FAIRFAX COUNTY WATER AUTHORITY
WATER QUALITY LABORATORY
INORGANIC AND METAL ANALYSES
PERIOD OF 01/01/2003 TO 12/31/2003
Occoquan Treatment Plant Finished Water

Parameter	Maximum Contaminant Level [1]	Contaminant Type [2]	Units of Measure[3]	Average	Max	Min	Quantitation Limit	# of Tests
Aggressive Index Number			Units	11	11	11	-	8
Alkalinity, Bicarbonate			mg/L	43	55	30	-	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	43	55	30	-	8
Bromate	10	P	µg/L	BQL	BQL	BQL	10	4
Bromide			mg/L	BQL	0.01	BQL	0.01	9
Carbon Dioxide			mg/L	4	11	1	-	8
Chemical Oxygen Demand			mg/L	BQL	7.8	BQL	5.0	2
Chloride	250.0	S	mg/L	29.3	48.5	18.0	5.0	8
Chlorine, Free			mg/L	1.0	3.5	0.0	0.0	8
Chlorine, Total			mg/L	4.1	4.6	3.7	0.0	8
Color	15	S	Units	7	14	0	0	8
Dissolved Oxygen			mg/L	7.9	13.2	3.1	0.0	8
Fluoride	4.0/2.0	P/S	mg/L	0.9	1.3	0.8	0.2	8
Hardness, Calcium			mg/L	78	96	66	-	8
Hardness, Total			mg/L	96	116	85	-	8
Methylene Blue Activated Substances	0.5	S	mg/L	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)			mg/L	0.79	1.30	BQL	0.05	8
N, Nitrate (Nitrate as N)	10	P	mg/L	0.9	1.7	0.6	0.2	8
N, Nitrite (Nitrite as N)	1	P	mg/L	BQL	0.01	BQL	0.01	8
pH	6.5-8.5	S	Units	7.4	7.8	7.0	-	8
Phosphate as Phosphorous			mg/L	0.47	0.77	0.27	0.20	7
Solids, Fixed			mg/L	146	192	97	1	8
Solids, Total			mg/L	208	246	156	1	8
Solids, Total Dissolved	500	S	mg/L	175	208	145	1	8
Solids, Total Suspended			mg/L	BQL	BQL	BQL	1	8
Solids, Volatile			mg/L	69	89	56	1	6
Specific Conductivity			µmhos/cm	270	343	219	0	8
Sulfate	250.0	S	mg/L	37.0	44.0	32.0	5.0	8
Taste			Units	3	4	2	1	8
Temperature			°C	16.6	25.7	9.9	-	8
Threshold Odor Number	3	S	Units	7	18	1	1	8
Total Organic Carbon			mg/L	2.8	3.2	2.1	0.5	8
Turbidity	≤5	P	NTU	0.53	0.80	0.20	0.00	8
Aluminum	50-200	S	µg/L	94	187	43	20	3
Antimony	6	P	µg/L	BQL	BQL	BQL	4	3
Arsenic	50	P	µg/L	BQL	BQL	BQL	2	3
Barium	2000	P	µg/L	31	38	25	10	3
Beryllium	4	P	µg/L	BQL	BQL	BQL	1.0	3
Cadmium	5	P	µg/L	BQL	BQL	BQL	1	3
Calcium			mg/L	33.7	39.4	29.0	0.5	3
Chromium	100	P	µg/L	BQL	BQL	BQL	1	3
Copper	1300	AL	µg/L	BQL	BQL	BQL	40	8
Iron	300	S	µg/L	BQL	BQL	BQL	60	8
Lead	15	AL	µg/L	BQL	0.31	BQL	0.29	3
Magnesium			mg/L	4.7	5.3	3.6	0.5	3
Manganese	50	S	µg/L	BQL	39	BQL	25	8
Mercury	2	P	µg/L	BQL	BQL	BQL	0.5	2
Nickel	100	P	µg/L	BQL	BQL	BQL	5	3
Potassium			mg/L	3.5	3.9	2.9	0.5	3
Selenium	50	P	µg/L	BQL	BQL	BQL	4	3
Silicon			mg/L	4	5	4	4	3
Silver	100	S	µg/L	BQL	BQL	BQL	0.5	3
Sodium			mg/L	13.3	24.5	6.7	5.0	8
Thallium	2	P	µg/L	BQL	BQL	BQL	2	3
Zinc	5000	S	µg/L	163	217	117	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