L	0.01	0.03	0.01	0.01	7
pH			Units	7.7	8.0	7.4	-	8
Phosphate as Phosphorous			mg/L	0.02	0.07	BQL	0.01	8
Solids, Fixed			mg/L	165	261	134	1	8
Solids, Total			mg/L	237	352	181	1	8
Solids, Total Dissolved			mg/L	162	305	121	1	8
Solids, Total Suspended			mg/L	22	57	3	1	8
Solids, Volatile			mg/L	72	79	59	1	6
Specific Conductivity			µmhos/cm	272	593	184	0	8
Sulfate			mg/L	18.6	22.9	15.4	5.0	8
Temperature			°C	13.1	25.0	3.5	-	8
Threshold Odor Number			Units	9	12	3	1	8
Total Organic Carbon			mg/L	2.7	3.9	1.8	0.5	8
Turbidity			NTU	14.48	27.00	2.80	0.00	8
Aluminum			µg/L	601	1292	BQL	500	3
Antimony			µg/L	BQL	BQL	BQL	4	3
Arsenic			µg/L	BQL	BQL	BQL	2	3
Barium			µg/L	54	66	41	10	3
Beryllium			µg/L	BQL	BQL	BQL	1.0	3
Cadmium			µg/L	BQL	BQL	BQL	1	3
Calcium			mg/L	32.2	36.6	28.9	0.5	3
Chromium			µg/L	BQL	1	BQL	1	3
Copper			µg/L	BQL	109	BQL	40	8
Iron			µg/L	946	1970	140	60	8
Lead			µg/L	0.73	1.52	BQL	0.29	3
Magnesium			mg/L	8.6	9.9	7.9	0.5	3
Manganese			µg/L	79	156	BQL	25	8
Mercury			µg/L	BQL	BQL	BQL	0.5	2
Nickel			µg/L	BQL	BQL	BQL	5	3
Potassium			mg/L	3.2	3.7	2.5	0.5	3
Selenium			µg/L	BQL	BQL	BQL	4	3
Silicon			mg/L	5	6	4	4	3
Silver			µg/L	BQL	BQL	BQL	0.5	3
Sodium			mg/L	13.4	58.3	5.0	5.0	8
Thallium			µg/L	BQL	BQL	BQL	2	3
Zinc			µg/L	BQL	BQL	BQL	25	3

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

² P=Primary-enforceable, S=Secondary-non-enforceable, AL=Action Level on specific taps

³ mg/L=milligrams per liter, µg/L=micrograms per liter