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

	Maximum	Cantonsinant					O. contitation	[, , [
Parameter	Contaminant Level	Contaminant Type ²	Units of Measure ³	Average	Max	l _{Min}	Quantitation Limit	# of Tests
Aggressive Index Number	Level	Турс	Units	11	12	10	-	16
1 - All 1: 1: B:			mg/L	43	58	27		16
Alkalinity, Carbonate			mg/L	0	0	0	-	16
Alkalinity, Hydroxyl			mg/L	0	0	0	<u> </u>	16
Alkalinity, Phenolphthalein			mg/L	0	0	0	<u> .</u>	16
Alkalinity, Total Bromate			mg/L	43	58	27	-	16
		ļP	μg/L mg/L	BQL BQL	BQL 0.01	BQL BQL	10 0.01	8 18
Carban Diavida			mg/L	4	9	0	<u> </u> <u>0.0.</u>	16
Carbon Dioxide Chemical Oxygen Demand			mg/L	BQL	7.3	BQL	5.0	4
Chloride	250.0	S	mg/L	33.4	55.7	22.3	5.0	16
Chlorine, Free			mg/L	1.0	3.7	0.0	0.0	16
Chlorine, Total			mg/L	4.0	5.2	3.3	0.0	16
Color	15	ļŞ.	Units	6	16	0	0	16
Dissolved Oxygen Fluoride	4 0/2 0	P/S	mg/L	8.8 0.9	13.5 1.2	4.0 0.6	0.0	16
Hardness, Calcium	4.0/2.0		mg/L mg/L	69	100	54	0.2	16 16
Hardness, Total			mg/L	88	110	71		16
Methylene Blue Activated Substances	0.5	s	mg/L	BQL	BQL	BQL	0.050	2
			mg/L	0.86	1.25	BQL	0.05	16
N, Nitrate (Nitrate as N)	10	<u>P</u>	mg/L	0.9	1.8	0.6	0.2	16
	1	P P S	mg/L	0.01	0.05	BQL	0.01	16
pH Phosphate as Phosphorous	6.5-8.5		Units	7.6 0.36	8.7 0.52	7.0 0.21	0.20	16
Solids, Fixed			mg/L mg/L	147	201	110	1 1	14
Solids, Total			mg/L	217	277	149	1	16
Solids, Total Dissolved	500	S	mg/L	166	200	138	1	16
Solids, Total Suspended			mg/L	BQL	1	BQL	1	16
Solids, Volatile			mg/L	70	92	49	1	12
Specific Conductivity			µmhos/cm		330	213	<u> </u>	16
Sulfate Taste	250.0	\$	mg/L Units	26.8 2	36.7 3	19.4 1	5.0	16 16
Temperature			°C	16.0	26.1	7.9		16
Threshold Odor Number	3	S	Units	10	40	3	1	16
Total Organic Carbon			mg/L	2.7	3.5	1.8	0.5	16
Turbidity	≤5	Р	NTU	0.30	0.65	0.15	0.00	16
Aluminum	50-200	S	µg/L	39	57	27	20	6
Antimony	6	P	ug/L	BQL	BQL	BQL	4	6.
Arsenic	50 2000	P P	μg/L	BQL 36	BQL 50	BQL 23	2 10	6
Barium Beryllium	4	 	μg/L μg/L	BQL	BQL	BQL	1.0	6
Cadmium	5	P P	μg/L	BQL	BQL	BQL	1	6
Calcium	l		mg/L	30.8	39.0	25.9	0.5	6
Chromium	100	P	μg/L	BQL	BQL	BQL	11	6
Copper	1300	AL	ug/L	BQL	BQL	BQL	40	16
Iron	300	S	μg/L	BQL	BQL	BQL	60	16
Lead Magnesium	15	AL	μg/L mg/L	BQL 4.6	0.46 5.4	BQL 3.4	0.29 0.5	6
Manganese	50	S	μg/L	BQL	BQL	BQL	25	16
Mercury	2	Р	μg/L	BQL	BQL	BQL	0.5	4
Nickel	100	P	µg/L	BQL	BQL	BQL	5	6
Potassium			mg/L	3.5	4.0	3.0	0.5	6
Selenium	50	P	ug/L	BQL	BQL	BQL	4	6
Silicon Silver	100		mg/L	4 BQL	5 BQL	4	4	6
Sodium	1,00		μg/L mg/L	14.4	25.7	BQL . 8.1	0 <u>.</u> 5 5.0	6 16
Thallium	2	P	μg/L	BQL	BQL	BQL	2	6
Zinc	5000	P S	μg/L	110	124	92	25	6
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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