FAIRFAX COUNTY WATER AUTHORITY
WATER QUALITY LABORATORY
INORGANIC AND METAL ANALYSES
PERIOD OF 01/01/2003 TO 12/31/2003
Occoquan Reservoir-Lorton/Occoquan 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	10	11	10	-	8
Alkalinity, Bicarbonate			mg/L	39	52	26	-	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	39	52	26	-	8
Bromate			µg/L	BQL	BQL	BQL	10	3
Bromide			mg/L	0.02	0.03	0.01	0.01	11
Carbon Dioxide			mg/L	9	18	3	-	8
Chemical Oxygen Demand			mg/L	13.4	15.4	11.4	5.0	2
Chloride			mg/L	21.7	43.2	9.8	5.0	8
Color			Units	84	122	52	0	8
Dissolved Oxygen			mg/L	7.4	11.4	3.4	0.0	8
Fluoride			mg/L	BQL	BQL	BQL	0.2	8
Hardness, Calcium			mg/L	41	50	34	-	8
Hardness, Total			mg/L	62	75	46	-	8
Methylene Blue Activated Substances			mg/L	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)			mg/L	0.09	0.20	BQL	0.05	6
N, Nitrate (Nitrate as N)			mg/L	0.9	1.7	0.5	0.2	8
N, Nitrite (Nitrite as N)			mg/L	0.03	0.08	0.01	0.01	7
pH			Units	7.0	7.4	6.6	-	8
Phosphate as Phosphorous			mg/L	0.01	0.03	BQL	0.01	8
Solids, Fixed			mg/L	101	158	36	1	8
Solids, Total			mg/L	185	230	132	1	8
Solids, Total Dissolved			mg/L	133	185	94	1	8
Solids, Total Suspended			mg/L	5	11	3	1	8
Solids, Volatile			mg/L	92	135	65	1	6
Specific Conductivity			µmhos/cm	183	268	126	0	8
Sulfate			mg/L	13.7	18.7	9.1	5.0	8
Temperature			°C	14.6	25.5	6.2	-	8
Threshold Odor Number			Units	12	23	3	1	8
Total Organic Carbon			mg/L	5.9	8.0	4.2	0.5	8
Turbidity			NTU	12.93	25.00	6.50	0.00	8
Aluminum			µg/L	BQL	772	BQL	500	3
Antimony			µg/L	BQL	BQL	BQL	4	3
Arsenic			µg/L	BQL	BQL	BQL	2	3
Barium			µg/L	37	50	20	10	3
Beryllium			µg/L	BQL	BQL	BQL	1.0	3
Cadmium			µg/L	BQL	BQL	BQL	1	3
Calcium			mg/L	16.2	19.4	10.3	0.5	3
Chromium			µg/L	BQL	1	BQL	1	3
Copper			µg/L	BQL	BQL	BQL	40	8
Iron			µg/L	688	1190	399	60	8
Lead			µg/L	BQL	0.58	BQL	0.29	3
Magnesium			mg/L	4.4	5.3	3.2	0.5	3
Manganese			µg/L	169	382	49	25	8
Mercury			µg/L	BQL	BQL	BQL	0.5	2
Nickel			µg/L	BQL	BQL	BQL	5	3
Potassium			mg/L	3.6	4.0	3.0	0.5	3
Selenium			µg/L	BQL	BQL	BQL	4	3
Silicon			mg/L	5	5	5	4	3
Silver			µg/L	BQL	BQL	BQL	0.5	3
Sodium			mg/L	13.2	24.2	6.5	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