

WATER QUALITY LABORATORY INORGANIC ANALYSES PERIOD OF 01/01/2004 TO 12/31/2004 Lorton Treatment Plants Finished Water

																	Quant	# OT
MCL ¹		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Limit	Tests
			11	11	11	11	11		11	11	11	11		11	11	10	-	18
	mg/L		33	25	32	49	58		64	64	50	52		47	65	21	-	18
	mg/L		0	14	0	0	0		0	0	0	0		2	28	0	-	18
	mg/L		0	0	0	0	0		0	0	0	0		0	0	0	-	18
	mg/L		0	7	0	0	0		0	0	0	0		1	14	0	-	18
	mg/L		33	39	32	49	58		64	64	50	52		49	65	29	-	18
10 P	μg/L	BQL			BQL			BQL			BQL			BQL	BQL	BQL	5	10
	mg/L		0.01	0.02	BQL	0.01	0.02		0.01	0.02	BQL	BQL		BQL	0.02	BQL	0.01	18
	mg/L		4	4	4	15	10		12	7	3	9		7	21	1	-	18
	mg/L		5.9				BQL							BQL	5.9	BQL	5.0	4
250.0 S	mg/L		81.3	44.1	31.5	30.9	33.8		38.2	37.4	28.3	32.5		39.8	81.7	28.1	5.0	18
	mg/L		0.1	0.2	4.5	3.8	4.4		0.3	0.3	0.0	0.3		1.5	4.5	0.0	0.0	18
	mg/L		3.7	4.5	4.5	4.0	4.5		3.1	4.3	3.7	3.8		4.0	4.8	2.3	0.0	18
15 S	Units		5	3	2	2	0		3	5	0			2	6	0	0	16
	mg/L		13.8	14.3	10.3	5.0	5.0		3.5	5.2	4.8	9.2		7.9	14.6	3.4	0.0	18
4.0/2.0 P/S	mg/L		0.8	0.6	0.8	1.1	1.0		1.4	1.2	1.1	0.7		1.0	1.6	0.2	0.2	18
	mg/L		70	67	62	73	94		99	92	76	80		79	99	60	-	18
	mg/L		90	82	77	103	109		120	114	97			99	120	70	-	16
0.5 S	mg/L					BQL								BQL	BQL	BQL	0.050	2
	mg/L		1.30	0.86		BQL	0.10		1.13	1.12	1.29			0.83	1.37	BQL	0.05	14
10 P	mg/L		1.1	1.0	0.8	1.0	1.5		1.0	1.2	1.0	1.3		1.1	1.5	0.8	0.2	18
1 P	mg/L		0.03	0.02	BQL	BQL	BQL		BQL	BQL	BQL	BQL		BQL	0.03	BQL	0.01	18
6.5-8.5 S	Units		7.4	7.2	7.3	6.9	7.1		7.1	7.3	7.6	7.1		7.2	7.7	6.6	-	18
	mg/L		0.64	0.55	0.34	0.38	0.39		0.38	0.31	0.44	0.44		0.43	0.80	0.25	0.20	18
	mg/L		172	150	116	158	173		184	193	145	170		162	199	106	1	18
	mg/L		266	229	217	249	296		296	250	220	252		253	303	173	1	18
500 S	mg/L		192	171	132	130	204		209	215	140	143		170	223	83	1	18
	mg/L		1	BQL	BQL	BQL	BQL		2	1	BQL	BQL		BQL	3	BQL	1	18
	mg/L		94	79	101	91	124		112	57	75			91	131	27	1	16
	µmhos/cm		367	285	191	265	314		340	321	266	277		292	368	186	0	18
250.0 S	mg/L		23.1	26.8	20.9	28.0	37.9		40.6	39.4	27.6	33.1		30.8	41.8	19.9	5.0	18
	Units		3	3	4	3	2		3	2	2	2		2	4	2	1	17
	°C		6.2	10.8	15.1	19.9	22.8		24.4	21.5	17.1	13.3		16.8	24.9	5.9	-	18
3 S	Units		11	6	20	10	8		3	7	5	4		8	25	1	1	18
	mg/L		2.7	1.5	2.0	2.2	1.9		2.0	2.3	2.7	2.7		2.2	2.8	1.5	0.5	18
≤5 P	NTU		0.50	0.55	0.23	0.33	0.23		0.70	0.60	0.23	0.15		0.39	1.00	0.10	0.00	18
	10 P 250.0 S 15 S 4.0/2.0 P/S 3 0.5 S 10 P 1 P 6.5-8.5 S 500 S 250.0 S	Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Units mg/L	Units 11 mg/L 33 mg/L 0 mg/L 4 mg/L 4 mg/L 5.9 250.0 S mg/L 3.7 15 S Units 5 mg/L 13.8 mg/L 0.8 mg/L 0.8 mg/L 0.8 mg/L 0.8 mg/L 0.8 mg/L 0.9 mg/L 1.30 10 P mg/L 1.30 10 P mg/L 1.30 10 P mg/L 1.1 1 P mg/L 0.03 6.5-8.5 S Units 7.4 mg/L 0.64 mg/L 1.72 mg/L 266 500 S mg/L 1.92 mg/L 1.92 mg/L 94 µmhos/cm 367 250.0 S mg/L 23.1 Units 3 °C 6.2 3 S Units 11 mg/L 2.7	Units	Units 11 11 11 11 mg/L 33 25 32 mg/L 0 14 0 mg/L 0 0 0 0 mg/L 0 7 0 mg/L 33 39 32 10 P µg/L BQL BQL mg/L 5.9 BQL mg/L 5.9 BQL mg/L 5.9 BQL mg/L 5.9 BQL mg/L 3.7 4.5 4.5 4.5 15 S Units 5 3 2 mg/L 13.8 14.3 10.3 4.0/2.0 P/S mg/L 0.8 0.6 0.8 mg/L 0.8 0.6 0.8 mg/L 90 82 77 mg/L 1.30 0.86 mg/L 1.30 0.86 mg/L 1.30 0.86 mg/L 1.30 0.86 mg/L 1.30 0.02 BQL 6.5-8.5 S Units 7.4 7.2 7.3 mg/L 0.64 0.55 0.34 mg/L 172 150 116 mg/L 266 229 217 500 S mg/L 192 171 132 mg/L 194 79 101 µmhos/cm 367 285 191 250.0 S mg/L 1 BQL BQL mg/L 1 BQL BQL mg/L 1 1 6 20 mg/L 1 6 20 mg/L 1 6 20 mg/L 2.7 1.5 2.0	Units 11 11 11 11 11 11 mg/L 33 25 32 49 mg/L 0 14 0 0 mg/L 0 0 0 0 0 0 mg/L 0 0 7 0 0 0 mg/L 33 39 32 49 mg/L 81 33 39 32 49 mg/L 81 33 39 32 49 mg/L 0.01 0.02 BQL 0.01 mg/L 4 4 4 4 15 mg/L 5.9 250.0 S mg/L 0.1 0.2 4.5 3.8 mg/L 3.7 4.5 4.5 4.0 15 S Units 5 3 2 2 mg/L 13.8 14.3 10.3 5.0 4.0/2.0 P/S mg/L 0.8 0.6 0.8 1.1 mg/L 70 67 62 73 mg/L 90 82 77 103 mg/L 90 82 77 103 mg/L 1.30 0.86 BQL mg/L 1.30 0.86 BQL 10 P mg/L 1.1 1.0 0.8 1.0 1P mg/L 1.1 1.0 0.8 1.0 1P mg/L 0.03 0.02 BQL BQL 6.5-8.5 S Units 7.4 7.2 7.3 6.9 mg/L 16.6 0.55 0.34 0.38 mg/L 172 150 116 158 mg/L 166 229 217 249 500 S mg/L 192 171 132 130 mg/L 194 79 101 91 mg/L 194 79 101 91 mg/L 94 79 101 91 mg/L 136 20 10 mg/L 23.1 26.8 20.9 28.0 Units 3 3 3 4 3 3 °C 6.2 10.8 15.1 19.9 3 S Units 11 6 20 10 mg/L 2.7 1.5 2.0 2.2	Units 11 11 11 11 11 mg/L 33 25 32 49 58 mg/L 0 14 0 0 0 0 mg/L 0 0 0 0 0 0 0 0	Units 11 11 11 11 11 11 11 11 11 11 11	Units	Units Units	MCL						

Monthly result composed from an average of parameter results for Lorton Treatment Plant finished water points of entry to distribution system.

Quant # of

BQL = The lowest quantitation limit of all analyses for the particular parameter, Below Quantitation Limit.

Environmental Protection Agency/Virginia Department of Health established levels for drinking water

P=Primary-enforceable, S=Secondary-non-enforceable, AL=Action Level on specific taps, MCL=Maximum Contaminant Level.

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



WATER QUALITY LABORATORY METAL ANALYSES

PERIOD OF 01/01/2004 TO 12/31/2004 Lorton Treatment Plants Finished Water

		_																Quant	# of
Parameter	MCL ¹	Units ²	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Limit	Tests
Aluminum	50-200 S	μg/L		174			35			37					82	212	27	20	6
Antimony	6 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	4	6
Arsenic	50 P	μg/L					BQL			BQL					BQL	BQL	BQL	2	4
Barium	2000 P	μg/L		55						50					52	56	47	10	4
Beryllium	4 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	1	6
Cadmium	5 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	1	6
Calcium		mg/L		28.1			34.5			37.7			31.8		33.0	38.4	27.1	0.5	8
Chromium	100 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	1	6
Copper	1300 AL	μg/L		BQL	BQL	BQL	BQL	BQL		BQL	BQL	BQL	BQL		BQL	BQL	BQL	40	18
Iron	300 S	μg/L		BQL	BQL	BQL	BQL	BQL		BQL	BQL	BQL	BQL		BQL	BQL	BQL	60	18
Lead	15 AL	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	0.29	6
Magnesium		mg/L		5.1			5.4			5.9					5.5	5.9	4.9	0.5	6
Manganese	50 S	μg/L		BQL	BQL	BQL	BQL	BQL		BQL	BQL	BQL	BQL		BQL	BQL	BQL	25	18
Mercury	2 P	μg/L		BQL			BQL								BQL	BQL	BQL	0.5	4
Nickel	100 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	5	6
Potassium		mg/L		3.8			2.7			4.1					3.5	4.1	2.7	0.5	6
Selenium	50 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	4	6
Silicon		mg/L		BQL			BQL			5					BQL	5	BQL	4	6
Silver	100 S	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	0.5	6
Sodium		mg/L		37.3	19.4	12.7	14.2	18.5		20.1	20.2	13.7	16.1		19.1	37.4	12.6	5.0	18
Thallium	2 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	1	6
Zinc	5000 S	μg/L		151			130			155					145	181	110	25	6

Monthly result composed from an average of parameter results for Lorton Treatment Plant finished water points of entry to distribution system.

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Environmental Protection Agency/Virginia Department of Health established levels for drinking water

Particular parameter, Below Quantitation Limit.

P=Primary-enforceable, S=Secondary-non-enforceable, AL=Action Level on specific taps, MCL=Maximum Contaminant Level.