CITY OF ROME

TANNERY ROAD LANDFILL

2003 ANNUAL REPORT

Prepared for:

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FEBRUARY 2004

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1.0 INTRODUCTION

This document presents the 2003 annual report for the post closure operations, including maintenance and monitoring activities for the closed City of Rome Landfill located on Tannery Road in the City of Rome, Oneida County, New York. Final closure of the landfill was completed in September 1997 and in January 1999 the New York State Department of Environmental Conservation (NYSDEC) approved the closure certification report.

The post closure maintenance and monitoring activities were performed pursuant to the Operation, Maintenance and Monitoring Plan (Revised October 19, 1999) that was approved by the NYSDEC. This annual report covers the period from February 2003 through January 2004.

Pursuant to the approved Operation, Maintenance and Monitoring Plan (O&M), this annual report provides the following information:

- The results of all ground water and leachate quality analytical data.
- The amount of ground water/leachate collected from the recovery wells.
- Water level monitoring and ground water contour maps for March, June, September and December 2003.
- Monthly Inspection Data.

Pursuant to a request by the New York State Department of Environmental Conservation, an off-site investigation was conducted in 2003. This investigation consisted of a reconnaissance of the landfill area and adjacent properties for the presence of ground water seeps. Aqueous and sediment samples from selected seeps and from Canada Creek were collected and submitted for laboratory analysis. A report on the results of this investigation has been submitted to the City of Rome and the New York State Department of Environmental Conservation under separate cover.

2.0 GROUND WATER AND LEACHTE ANALYTICAL DATA

Ground water samples were collected in March, June, September and December from monitoring wells MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-7D and groundwater/leachate wells MW-10 and MW-12. The September and December samples were analyzed for the NYSDEC Part 360 Routine parameters. The samples collected in June 2003 were analyzed for the Part 360 baseline parameters. Pursuant to the September 2002 Off-Site Investigation work plan approved by NYSDEC, ground water samples were also collected from monitoring wells MW-1D, MW-2S, MW-2I(DPS), MW-2D and MW-7S during the March 2003 monitoring event. All samples collected in March 2003 were analyzed for the Part 360 Routine Parameters and the NYSDEC Target Compound List volatile organic compounds. Ground water sample collection was performed following the procedures specified in the NYSDEC approved O&M manual.

Analytical results have been previously submitted to the NYSDEC in the quarterly monitoring reports. Tables summarizing the analytical data for each monitoring well from March 1999 to

present are provided in Appendix A. Concentrations that exceeded the New York State ground water standard are presented in a bold font.

The ground water analytical data from 2003 demonstrates that ground water in the vicinity of monitoring wells MW-3S, MW-4S and MW-7D continue to exhibit elevated concentrations of landfill related constituents. Ground water from monitoring wells MW-3S, MW-4S and MW-7D continue to consistently exhibit ammonia concentrations above the ground water standard and upgradient MW-9S concentrations. Ground water from monitoring well MW-7D continues to exhibit benzene and xylene concentrations that are above the respective ground water standards.

Times series concentration graphs of several leachate indicator parameters (alkalinity, ammonia, boron, chloride, iron, potassium, sodium, TDS) for each monitoring well are provided in Appendix C. The time series trend graphs indicate a decreasing trend in the MW-3S ground water concentrations of alkalinity, boron, chloride, iron, potassium, sodium and TDS. Data indicate that implementation of the procedures stipulated in the Record of Decision have resulted in an improvement in the ground water quality in the vicinity of monitoring well MW-3S.

3.0 GROUND WATER ELEVATION DATA

Consistent with the O&M plan, ground water elevation data were measured monthly from monitoring wells MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-7S, MW-9S, piezometer PZ-1 and leachate wells MW-10, MW-11 and MW-12. A summary of the 2003 ground water elevation data is provided in Table 1. Ground water contour maps for March, June, September and December 2003 have been provided in the quarterly ground water monitoring reports. Graphs depicting ground water elevations over time for each monitoring well are provided in Appendix C.

Monitoring well MW-9S has been considered upgradient of the landfill. However, historical ground water elevation data indicate that there are periods when the ground water level elevation in MW-9S are lower than the water level elevation in landfill leachate wells MW-10 and MW-12 and lower than the ground water elevation in monitoring well MW-3. Monitoring well MW-9S is located at a greater distance in an upgradient direction from the landfill than any other monitoring well, and would be expected to exhibit less of a landfill related impact on ground water quality, if any, than any other landfill monitoring well. Therefore, for the purpose of comparing ground water analytical results, ground water data from monitoring well MW-9S has been considered representative background conditions.

The ground water elevation data indicate that from January 2003 through January 2004, ground water elevations from monitoring wells MW-3S and MW-9S were higher than the leachate well MW-10 elevations, indicating an inward gradient. With the exception of the ground water elevation measured in September 2003, all ground water elevations from monitoring wells MW-4S and MW-5S between January 2003 and January 2004 were higher than the MW-10 elevations, indicating an inward gradient during almost the entire year. The elevation data for monitoring well MW-2S demonstrates that during most of 2003 there was an inward gradient in the vicinity of monitoring well MW-2S. Ground water elevations in monitoring wells MW-1S, MW-7S and MW-7D continue to be lower than the MW-12 landfill leachate monitoring well, indicating a continuing outward gradient.

The time series water elevation graph for leachate well MW-12 indicate that the water level elevation in the well has decreased from pre-closure elevations and shows an overall decreasing trend in the water level elevation in this part of the landfill. The data from wells MW-10 and MW-11 indicate that water level elevations in the vicinity of these wells remained consistent through 2003. A linear trend line has been plotted on each graph.

The trend line for the ground water monitoring wells outside the landfill indicate that ground water elevations outside the landfill have not significantly changed, which indicates that the overall decreasing trend in leachate well MW-12 elevations is not related to a decrease in precipitation. The data indicate that the four leachate recovery wells have reduced the volume of leachate in the landfill and reduced the overall head difference between the landfill and the monitoring wells located outside the slurry/sheet pile wall.

4.0 SITE INSPECTIONS

4.1 Weekly Site Inspections

Weekly landfill inspections were performed by City of Rome personnel in accordance with the procedures detailed in the O&M manual. The weekly inspections included evaluation of the ground water/leachate pumping operation and general site security.

4.2 Monthly Inspections

Delaware Engineering performed monthly landfill inspections. The inspections included general review of landfill cap conditions, general site conditions, evaluation and recording of data for the ground water/leachate pumping system, collection of ground water levels and operability of the landfill flares and passive gas vents. In March, June, September and December, ground water samples were collected and submitted for analysis as discussed in Section 2.0. The annual gas vent inspection and hydrogen sulfide measurements were conducted on August 30, 2003. Copies of the completed inspection forms are provided in Appendix D.

5.0 GROUND WATER / LEACHATE PUMPING SYSTEM

For each recovery well, readings from the flow totalizers in the meter pit were recorded during the monthly inspections. Leachate flows for each recovery well for the period from January 16, 2003 to January 29, 2004 are presented below. A summary of the monthly leachate pumping volumes is provided in Table 2.

RW-1	487,500 gallons
RW-2	1,040,800 gallons
RW-3	632,900 gallons
RW-4	1,497,400 gallons
Total Gallons	3,658,600

A summary of the total gallons of leachate that have been pumped from the landfill since 1998 is provided in the following table.

YEAR	RW-1	RW-2	RW-3	RW-4	TOTAL
1998 (To 12/18/98)	998,300	1,403,300	366,300	328,900	3,096,800
1999 (12/18/98 to 12/20/99	822,193	1,334,300	318,500	141,000	2,615,993
2000 (12/20/99 to1/12/01	724,800	1,351,300	223,200	0	2,299,300
2001 (1/12/01 to 1/16/02)	596,400	1,179,900	297,500	0	2,073,800
2002 (1/16/02 to 1/9/03)	515,900	1,025,600	414,400	299,300	2,255,200
2003 (1/9/03 to 1/29/04)	487,500	1,040,800	632,900	1,497,400	3,658,600
Total	**4,145,093**	**7,335,200**	**2,252,800**	**2,266,600**	**15,999,693**

The data provided in the preceding table shows that prior to 2003, recovery well RW-4 was not functionally operational. The repairs and modifications to RW-4 that were conducted in 2002 have significantly increased the quantity of leachate pumped from this well. The total volume of leachate pumped from the landfill in 2004 is the highest volume since pumping began in 1998. The increase in leachate pumped from recover well RW-4 may over time facilitate a reduction in the leachate/ground water elevation in the landfill and result in an improvement in controlling the movement of leachate away from the landfill.

6.0 RECOMMENDATIONS

As discussed in Section 3.0, ground water from monitoring wells MW-3S, MW-4S and MW-7S have continue to exhibit ammonia concentrations that exceed both the NYSDEC ground water standards and upgradient MW-9S concentrations. Ground water quality adjacent to the landfill has been adequately characterized. The landfill has been capped and leachate is actively pumped from the waste mass via the on-site recovery wells. Ground water quality is not expected to significantly change on a quarterly basis. Therefore, semi-annual collection and analysis of ground water from the on-site monitoring wells would provide adequate ground water monitoring. Pursuant to the findings of the off-site investigation, monitoring well MW-2D would be added to the ground water monitoring program.

The City of Rome requests that NYSDEC approve a reduction in ground water monitoring to semi-annual (April and October). On an alternating basis, samples collected during one of the semi-annual events would be analyzed for the Part 360 baseline parameters and the samples from the other monitoring event would be analyzed for the Part 360 routine parameters. Ground water elevation data would continue to be obtained on a monthly basis.

TABLES

Table 1

Water Level Elevation Data, Comparisons to MW-10 and MW-12
Tannery Road Landfill
Rome, New York

WELL	MEASURING POIN	DEPTH TO WATER (FT.)											
	ELEVATION (FT.)	1/9/03	2/28/03	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004
MW-1S	449.59	4.64	5.01	5.17	5.18	4.49	5.25	6.75	6.6	7.48	6.1	4.87	4.86	5.77
MW-2S	459.44	6.83	6.84	7.29	7.67	6.39	7.29	9.06	8.25	9.65	7.78	6.54	6.71	8.21
MW-3S	456.4	3.52	Frozen	Frozen	3.93	3.46	3.81	4.66	4.3	4.9	3.38	3.51	3.6	3.97
MW-4S	456.19	3.92	3.85	3.91	4.03	3.70	3.87	4.6	4.43	5.5	3.95	3.83	3.81	4.18
MW-5S	457.15	4.3	4.39	4.6	4.86	4.21	4.7	5.79	5.31	6.99	4.66	4.36	4.16	5.1
MW-7S	452.25	8.82	8.46	8.53	7.62	7.46	7.71	8.92	9.3	10.61	9.91	8.44	7.81	8.31
MW-9S	456.38	3.83	3.87	3.95	4.1	3.80	3.93	4.55	4.27	4.77	3.76	3.76	3.72	3.98
MW-10	486.3	34.89	35.12	35.05	35.05	34.83	35.02	35.11	35.12	35.57	34.65	35.11	34.11	NA
MW-11	502.4	51.96	52.18	52.19	52.03	51.89	51.97	52.57	52.14	52.37	51.79	52.18	52.02	51.97
MW-12	483.11	32.76	32.77	32.79	32.38	32.28	32.36	32.59	32.81	33.19	32.77	32.87	32.48	32.46
PZ-1	454.37	5.78	6.18	6.53	6.37	5.66	6.6	8.14	8.12	9.18	7.77	5.58	5.81	6.95
MW-7D	451.79			8.91	7.49	7.45	7.88	9.05	9.49	10.57	9.73		7.98	

WELL	WATER LEVEL ELEVATION (FT.)											
	1/9/03	2/28/03	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004
MW-1S	444.95	444.58	444.42	444.41	445.10	444.34	442.84	442.99	442.11	443.49	444.72	444.73	443.82
MW-2S	452.61	452.6	452.15	451.77	453.05	452.15	450.38	451.19	449.79	451.66	452.9	452.73	451.23
MW-3S	452.88	Frozen	Frozen	452.47	452.94	452.59	451.74	452.1	451.5	453.02	452.89	452.8	452.43
MW-4S	452.27	452.34	452.28	452.16	452.49	452.32	451.59	451.76	450.69	452.24	452.36	452.38	452.01
MW-5S	452.85	452.76	452.55	452.29	452.94	452.45	451.36	451.84	450.16	452.49	452.79	452.99	452.05
MW-7S	443.43	443.79	443.72	444.63	444.79	444.54	443.33	442.95	441.64	442.34	443.81	444.44	443.94
MW-9S	452.55	452.51	452.43	452.28	452.58	452.45	451.83	452.11	451.61	452.6	452.62	452.68	452.4
MW-10	451.41	451.18	451.25	451.25	451.47	451.28	451.19	451.18	450.73	451.65	451.19	452.19	NR
MW-11	450.44	450.22	450.21	450.37	450.51	450.43	449.83	450.26	450.03	450.61	450.22	450.38	450.43
MW-12	450.35	450.34	450.32	450.73	450.83	450.75	450.52	450.3	449.92	450.34	450.24	450.63	450.65
PZ-1	448.59	448.19	447.84	448	448.69	447.77	446.23	446.25	445.19	446.6	448.79	448.56	447.42
MW-7D			442.88	444.3	444.34	443.91	442.74	442.3	441.22	442.06		443.81	

WELL	WATER LEVEL ELEVATION DIFFERENCE (FT.) RELATIVE TO MW-12 [2]											
	1/9/03	2/28/03	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004
MW-1S	5.4	5.76	5.9	6.32	5.73	6.41	7.68	7.31	7.81	6.85	5.52	5.9	6.83
MW-2S	-2.26	-2.26	-1.83	-1.04	-2.22	-1.4	0.14	-0.89	0.13	-1.32	-2.66	-2.1	-0.58
MW-3S	-2.53	Frozen	Frozen	-1.74	-2.11	-1.84	-1.22	-1.8	-1.58	-2.68	-2.65	-2.17	-1.78
MW-4S	-1.92	-2	-1.96	-1.43	-1.66	-1.57	-1.07	-1.46	-0.77	-1.9	-2.12	-1.75	-1.36
MW-5S	-2.5	-2.42	-2.23	-1.56	-2.11	-1.7	-0.84	-1.54	-0.24	-2.15	-2.55	-2.36	-1.4
MW-7S	6.92	6.55	6.6	6.1	6.04	6.21	7.19	7.35	8.28	8	6.43	6.19	6.71
MW-9S	-2.2	-2.17	-2.11	-1.55	-1.75	-1.7	-1.31	-1.81	-1.69	-2.26	-2.38	-2.03	-1.75
MW-10	-1.06	-0.84	-0.93	-0.52	-0.64	-0.53	-0.67	-0.88	-0.81	-1.81	-0.95	-1.56	NA
MW-11	-0.09	0.12	0.11	0.36	0.32	0.32	0.69	0.04	-0.11	-0.27	0.02	0.25	0.22
MW-12	0	0	0	0	0	0	0	0	0	0	0	0	0
PZ-1	1.76	2.15	2.48	2.73	2.14	2.98	4.29	4.05	4.73	3.74	1.45	2.07	3.23
MW-7D			7.44	6.43	6.49	6.84	7.78	8	8.7	8.28		6.82	

WELL	WATER LEVEL ELEVATION DIFFERENCE (FT.) RELATIVE TO MW-10 [2]											
	1/9/03	2/28/03	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004
MW-1S	6.46	6.60	6.83	6.84	8.37	6.94	8.35	8.19	8.62	8.16	6.47	7.46	NA
MW-2S	-1.20	-1.42	-0.90	-0.52	-1.58	-0.87	0.81	-0.01	0.94	-0.01	-1.71	-0.54	NA
MW-3S	-1.47	Frozen	Frozen	-1.22	-1.47	-1.31	-0.55	-0.92	-0.77	-1.37	-1.70	-0.61	NA
MW-4S	-0.86	-1.16	-1.03	-0.91	-1.02	-1.04	-0.40	-0.58	0.04	-0.59	-1.17	-0.19	NA
MW-5S	-1.44	-1.58	-1.30	-1.04	-1.47	-1.17	-0.17	-0.66	0.57	-0.84	-1.60	-0.80	NA
MW-7S	7.98	7.39	7.53	6.62	6.68	6.74	7.86	8.23	9.09	9.31	7.38	7.75	NA
MW-9S	-1.14	-1.33	-1.18	-1.03	-1.11	-1.17	-0.64	-0.93	-0.88	-0.95	-1.43	-0.47	NA
PZ-1	2.82	2.99	3.41	3.25	2.78	3.51	4.96	4.93	5.54	5.05	2.40	3.63	NA
MW-7D			8.37	6.95	7.13	7.37	8.45	8.88	9.51	9.59		8.38	

Notes:

1) Water levels were collected from one upgradient monitoring well (MW-9S), six downgradient wells (MW-1S, MW-2S, MW-3S, MW-4S, MW-5S and MW-7S), one downgradient piezometer (PZ-1) and three leachate monitoring wells (MW-10), (MW-11), (MW-12).

2) A negative number indicates an inward gradient.

3) NA indicates monitoring well MW-10 wasnot accessible due to frozen conditions

Table 2
Operational Data Summary
Tannery Road Landfill
Rome, New York

Pump Station at Tannery Road
Hour Meters

	01/09/03	2/28/03	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	Total Hours Operated 1/09/2003 - 9/17/2003
Pump #1	32,549	33,629	33,898	35,123	35,833	36,513	37,008	37,646	38,131	38,672	39,178	40,249	41,356	8,807
Pump #2	28,165	29,061	29,284	30,304	30,886	31,453	31,863	32,388	32,751	33,161	33,547	34,367	35,225	7,060

Totalizers in Meter Pit

	01/09/03	2/28/03	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	Total Flow (Gallons) 1/09/2003 - 9/17/2003
RW-1	3,652,300	3,718,200	3,733,800	3,798,200	3,835,400	3,870,700	3,897,100	3,942,300	3,975,400	4,009,300	4,034,800	4,085,300	4,139,800	487,500
RW-2	6,294,400	6,431,700	6,465,000	6,601,800	6,680,900	6,755,600	6,812,100	6,906,600	6,977,300	7,050,400	7,106,100	7,216,200	7,335,200	1,040,800
RW-3	1,619,900	1,720,200	1,738,100	1,823,000	1,894,100	1,934,300	1,959,400	1,961,400	1,975,900	2,028,100	2,066,000	2,164,200	2,252,800	632,900
RW-4	769,200	953,100	998,300	1,207,200	1,405,100	1,582,100	1,703,600	1,808,100	1,836,600	1,881,800	1,924,000	2,080,800	2,266,600	1,497,400
Total														3,658,600

Hour Meters

	01/09/03	2/28/03	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	Total Hours Operated 1/09/2003 - 9/17/2003
RW-1	100,780	102,467	102,870	104,531	105,498	106,402	107,085	108,412	109,348	110,345	111,095	112,592	114,176	13,396
RW-2	106,368	108,370	108,859	110,859	112,042	113,162	114,033	115,502	116,615	117,769	118,645	120,430	122,335	15,967
RW-3	215,128	227,092	229,983	240,539	247,369	253,865	258,842	260,161	261,744	268,434	273,464	283,235	293,761	78,633
RW-4	53,572	63,576	66,467	78,284	85,168	91,680	96,657	105,247	111,713	118,404	123,434	133,205	143,731	90,159

APPENDIX A

ANALYTICAL DATA SUMMARY TABLES

City of Rome
Tannery Road Landfill
Monitoring Well MW-1S
Ground Water Analtyical Data

Date	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/2003	NYSDEC Ground Water Standard
Field Parameter																					
Conductivity (µmhos/cm)	31	103	398	89	39	39	31	23	23	34	62	37	75	67	190	58	376	21	180	20	NS
pH (s.u.)	8.64	5.97	6.37	7	5.85	7.88	6.45	5.27	6.18	4.95	5.89	6.23	7.7	6.5	7.42		7.5	4.9	6.24	6.5	6.5 - 8.5
Temperature (deg C)	3.2	13.3	15.2	5.9	4.2	13	15.3		3.9	14.7	14.8	6.7	6	12.5	13.7	5.3	7.2	13	13.6	6	NS
Turbidity (NTU)	785	925	560	140	222	161	527	195	316	186	88	90	145	68	126	8	65	556	52	50	5
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	<0.5	<0.5	2	<0.3	<0.3	<0.030	<0.030	<0.030	0.073	<0.030	0.089	<0.030	<0.030	<0.030	1.1	<0.030	0.14	<0.03	0.38	<0.03	2
Biochemical Oxygen Demand (BOD5) (mg/L)	8	<4.0	<2.0	2	<2.0	30	<2.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	12	<4.0	8.6	<4	<4.0	<4	NS
Bromide (mg/L)	<0.2	<2.0	<2.0	<2.0	<2.0	2.5	<0.010	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.12	<0.100	<0.1	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	52	100	25	14	12	6.7	96	19	36	26	34	14	24	45	66	9.9	<1.0	33	25	35	NS
Chloride (mg/L)	<1.0	31	28	3.7	2.3	450	3.3	2.5	2.9	2.4	3.8	2.5	2.7	2.7	6.4	2.6	36	3.8	8.2	2.5	250
Color (Pt-Co)		46					30					50	20					8			15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.4	0.3	0.18	0.1	<0.100	0.15	0.15	0.16	<0.100	0.15	<0.100	0.13	0.14	<0.1	0.15	<0.1	<0.1	10
Sulfate (mg/L)	5	10	94	9.8	7.7	4.7	9.7	6.9	6.7	6.8	17	6.2	7	6	13	6.2	<1.0	7.9	15	6.9	250
Total Alkalinity (mg/L)	<10.0	37	84	7.8	9	1.9	15	1.2	1.4	2	12	1.9	<1.0	4	64	4	170	4	37	<1	NS
Total Cyanide (mg/L)		<0.010					<0.010					<0.010	<0.010					<0.01			0.2
Total Dissolved Solids (mg/L)	140	140	260	39	30	1,900	26	<4.0	14	56	190	<4.0	170	26	120	42	280	30	120	34	500
Total Hardness (mg/L)	19	120	136	14	23	8	16	7.7	10	8.6	20	9.8	6.6	7.3	60	7.6	210	12	58	<7	NS
Total Kjeldahl Nitrogen (mg/L)	<0.5	2.4	1.3	<0.3	0.6	0.3	1.3	0.39	0.62	0.62	0.6	0.23	0.13	0.42	1.7	0.25	<0.1	0.27	0.58	0.34	NS
Total Organic Carbon (mg/L)	14	34	7	7.8	15.3	4.4	29	5.5	16	11	13	11.3	8.3	14	26	10	5.5	5.6	10	14	NS
Total Phenols (mg/L)	<0.005	<0.005	<0.001	0.004	0.001	<0.002	0.007	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	0.012	0.003	<0.002	0.0046	<0.002	<0.002	0.0034	0.001
Part 360 Routine Metals																					
Boron (mg/L)		<0.100				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	3.26	29.1	43.2	4.2	6.7	1.5	3.1	1.4	1.9	1.7	5.7	2.2	1	1.3	18	1.4	62	3.4	18	<1	NS
Iron (mg/L)	16.3	30.5	33.1	3.1	4.3	1.9	17	6.3	8.8	5.6	7.8	3.2	4.5	4.7	50	7.2	2	2.8	8.1	2.7	0.3*
Lead (mg/L)	0.012	0.029	0.01	<0.005	<0.005	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<1.0	<0.010	<0.010	0.02	<0.010	<0.01	<0.01	0.012	<0.01	0.025
Magnesium (mg/L)	2.7	11.2	6.8	0.94	1.5	<1.0	2	1	1.3	1	1.5	<1.0	<1.0	<1.0	3.9	<1.0	14	<1.0	3.3	<1	35 (GV)
Manganese (mg/L)	0.257	0.759	1.2	0.17	0.12	0.04	0.23	0.075	0.11	0.093	0.19	0.07	0.11	0.069	0.74	0.045	0.23	0.06	0.45	0.031	0.3*
Potassium (mg/L)	1.99	5.39	2.9	0.7	3.3	<1.0	1.2	<1.0	1.1	<1.0	1.2	<1.0	<1.0	<1.0	3.1	<1.0	1.2	<1.0	2.7	<1	NS
Sodium (mg/L)	1.2	12.2	9.9	1.8	8.8	1.6	1.2	<1.0	1.2	<1.0	7.5	1.2	2.8	<1.0	4.9	<1.0	12	1.7	12	<1	20
Part 360 Additional Baseline Metals																					
Aluminum (mg/L)		32					25					5	8.9					3			NS
Antimony (mg/L)		<0.015					0.012					<0.010	<0.010					<0.01			0.003
Arsenic (mg/L)		0.018					<0.010					<0.010	<0.010					0.013			0.025
Barium (mg/L)		0.431					<0.2					<0.2	<0.2					<0.2			1
Beryllium (mg/L)		<0.003					<0.010					<0.010	<0.010					<0.01			0.003 (GV)
Chromium (mg/L)		0.047					0.01					<0.010	<0.010					<0.01			0.05
Chromium, Hexavalent (mg/L)		<0.010					<0.010					<0.010	<0.010					<0.01			0.05
Cobalt (mg/L)		<0.020					<0.010					<0.010	<0.010					<0.01			NS
Copper (mg/L)		0.041					0.022					<0.010	<0.010					0.012			0.2
Mercury (mg/L)		<0.0002					0.00053					<0.0002	0.000300					<0.0002			0.0007
Nickel (mg/L)		0.039					0.012					<0.010	<0.010					<0.01			0.1
Selenium (mg/L)		<0.005					<0.010					<0.010	<0.010					<0.01			0.01
Silver (mg/L)		<0.010					<0.010					<0.010	<0.010					<0.01			0.05
Thallium (mg/L)		<0.010					<0.010					<0.010	<0.010					<0.01			0.0005 (GV)
Vanadium (mg/L)		0.031					0.012					<0.010	<0.010					<0.01			NS
Zinc (mg/L)		0.149					0.1					0.04	0.033					0.094			2
Part 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,1,1-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0			<5		<5			5
1,1,2,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0			<5		<5			5
1,1,2-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0			<5		<5			1
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0			<5		<5			5
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0			<5		<5			5

City of Rome
Tannery Road Landfill
Monitoring Well MW-1S
Ground Water Analtyical Data

Date	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/2003	NYSDEC Ground Water Standard
1,2,3-Trichloropropane (µg/L)												<5.0	<5.0					<5			0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,3-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0								3
1,4-Dichloro-2-butene (µg/L)		<10.0					<5.0					<10.0	<10.0								5
1,4-Dichlorobenzene (µg/L)		<5.0					<10.0					<10.0	<10.0					<5			3
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<20.0	<20.0				<10	<10			NS
Acetone (µg/L)		<10.0					<20.0					<5.0	<5.0				11	<10			50 (GV)
Acrylonitrile (µg/L)		<100					<5.0					<5.0	<5.0					<20			5
Benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Bromodichloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Carbon disulfide (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Dibromomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<5			5
Ethyl benzene (µg/L)		<5.0					<10.0					<10.0	<10.0				<5	<5			5
Iodomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<10			5
Methylene Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<10	<10			5
Styrene (µg/L)							<5					<5	<5				<5	<5			5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
trans-1,3-Dichloropropene (µg/L)		<5.0					<50.0					<50.0	<10.0				<5	<5			0.4**
trans-1,4-Dichloro-2-bntene (µg/L)							<50					<50	<10					<10			5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20			NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			2
Xylenes (Total) (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,2-Dichloroethene - Total																	<5				

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-3S
Ground Water Analytical Data

Parameter	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/03	NYSDEC Ground Water Standards
Field Parameters																					
Conductivity (μmhos/cm)	4,440	3,980	3,690	3,270	3,800	3,650	3,370	3,390	3,130	2,870	2,150	2,680	2,390	1,600	1,250	1,490	Frozen	1,140	1,150	1,000	NS
pH (s.u.)	6.58	6.82	6.74	6.36	6.65	6.92	6.63	6.59	6.42	6.3	6.68	6.71	6.46	6.83	8.2		Frozen	6.83	6.98	7.1	6.5 - 8.5
Temperature (deg C)	6.4	141	15.6	7.1	5.5	11.3	15.1	6.4	5	14	12.5	7.6	6.2	11.1	15.2	6.6	Frozen	12.1	15	7	NS
Turbidity (NTU)	88	482	357	167	77	78	132	49	35	31	56	42	32		14	0	Frozen	109	60	70	5
Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)		75	89	84	120	120	160	130	130	110	95	130	120	82	53	78	Frozen	78	72	75	2
Biochemical Oxygen Demand (BOD5) (mg/L)	18	35	28	28	34	16	31	30		24	16	12	11	<10	35	<10	Frozen	14	<4.0	17	NS
Bromide (mg/L)	0.9	<2	<2	4	3.8	0.12	3	1.6	1.2	1.1	0.5	0.79	0.52	0.15	0.11	0.14	Frozen	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	930	320	<1	310	420	430	550	410	350	180	410	230	220	150	110	110	Frozen	93	96	120	NS
Chloride (mg/L)	560	560	430	320	350	13	370	400	220	210	110	150	130	42	24	25	Frozen	5.7	10	4.4	250
Color (Pt-Co)		290					1,200					750	900				Frozen	500	<0.1	0.17	15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	0.28	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	Frozen	0.15			10
Sulfate (mg/L)	<5	6	110	16	48	32	23	5.8	33	32	66	79	94	63	120	110	Frozen	94	49	52	250
Total Alkalinity (mg/L)	1,800	1,500	550	600	1,400	1,300	1,100	1,100	1,200	1,200	930	860	840	660	480	550	Frozen	410	460	370	NS
Total Cyanide		<0.01					<0.01					<0.01	<0.01				Frozen	<0.01	490	350	0.2
Total Dissolved Solids (mg/L)	2,600	2,200	2,280	1,710	1,930	250	2,100	1,600	1,500	1,500	1,100	1,200	1,100	680	610	580	Frozen	430			500
Total Hardness (mg/L)	770	750	644	504	478	430	470	410	320	360	290	260	200	170	190	150	Frozen	120	190	100	NS
Total Kjeldahl Nitrogen (mg/L)	85	85	99	89	120	170	160	130	150	130	100	120	140	76	61	32	Frozen	86	63	64	NS
Total Organic Carbon (mg/L)	200	170	247	123	36	200	150	130	120	130	84	90	86	60	47	43	Frozen	22	35	43	NS
Total Phenols (mg/L)	0.009	<0.005	0.006	0.008	0.005	0.0038	0.0052	0.0031	0.0025	0.0032	0.0022	0.0034	<0.002	0.011	0.0038	<0.002		<0.002	<0.002	0.0053	0.001
Part 360 Routine Metals																					
Boron (mg/L)		2.2				2.5	2.4			1.2	1.3	1.6	1.4	1.1	1		Frozen	<0.5	0.85	<0.5	1
Cadmium (mg/L)		0.0084	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Frozen	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	216	212	171	134	123	110	120	110	87	99	82	73	52	49	56	46	Frozen	39	59	32	NS
Iron (mg/L)	64.4	66.6	55.8	40.8	45.6	48	48	34	34	34	26	30	24	15	29	14	Frozen	12	14	29	0.3*
Lead (mg/L)	<0.003	0.0123	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Frozen	<0.01	0.011	<0.01	0.025
Magnesium (mg/L)	55.7	54.7	52.6	41	41.5	37	39	33	25	28	20	20	15	11	11	9.1	Frozen	6.9	10	5.3	35 (GV)
Manganese (mg/L)	1.96	1.87	1.6	1.4	1.3	1.3	1.5	1.2	1.1	1.2	0.95	0.91	0.74	0.6	0.63	0.5	Frozen	0.43	0.61	0.36	0.3*
Potassium (mg/L)	202	191	210	160	160	210	230	210	170	170	140	150	140	110	79	97	Frozen	93	94	79	NS
Sodium (mg/L)	960	417	310	310	300	320	510	370	320	370	220	250	210	92	54	76	Frozen	16	27	10	20
Part 360 Baseline Metals																					
Aluminum (mg/L)		4.04					1.8					1	0.91					1.3			NS
Antimony (mg/L)		<0.015					0.043					<0.01	<0.01					<0.01			0.003
Arsenic (mg/L)		<0.01					0.01					<0.01	<0.01					0.011			0.025
Barium (mg/L)		1.25					1.3					0.61	0.5					0.27			1
Beryllium (mg/L)		<0.003					0.01					<0.01	<0.01					<0.01			0.003 (GV)
Chromium (mg/L)		0.0222					0.025					0.015	0.018					0.011			0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.5					<0.01			0.05
Cobalt (mg/L)		<0.02					0.013					<0.01	<0.01					<0.01			NS
Copper (mg/L)		0.0163					<0.01					<0.01	<0.01					<0.01			0.2
Mercury (mg/L)		<0.0002					<0.0002					0.007	<0.0002					<0.0002			0.0007
Nickel (mg/L)		<0.03					0.033					0.019	0.027					<0.01			0.1
Potassium (mg/L)	202	191	210	160	160	210	230	210	170	170	140	150	140	110	79	97	Frozen	93	94		NS
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01			0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Thallium (mg/L)		0.0139					<0.01					<0.01	<0.01					<0.01			0.0005 (GV)
Vanadium (mg/L)		0.0457					0.075					0.042	0.051					0.027			NS
Zinc (mg/L)		0.107					0.062					0.025	0.021					0.091			2
Volatile Organics																					
1,1,1,2-Tetrachloroethane (μg/L)							<5					<5	<5				Frozen	<5			5
1,1,1-Trichloroethane (μg/L)		<5					<5					<5	<5				Frozen	<5			5

City of Rome
Tannery Road Landfill
MW-3S
Ground Water Analytical Data

Parameter	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/03	NYSDEC
1,1,2,2-Tetrachloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5			5
1,1,2-Trichloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5			1
1,1-Dichloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5			5
1,1-Dichloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
1,2,3-Trichloropropane (µg/L)							<5					<5	<5				Frozen	<5			0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10					<5					<5	<5				Frozen	<5			0.04
1,2-Dibromoethane (EDB) (µg/L)		<5					<5					<5	<5				Frozen	<5			5
1,2-Dichlorobenzene (µg/L)		<5					<5					<5	<5				Frozen	<5			3
1,2-Dichloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5			0.6
1,2-Dichloropropane (µg/L)		<5					<5					<5	<5				Frozen	<5			1
1,3-Dichlorobenzene (µg/L)		<5																			3
1,4-Dichloro-2-butene (µg/L)		<10																			5
1,4-Dichlorobenzene (µg/L)		<5					<5					<5	<5				Frozen	<5			3
2-Butanone (MEK) (µg/L)		<10					<10					<10	<10				Frozen	<10			50 (GV)
2-Hexanone (µg/L)		<10					<10					<10	<10				Frozen	<10			50 (GV)
4-Methyl 2-pentanone (µg/L)		<10					<10					<10	<10				Frozen	<10			NS
Acetone (µg/L)		21					<10					<10	<10				Frozen	<10			50 (GV)
Acrylonitrile (µg/L)		<<100					<20					<20	<20				Frozen	<20			5
Benzene (µg/L)		<5					<5					<5	<5				Frozen	<5			1
Bromochloromethane (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Bromodichloromethane (µg/L)		<5										<5	<5				Frozen	<5			50 (GV)
Bromoform (µg/L)		<5					<5					<5	<5				Frozen	<5			50 (GV)
Bromomethane (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Carbon disulfide (µg/L)		6					<5					<5	<5				Frozen	<5			60 (GV)
Carbon tetrachloride (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Chlorobenzene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Chloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Chloroform (µg/L)		<5					<5					<5	<5				Frozen	<5			7
Chloromethane (µg/L)		<5					<5					<5	<5				Frozen	<5			5
cis-1,2-Dichloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
cis-1,3-Dichloropropene (µg/L)		<5					<5					<5	<5				Frozen	<5			0.4**
Dibromochloromethane (µg/L)		<5					<5					<5	<5				Frozen	<5			50 (GV)
Dibromomethane (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Ethyl benzene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Iodomethane (µg/L)		<5					<20					<20	<10				Frozen	<10			5
Methylene Chloride (µg/L)		<5					<10					<10	<10				Frozen	<10			5
Styrene (µg/L)							<5					<5	<5				Frozen	<5			5
Tetrachloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Toluene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
trans-1,2-Dichloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
trans-1,3-Dichloropropene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
trans-1,4-Dichloro-2-butene (µg/L)							<50					<50	<10				Frozen	<10			0.4**
Trichloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Trichlorofluoromethane (µg/L)		<5					<5					<5	<5				Frozen	<5			5
Vinyl Acetate (µg/L)		<50					<20					<20	<20				Frozen	<20			NS
Vinyl Chloride (µg/L)		<5					<5					<5	<5				Frozen	<5			2
Xylenes (Total) (µg/L)		<5					<5					<5	<5				Frozen	<5			5

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-4S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
Field Parameter																					
Conductivity (μmhos/cm)	672	1,590	2,010	444	338	334	429	374	204	247	555	177	125	161	807	163	137	123	685	207	NS
pH (s.u.)	7.05	6.43	6.23	7.11	6.18	6.36	6.14	6.04	5.81	5.7	6.07	6.07	5.96	6.05	8.3		5.7	5.96	6.14	5.5	6.5 - 8.5
Temperature (deg C)	5.7	15.8	15	7.1	6.3	11	14.3	6.8	5.3	15.6	12.7	7.7	5.9	11.5	13.5	6.8	5.5	14.4	15.3	6	NS
Turbidity (NTU)	137	77	87	86	40	79	58	33	29	24	19	18	17		91	0	25	147	116	6	5
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	26	<0.5	90	15	14	15	24	18	7.4	9.8	32	3.1	1.7	3.5	39	2.3	2.6	1.7	35	4.2	2
Biochemical Oxygen Demand (BOD5) (mg/L)	62	6	34	24	23	<2.0	14	<20.0		12	25	<10.0	<10.0	<10.0	49	<10.0	6.6	4.7	15	<4	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	<0.1	<0.1	<0.1	<0.1	0.12	0.24	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	540	44	22	110	120	110	160	140	110	98	160	88	62	84	230	44	54	75	220	87	NS
Chloride (mg/L)	50	3	200	23	100	2.7	21	16	7.1	8.7	43	5.6	4.5	5.3	99	4.6	5.3	3.8	98	4.8	250
Color (Pt-Co)		140					250					300	250					175			15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.6	0.3	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.25	0.13	<0.1	0.15	10
Sulfate (mg/L)	24	32	11	56	52	28	40	35	11	17	49	27	17	15	20	39	24	14	25	31	250
Total Alkalinity (mg/L)	200	120	660	110	99	99	140	100	57	91	170	23	27	48	280	20	24	34	200	30	NS
Total Cyanide (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.2
Total Dissolved Solids (mg/L)	320	5,100	810	330	240	160	340	250	170	200	300	180	160	150	530	130	150	140	560	80	500
Total Hardness (mg/L)	42	110	94	49	36	41	46	44	31	40	56	42	34	36	77	42	35	35	130	37	NS
Total Kjeldahl Nitrogen (mg/L)	26	0.8	70	4.6	12	23	24	20	8.2	12	34	4.6	2.1	4.9	47	2.4	2.8	2	35	4.3	NS
Total Organic Carbon (mg/L)	71	21	47.8	35.5	39.3	45	56	62	42	43	61	33	30	41	84	21	24	27	78	32	NS
Total Phenols (mg/L)	0.056	<0.005	0.008	0.012	0.003	0.0023	0.0028	0.0028	<0.002	0.003	0.0024	<0.002	0.0022	0.0093	0.0056	0.0022	<0.002	<0.002	0.0045	0.0036	0.001
Part 360 Routine Metals																					
Boron (mg/L)		<0.1				0.53	0.71			<0.5	0.65	<0.5	<0.5	<0.5	1.1			<0.01	1.4	<0.5	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	11.2	29.8	24.4	12.6	9.1	10	12	11	7.7	9.6	14	10	8.5	8.8	20	10	8.7	8.7	34	9.1	NS
Iron (mg/L)	5.2	32.8	10.3	5.3	4.4	3.9	5.5	6.5	4.9	6.6	6.9	6.6	5.2	5.2	21	4.8	4.2	3.9	9.4	3.4	0.3*
Lead (mg/L)	<0.003	0.0085	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.025
Magnesium (mg/L)	3.35	8.28	8.1	4.3	3.2	3.7	4.1	4.2	3	3.9	4.9	4	3.2	3.3	6.3	3.8	3.2	3.1	10	3.5	35 (GV)
Manganese (mg/L)	0.335	4.11	0.62	0.41	0.31	0.33	0.35	0.38	0.3	0.37	0.48	0.38	0.32	0.32	0.55	0.27	0.24	0.22	0.88	0.2	0.3*
Potassium (mg/L)	28.6	4.86	57	34.2	24.1	33	31	35	16	24	33	14	9.7	11	42	13	10	10	48	12	NS
Sodium (mg/L)	35.8	3.43	150	27.9	18.1	21	32	18	7.4	13	46	5.7	5.2	4	81	4.6	4.7	3.1	100	4	20
Part 360 Additional Basiline Metals																					
Aluminum (mg/L)		2.77					1.8					1.1	1.2					1.4			NS
Antimony (mg/L)		<0.015					<0.01					<0.01	<0.01					<0.01			0.003
Arsenic (mg/L)		0.027					<0.01					<0.01	<0.01					0.011			0.025
Barium (mg/L)		0.0855					<0.2					<0.2	<0.2					<0.2			1
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01			0.003 (GV)
Chromium (mg/L)		0.0097					<0.01					<0.01	<0.01					<0.01			0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Cobalt (mg/L)		<0.02					<0.01					<0.01	<0.01					<0.01			NS
Copper (mg/L)		0.0258					<0.01					<0.01	<0.01					<0.01			0.2
Mercury (mg/L)		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002			0.0007
Nickel (mg/L)		<0.03					0.021					<0.01	<0.01					<0.01			0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01			0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Thallium (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.0005 (GV)
Vanadium (mg/L)		<0.3					0.011					<0.01	<0.01					<0.01			NS
Zinc (mg/L)		0.0508					0.032					0.012	0.024					0.049			2
Part 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,1,1-Trichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1,2,2-Tetrachloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1,2-Trichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1

City of Rome
Tannery Road Landfill
MW-4S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,3-Dichlorobenzene (µg/L)		<5.0																			<5
1,4-Dichloro-2-butene (µg/L)		<10.0																			<5
1,4-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			NS
Acetone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20			5
Benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5			50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Carbon disulfide (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Ethyl benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10			5
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10			5
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5			5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10			5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20			NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			2
Xylenes (Total) (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,2-Dichloroethene - Total																	<5				

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-5S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/2003	NYSDEC Ground Water Standard
Field Parameter																					
Conductivity (µmhos/cm)	869	340	308	195	540	230	167	219	456	163	433	227	232	223	112	252	227	208	102	230	NS
pH (s.u.)	7.56	6.75	6.48	7.3	6.46	6.75	6.85	6.67	6.26	6.5	6.75	6.84	6.57	6.85	5.67		6.5	6.77	6.85	6.9	6.5 - 8.5
Temperature (deg C)	5.2	16.2	13.1	7	6.5	10.9	12.8	6.6	6	14.6	11.6	7.7	4.8	10.1	13.2	6.9	5.5	13.1	14.3	7	NS
Turbidity (NTU)	64	533	204	162	74	55	198	46	35	42	68	36	47		837	0	27	334	202	140	5
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	1.5	<0.5	<0.3	<0.3	<0.3	0.11	0.11	0.34	1.3	0.34	1.4	0.43	0.82	0.26	0.09	0.57	0.65	0.71	0.058	0.4	2
Biochemical Oxygen Demand (BOD5) (mg/L)	11	11	2	2	62	20	<2.0	<4.0		<4.0	4.7	<4.0	<4.0	<4.0	9.5	<4.0	<4.0	<4	<4.0	<4	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	1.3	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	71	45	32	20	36	24	32	26	37	5.2	43	23	31	18	62	20	16	69	22	32	NS
Chloride (mg/L)	14	3	2.4	3.2	5.9	94	2.9	2.3	5	2.9	6	3.2	3.1	2.9	2.6	2.8	4.1	4	3.2	4.3	250
Color (Pt-Co)		110					30					75	150					125			15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.8	0.6	0.16	0.1	<0.1	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	0.19	<0.1	<0.1	0.15	0.12	0.18	10
Sulfate (mg/L)	37	40	28	31	51	16	44	60	42	34	53	36	23	18	21	23	21	22	16	14	250
Total Alkalinity (mg/L)	470	170	300	58	260	120	52	47	200	50	190	68	82	80	40	110	97	86	32	100	NS
Total Cyanide (mg/L)		<0.01										<0.01	<0.01					<0.01			0.2
Total Dissolved Solids (mg/L)	430	130	230	150	360	730	140	150	300	120	240	200	78	110	180	170	160	170	92	160	500
Total Hardness (mg/L)	320	130	148	81	228	120	96	110	200	78	230	110	110	93	110	120	130	120	66	110	NS
Total Kjeldahl Nitrogen (mg/L)	3.1	1.1	0.9	0.4	<0.3	0.61	0.69	0.8	1.8	0.67	1.6	0.62	0.89	0.39	1.4	0.63	0.66	0.79	0.37	0.59	NS
Total Organic Carbon (mg/L)	22	15	15.1	17.1	16.8	9.7	9.1	8.5	13	7.2	13	9.6	11	6.5	22	8.1	8.1	10	5.7	10	NS
Total Phenols (mg/L)	<0.005	<0.005	<0.001	0.003	0.001	0.0024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0097	0.0033	<0.002	<0.002	<0.002	<0.002	<0.002	0.001
Part 360 Routine Metals																					
Iron (mg/L)		<0.1				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	97.8	35	43	23.3	69.9	35	27	31	64	23	72	35	35	30	27	41	42	39	20	35	NS
Iron (mg/L)	31.4	20.8	14.2	9.3	24.8	7.6	11	8	15	10	15	6.1	12	8.2	97	11	10	11	13	30	0.3*
Lead (mg/L)	<0.003	0.0056	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.022	<0.01	<0.01	<0.01	<0.01	<0.01	0.025
Magnesium (mg/L)	18.6	10.2	9.8	5.5	13	7.9	6.7	7.3	10	5.1	12	6	5.3	4.2	9.5	5	5.3	4.8	4	4.9	35 (GV)
Manganese (mg/L)	12.2	4.16	6.5	2.6	8.5	2.8	1.4	1.8	2.6	0.37	2.5	1.4	1.6	1.4	3.6	1.4	0.92	0.65	0.48	1	0.3*
Potassium (mg/L)	8.94	4.89	3.4	3.8	6.6	5	4.7	5.1	8.8	24	9.4	5.6	4.4	4.2	5.1	5	4.7	4.6	3.3	4.7	NS
Sodium (mg/L)	12.1	3.34	11	3.1	5.3	1.9	1.3	<1.0	3.8	13	4.8	1.4	1.6	1	<1.0	1.4	1.5	2.2	<1	2.1	20
Part 360 Additional Baseline Metals																					
Aluminum (mg/L)		3.2					2					0.41	0.54					0.73			NS
Antimony (mg/L)		<0.015					0.022					<0.01	<0.01					<0.01			0.003
Arsenic (mg/L)		0.0138					<0.01					<0.01	0.013					0.031			0.025
Barium (mg/L)		0.0655					<0.2					<0.2	<0.2					<0.2			1
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01			0.003 (GV)
Chromium (mg/L)		0.0109					<0.01					<0.01	<0.01					<0.01			0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Cobalt (mg/L)		<0.02					<0.01					<0.01	<0.01					<0.01			NS
Copper (mg/L)		0.0295					0.014					<0.01	<0.01					<0.01			0.2
Mercury (mg/L)		<0.0002					0.0027					<0.0002	<0.0002					<0.0002			0.0007
Nickel (mg/L)		<0.03					<0.01					<0.01	<0.01					<0.01			0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01			0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Thallium (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.0005 (GV)
Vanadium (mg/L)		<0.3					<0.01					<0.01	<0.01					<0.01			NS
Zinc (mg/L)		0.0827					0.058					0.013	0.032					0.041			2
Part 360 Volatile Organics																					
1,1,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,1-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1,2,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1,2-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1

City of Rome
Tannery Road Landfill
MW-5S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/2003	NYSDEC Ground Water Standard
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,3-Dichlorobenzene (µg/L)		<5.0																			3
1,4-Dichloro-2-butene (µg/L)		<10.0																			5
1,4-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			NS
Acetone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20			5
Benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5			50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Carbon disulfide (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Ethyl benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10			5
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10			5
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5			5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10			5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20			NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			2
Xylenes (Total) (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,2-Dichloroethene - Total																	<5				

Notes

1) < Indicates not detected at or above the listed value
2) NS Indicates that no standard has been promulgated.
3) * Indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV Indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-7D
Ground Water Analtyical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
Field Parameters																					
nductivity (µmhos/cm)	1,330	1,120	1,620	1,300	1,320	1,710	1,220	1,270	1,350	1,200	1,090	1,290	1,440	1,430	503	1,110	1,150	775	1,080	370	NS
(s.u.)	6.64	6.53	6.4	7.92	6.5	6.88	6.41	6.46	6.2	5.96	6.39	6.31	5.96	6.25	5.4		6.3	6.42	6.48	6.9	6.5 - 8.5
Temperature (deg C)	8.1	14.5	13.2	8.1	8.4	13.3	11.5	9	8.9	12.7	11.2	10.1	9	11.6	11.6	9.5	5.5	12.1	11.7	9	NS
Turbidity (NTU)	160	42	94	247	128	83	98	62	97	112	152	53	29		345	61	69	999	128	30	5
rt 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	47	25	47	36	33	58	41	37	46	40	47	39	43	46	22	34	39	40	38	8.4	2
Biochemical Oxygen Demand (BOD5) (mg/L)	19	17	17	11	11	4.4	10	<20.0		13	14	<20.0	<20.0	<10.0	9.3	<20.0	<10.0	12	7.1	<10	NS
omide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	<0.1	1.1	1	0.93	0.74	0.75	0.64	0.8	1	0.21	0.11	0.85	0.89	0.88	<0.1	2
emical Oxygen Demand (mg/L)	570	140	14	110	120	150	140	120	140	120	120	120	130	130	150	100	120	150	120	76	NS
Chloride (mg/L)	81	70	88	84	68	3.3	65	59	74	62	46	56	76	72	21	7	55	57	54	8.8	250
Color (Pt-Co)		280					750					850	750					600			15
itrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	1.5	4.9	0.16	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	0.16	<0.1	0.23	<0.1	<0.1	<0.1	<0.1	0.72	10
ulfate (mg/L)	<5.0	35	12	28	34	9.3	41	44	35	47	45	52	58	61	47	8.6	54	57	49	28	250
Total Alkalinity (mg/L)	670	370	710	470	450	680	460	440	430	470	430	390	460	470	160	360	390	410	340	120	NS
otal Cyanide (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.2
otal Dissolved Solids (mg/L)	540	540	710	660	610	400	590	600	670	570	480	650	720	650	420	520	580	640	580	240	500
otal Hardness (mg/L)	300	260	350	310	244	390	320	270	280	270	260	250	270	280	140	240	270	270	310	97	NS
Total Kjeldahl Nitrogen (mg/L)	44	36	36	24	26	680	50	51	52	43	50	39	50	44	26	36	41	41	25	6.4	NS
otal Organic Carbon (mg/L)	55	48	45.9	38.5	38.1	60	48	55	49	44	43	47	50	46	50	41	42	27	43	28	NS
otal Phenols (mg/L)	0.01	<0.005	0.01	0.014	0.006	0.0055	0.004	0.004	0.0026	0.0034	0.0039	0.0042	0.0027	0.012	0.0044	0.003	0.0032	0.003	0.0024	NA	0.001
Part 360 Routine Metals																					
ron (mg/L)		0.7				1.7	1.2			<0.5	0.83	<0.5	0.99	0.83	<0.5			1.1	1.2	<0.5	1
admium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	62.9	61.1	74.9	64.2	56.4	87	77	66	70	66	64	65	71	71	35	63	69	80	76	24	NS
Iron (mg/L)	41.1	39.2	40.8	37.7	33.2	53	45	38	41	42	39	40	40	40	35	34	41	47	45	27	0.3*
ead (mg/L)	0.0071	0.0041	0.006	0.014	0.006	<0.01	<0.01	<0.01	<0.01	0.013	0.014	<0.01	<0.01	<0.01	0.035	0.014	<0.01	<0.01	0.018	<0.01	0.025
agnesium (mg/L)	33.6	25.9	39.5	36.5	25.1	41	32	25	25	25	25	22	24	25	14	20	25	29	28	9.1	35 (GV)
Manganese (mg/L)	0.837	0.84	0.82	0.89	0.87	0.96	0.85	0.73	0.8	0.76	0.76	0.7	0.73	0.71	0.67	0.65	0.72	0.82	0.85	0.83	0.3*
Potassium (mg/L)	54.8	40.9	48	50.5	38.4	60	46	66	43	39	41	37	40	43	23	40	39	47	39	20	NS
odium (mg/L)	46.1	39.6	60	55.5	50.5	83	64	48	54	56	59	50	53	57	15	37	52	58	47	9.9	20
Part 360 Additional Baseline Metals																					
luminum (mg/L)		0.439					1					1.2	0.83					2.3			NS
ntimony (mg/L)		<0.015					0.034					<0.01	<0.01					<0.01			0.003
Arsenic (mg/L)		<0.01					0.011					<0.01	<0.01					0.026			0.025
Barium (mg/L)		0.217					<0.2					0.43	0.49					0.61			1
eryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01			0.003 (GV)
hromium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01			0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Cobalt (mg/L)		<0.02					<0.01					<0.01	<0.01					<0.01			NS
opper (mg/L)		<0.01					<0.01					0.022	<0.01					<0.01			0.2
Mercury (mg/L)		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002			0.0007
Nickel (mg/L)		<0.03					<0.01					<0.01	<0.01					<0.01			0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01			0.01
ilver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
hallium (mg/L)		0.0105					<0.01					<0.01	<0.01					<0.01			0.0005 (GV)
Vanadium (mg/L)		<0.3					0.013					0.013	0.01					0.018			NS
Zinc (mg/L)		0.056					0.067					0.036	0.034					0.097			2
art 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,1-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,2,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1,2-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5

City of Rome
Tannery Road Landfill
MW-7D
Ground Water Analtyical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5			0.04
2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.6
2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,3-Dichlorobenzene (µg/L)		<5.0																			3
1,4-Dichloro-2-butene (µg/L)		<10.0																			5
4-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			NS
cetone (µg/L)		<10.0					<10.0					<10.0	<10.0				10	<10			50 (GV)
crylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20			5
Benzene (µg/L)		<5.0					**14**					**17**	**24**				**15**	**16**			1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
romodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5			50 (GV)
romoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
arbon disulfide (µg/L)		<18.0					<5.0					<5.0	<5.0				<5	<5			60 (GV)
arbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chlorobenzene (µg/L)		**23**					**8.4**					**5.8**	**5.3**				<5	<5			5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
hloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			7
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
ibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
ibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Ethyl benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10			5
lethylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10			5
tyrene (µg/L)							<5.0					<5.0	<5.0				<5	<5			5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
ans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
ans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10			5
richloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
richlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20			NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			2
ylenes (Total) (µg/L)		2					**16**					**130**	**180**				**160**	**97**			5
2-Dichloroethene - Total																	<5				

Notes
1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-9S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
Field Parameters																					
Conductivity (µmhos/cm)	485	398	369	411	413	414	411	411	419	365	390	408	435	415	377	410	423	385	392	480	NS
pH (s.u.)	7.67	7.32	7.23	7.31	7.11	6.89	6.96	7.28	7.2	6.94	6.65	7.39	7.15	7.39	8.9		7.3	7.17	7.5	7.5	6.5 - 8.5
Temperature (deg C)	5.8	14.6	12.9	7.4	6.4	9.8	11	8.2	6.1	11.9	11.4	8.2	7.4	9.3	12.7	8	6.3	11.3	12.8	6	NS
Turbidity (NTU)	**999**	**324**	**659**	**999**	**999**	**999**	**999**	**999**	**999**	**704**	**241**	**466**	**460**	**501**	**999**	**506**	**218**	**999**	**614**	**50**	5
Part 360 Leachate Indicator Parameters																					
Ammonia-Nitrogen (mg/L)	<0.5	<0.5	<0.3	<0.3	<0.3	0.14	0.3	0.15	0.28	0.3	0.39	0.21	0.17	0.33	0.32	0.56	0.16	1.8	0.93	<0.03	2
Biochemical Oxygen Demand (BOD5) (mg/L)	<4.0	5	3.9	5	4.7	5.6	2.1	<4.0		<4.0	4.2	<4.0	<4.0	<4.0	18	4.5	<4.0	4.4	<4.0	<4	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	0.15	<0.1	<0.1	<0.1	0.17	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	160	120	26	76	64	74	160	120	96	120	72	75	290	75	87	64	57	120	67	75	NS
Chloride (mg/L)	8	3	4.1	<2.0	2.6	3.3	3.3	3.3	3.4	3.2	3.6	3.3	3.2	3.4	3.3	3.2	3.2	3.2	3.4	3.4	250
Color (Pt-Co)		530					400					600	850					750			15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.5	0.3	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	0.17	0.16	<0.1	0.14	<0.1	<0.1	<0.1	<0.1	0.18	10
Sulfate (mg/L)	5	8	12	8	12	8.5	2.3	4.7	4.2	2.9	3.1	8.6	15	8.4	3.2	6.2	19	15	3.2	8	250
Total Alkalinity (mg/L)	230	260	1400	260	270	240	270	280	230	260	240	210	240	250	230	250	240	250	220	240	NS
Total Cyanide (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.2
Total Dissolved Solids (mg/L)	420	260	360	340	340	390	420	400	360	380	240	430	360	340	330	380	390	360	340	320	500
Total Hardness (mg/L)	1100	530	477.2904	489.5396	466	610	720	700	1200	300	420	390	460	360	650	730	380	400	410	150	NS
Total Kjeldahl Nitrogen (mg/L)	2.8	1.9	0.5	<0.3	<0.3	0.97	1.4	1.7	1	1.3	1	0.7	0.45	1.2	1.7	0.52	0.74	1.5	0.57	0.63	NS
Total Organic Carbon (mg/L)	30	29	28.6	38.5	32.6	32	31	36	35	30	29	32	29	31	32	26	24	32	25	28	NS
Total Phenols (mg/L)	<0.005	<0.005	<0.001	**0.005**	<0.001	**0.0022**	**0.019**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0087**	**0.0035**	<0.002	<0.002	**0.0022**	**0.0026**	**0.0031**	0.001
Part 360 Routine Metals																					
Boron (mg/L)		<0.1				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	1
Cadmium (mg/L)	**0.0088**	**0.0053**	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	307	142	142	138	138	160	190	180	300	88	120	110	130	100	170	200	100	110	120	**50**	NS
Iron (mg/L)	**85.3**	**47.8**	**28.2**	**26.8**	**14.3**	**37**	**56**	**56**	**110**	21	**30**	**24**	**29**	**26**	**48**	**52**	**25**	**36**	**29**	**2.6**	0.3*
Lead (mg/L)	**0.0381**	0.021	0.011	0.017	0.008	<0.01	<0.01	**0.043**	**0.042**	0.012	0.012	0.011	0.017	0.014	**0.034**	**0.041**	<0.01	<0.01	0.023	<0.01	0.025
Magnesium (mg/L)	**83.9**	**43.5**	29.8	**35.2**	29.4	**48**	**58**	**60**	**100**	19	29	28	34	26	**53**	**60**	27	30	27	5.2	35 (GV)
Manganese (mg/L)	**4.21**	**2.13**	1.7	**1.9**	**1.6**	**2.4**	**2.8**	2.7	5	**1.1**	**1.5**	**1.5**	**1.8**	**1.4**	**2.6**	**3**	**1.4**	**1.6**	**1.5**	**0.36**	0.3*
Potassium (mg/L)	**12.1**	6.96	2.3	4.6	2.4	4.6	6.4	7.3	14	4.2	7.2	4.6	4.6	6.6	6.3	5.4	4.5	5.8	4.9	2.7	NS
Sodium (mg/L)	**49.3**	**39.3**	**30**	**41.7**	**46**	**46**	49	**53**	**55**	**48**	**33**	**43**	**55**	57	**38**	**40**	**53**	**54**	**37**	**55**	20
Part 360 Additional Baseline Metals																					
Aluminum (mg/L)		23.9					<0.01					12	12					18			NS
Antimony (mg/L)		<0.015					**0.048**					<0.01	<0.01					<0.01			0.003
Arsenic (mg/L)		<0.01					<0.01					0.016	0.019					**0.035**			0.025
Barium (mg/L)		0.201					0.23					<0.2	<0.2					0.2			1
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01			0.003 (GV)
Chromium (mg/L)		**0.0592**					<0.01					0.02	0.022					0.033			0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Cobalt (mg/L)		<0.02					0.024					<0.01	<0.01					0.014			NS
Copper (mg/L)		0.0845					0.092					0.036	0.027					0.085			0.2
Mercury (mg/L)		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002			0.0007
Nickel (mg/L)		0.0726					0.071					0.027	0.034					0.042			0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01			0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Thallium (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.0005 (GV)
Vanadium (mg/L)		0.047					0.048					0.023	0.024					0.037			NS
Zinc (mg/L)		0.184					0.2					0.063	0.081					0.13			2
Part 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,1,1-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1,2,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1,2-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5

City of Rome
Tannery Road Landfill
MW-9S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,3-Dichlorobenzene (µg/L)		<5.0																			3
1,4-Dichloro-2-butene (µg/L)		<10.0																			5
1,4-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			NS
Acetone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20			5
Benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5			50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Carbon disulfide (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Ethyl benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10			5
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10			5
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5			5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10			5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20			NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			2
Xylenes (Total) (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,2-Dichloroethene - Total																	<5				

Notes
1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
Leachate Well MW-10
Analytical Data

Parameter	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
Field Parameters									
Conductivity (µmhos/cm)	4,940	4,970	5,440	3,780	4,050	4,810	5,600	4,300	NS
pH (s.u.)	6.48	6.63	7		6.6	6.5	6.78	6.4	6.5 - 8.5
Temperature (deg C)	12.8	15.2	17.2	10.4	7.6	19.7	15.8	9	NS
Turbidity (NTU)	356	183	585	164	207	383	47	430	5
Part 360 Leachate Indicator Parameters									
Ammonia-Nitrogen (mg/L)	200	260	270	200	280	280	270	230	2
Biochemical Oxygen Demand (BOD5) (mg/L)	38	24	46	34	30	20	36	43	NS
Bromide (mg/L)	2.6	3	3.9	1.9	2.1	3.2	3.8	2.3	2
Chemical Oxygen Demand (mg/L)	420	250	3,200	270	340	490	640	270	NS
Chloride (mg/L)	440	430	610	380	200	450	550	260	250
Color (Pt-Co)	1,400					600			15
Nitrate-Nitrogen (mg/L)	<0.1	0.16	0.17	<0.1	<0.1	0.15	0.76	0.54	10
Sulfate (mg/L)	2.9	2.2	3.6	2.2	2.3	2.5	<1	2.3	250
Total Alkalinity (mg/L)	1,700	1,900	2,200	1,500	1,600	1,800	2,000	1,500	NS
Total Cyanide (mg/L)	<0.01					<0.01			0.2
Total Dissolved Solids (mg/L)	1,900	2,100	2,500	1,500	1,400	2,200	2,500	1,200	500
Total Hardness (mg/L)	580	580	690	480	550	750	790	430	NS
Total Kjeldahl Nitrogen (mg/L)	290	220	320	220	280	300	330	350	NS
Total Organic Carbon (mg/L)	160	150	230	99	120	120	230	110	NS
Total Phenols (mg/L)	0.016	0.02	0.015	0.026	<0.002	0.015	0.013	0.017	0.001
Part 360 Routine Metals									
Boron (mg/L)	2.5	2.7	3.7			3.4	4.4	1.6	1
Cadmium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	120	120	140	100	110	150	150	91	NS
Iron (mg/L)	62	60	70	48	58	61	68	52	0.3*
Lead (mg/L)	0.049	0.031	0.04	0.022	0.041	<0.01	0.014	0.022	0.025
Magnesium (mg/L)	68	67	83	53	65	94	100	50	35 (GV)
Manganese (mg/L)	1.3	1.5	2.4	1.6	1.5	1.7	2.7	1.3	0.3*
Potassium (mg/L)	190	200	340	180	230	230	410	220	NS
Sodium (mg/L)	430	460	600	250	270	420	630	250	20
Part 360 Additional Baseline Metals									
Aluminum (mg/L)	2.4					0.9			NS
Antimony (mg/L)	<0.01					<0.01			0.003
Arsenic (mg/L)	0.02					0.038			0.025
Barium (mg/L)	<0.2					0.32			1
Beryllium (mg/L)	<0.01					<0.01			0.003 (GV)
Chromium (mg/L)	0.031					0.019			0.05
Chromium, Hexavalent (mg/L)	<0.01					<0.01			0.05
Cobalt (mg/L)	0.012					0.017			NS
Copper (mg/L)	0.052					0.013			0.2
Mercury (mg/L)	0.0002					<0.0002			0.0007
Nickel (mg/L)	0.062					0.049			0.1
Selenium (mg/L)	<0.01					<0.01			0.01
Silver (mg/L)	<0.01					<0.01			0.05
Thallium (mg/L)	<0.01					<0.01			0.0005 (GV)
Vanadium (mg/L)	<0.01					0.012			NS
Zinc (mg/L)	0.16					0.11			2
Part 360 Volatile Organics									
1,1,1,2-Tetrachloroethane (µg/L)	<5.0					<5			5
1,1,1-Trichloroethane (µg/L)	<5.0				<5	<5			5
1,1,2,2-Tetrachloroethane (µg/L)	<5.0				<5	<5			5

City of Rome
Tannery Road Landfill
Leachate Well MW-10
Analytical Data

Parameter	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
1,1,2-Trichloroethane (µg/L)	<5.0				<5	<5			1
1,1-Dichloroethane (µg/L)	<5.0				<5	<5			5
1,1-Dichloroethene (µg/L)	<5.0				<5	<5			5
1,2,3-Trichloropropane (µg/L)	<5.0					<5			0.04
1,2-Dibromo-3-chloropropane (µg/L)	<5.0					<5			0.04
1,2-Dibromoethane (EDB) (µg/L)	<5.0					<5			5
1,2-Dichlorobenzene (µg/L)	<5.0					<5			3
1,2-Dichloroethane (µg/L)	<5.0				<5	<5			0.6
1,2-Dichloropropane (µg/L)	<5.0				<5	<5			1
1,4-Dichlorobenzene (µg/L)	<5.0					<5			3
2-Butanone (MEK) (µg/L)	<10.0				<10	<10			50 (GV)
2-Hexanone (µg/L)	<10.0				<10	<10			50 (GV)
4-Methyl 2-pentanone (µg/L)	<10.0					<10			NS
Acetone (µg/L)	18				28	13			50 (GV)
Acrylonitrile (µg/L)	<20.0					<20			5
Benzene (µg/L)	**5.5**				**5.7**	<5			1
Bromochloromethane (µg/L)	<5.0					<5			5
Bromodichloromethane (µg/L)	<5.0				<5	<5			50 (GV)
Bromoform (µg/L)	<5.0				<5	<5			50 (GV)
Bromomethane (µg/L)	<5.0				<5	<5			5
Carbon disulfide (µg/L)	<5.0				<5	<5			60 (GV)
Carbon tetrachloride (µg/L)	<5.0				<5	<5			5
Chlorobenzene (µg/L)	<5.0				<5	<5			5
Chloroethane (µg/L)	**33**				**33**	**22**			5
Chloroform (µg/L)	<5.0				<5	<5			7
Chloromethane (µg/L)	<5.0				<5	<5			5
cis-1,2-Dichloroethene (µg/L)	<5.0					<5			5
cis-1,3-Dichloropropene (µg/L)	<5.0				<5	<5			0.4**
Dibromochloromethane (µg/L)	<5.0				<5	<5			50 (GV)
Dibromomethane (µg/L)	<5.0					<5			5
Ethyl benzene (µg/L)	**29**				<5	<5			5
Iodomethane (µg/L)	<10.0					<10			5
Methylene Chloride (µg/L)	<10.0				<10	<10			5
Styrene (µg/L)	<5.0				<5	<5			5
Tetrachloroethene (µg/L)	<5.0				<5	<5			5
Toluene (µg/L)	<5.0				<5	<5			5
trans-1,2-Dichloroethene (µg/L)	<5.0					<5			5
trans-1,3-Dichloropropene (µg/L)	<5.0				<5	<5			0.4**
trans-1,4-Dichloro-2-butene (µg/L)	<10.0					<10			5
Trichloroethene (µg/L)	<5.0				<5	<5			5
Trichlorofluoromethane (µg/L)	<5.0					<5			5
Vinyl Acetate (µg/L)	<20.0					<20			NS
Vinyl Chloride (µg/L)	<5.0				<5	<5			2
Xylenes (Total) (µg/L)	**75**				**96**	**28**			5
1,2-Dichloroethene - Total					<5				

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
Leachate Well MW-12
Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
Field Parameters																					
Conductivity (μmhos/cm)	3,400	3,430	3,850	3,900	4,470	4,770	4,560	4,940	4,080	3,820	4,100	5,090	4,750	4,490	5,700	4,430	4,820	4,500	4,550	4,600	NS
(s.u.)	6.12	6.74	6.69	6.7	6.64	7.01	6.54	6.5	6.56	6.54	6.75	6.65	6.42	6.66	7.1		6.7	6.64	6.79	7.1	6.5 - 8.5
..mperature (deg C)	12.2	17.8	15.3	12	10.9	16	14.8	9.4	11.7	18.4	14.1	11.9	12.2	14.5	17	10.3	7.5	18.2	15.4	10	NS
Turbidity (NTU)	228	368	678	650	351	153	268	180	150	432	315	125	53	25	350	243	111	253	4	150	5
rt 360 Leachate Indicator Parameters																					
..mmonia-Nitrogen (mg/L)	150	120	170	160	210	260	250	250	200	190	240	270	200	210	220	200	240	280	270	230	2
Biochemical Oxygen Demand (BOD5) (mg/L)	17	34	16	16	34	37	30	29		5.5	40	25	<20.0	18	46	37	28	22	25	<20	NS
Bromide (mg/L)	2.1	<0.2	<2.0	5.1	4.47	4.8	5.4	5.7	4.2	3.9	3.9	4.3	4.4	4.5	4.8	4.8	5.2	4.4	5.2	4.8	2
..emical Oxygen Demand (mg/L)	170	370	<10.0	270	380	400	440	440	360	170	31	240	97	280	410	400	360	420	430	380	NS
..loride (mg/L)	280	330	320	330	370	500	410	510	320	330	460	330	350	340	470	460	320	370	350	290	250
Color (Pt-Co)		580					300					750	1500					750			15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	0.21	<0.1	0.15	0.17	0.26	0.16	<0.1	0.38	0.19	0.2	0.25	0.28	0.19	0.19	0.41	10
..lfate (mg/L)	180	6	11	<5.0	53	1.9	1.5	1.4	2.3	2.8	3	<1.0	2.3	1.9	2.2	2.5	2.2	2.3	2.2	2.6	250
..tal Alkalinity (mg/L)	1400	1600	280	1400	990	990	1800	1800	1300	1700	1800	1800	1600	1800	1800	1700	1,900	1,800	1,700	1,700	NS
Total Cyanide (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.2
Total Dissolved Solids (mg/L)	1500	1400	1630	1750	1830	2100	1900	2000	1800	1700	1700	2000	1700	1900	1900	1800	1,900	2,000	1,800	1,800	500
..tal Hardness (mg/L)	652	620	831	635	596	540	620	630	620	620	660	580	650	620	630	660	600	590	720	540	NS
..tal Kjeldahl Nitrogen (mg/L)	160	180	170	160	200	260	280	270	210	190	230	250	210	200	240	220	270	330	270	280	NS
Total Organic Carbon (mg/L)	89	90	270	107	37.3	140	120	150	130	130	140	120	150	160	160	180	150	100	150	160	NS
Total Phenols (mg/L)	0.03	0.027	0.034	0.033	0.027	0.019	<0.002	0.02	0.02	0.024	0.021	0.02	0.019	0.024	0.021	0.017	<0.002	0.014	0.014	0.018	0.001
rt 360 Metals																					
Boron (mg/L)		2.7				3.4	3.4			2.3	2.8	3	3.1	3	3			3.2	4	3	1
Cadmium (mg/L)	0.0058	0.0061	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
..lcium (mg/L)	133	120	172	117	110	93	110	110	110	100	120	100	110	110	110	120	100	100	130	97	NS
..n (mg/L)	57.2	54.9	58.4	57.1	51.6	52	59	59	58	56	65	54	55	50	57	54	52	50	67	47	0.3*
Lead (mg/L)	0.0096	0.0061	0.022	0.011	0.012	<0.01	<0.01	0.026	<0.01	<0.01	<0.01	0.018	<0.01	<0.01	<0.01	0.018	0.015	<0.01	0.018	0.011	0.025
Magnesium (mg/L)	77.8	76.8	97.6	83.4	78	76	84	89	82	86	90	80	88	86	88	90	82	83	98	73	35 (GV)
..nganese (mg/L)	0.447	0.356	0.73	0.39	0.39	0.28	0.36	0.37	0.35	0.35	0.45	0.4	0.4	0.36	0.45	0.46	0.35	0.36	0.47	0.35	0.3*
..tassium (mg/L)	167	190	190	160	180	260	260	300	190	210	200	220	210	220	220	210	250	320	280	260	NS
Sodium (mg/L)	246	285	310	240	280	350	340	480	340	450	400	280	440	430	410	430	340	360	490	300	20
rt 360 Additional Baseline Metals																					
..uminum (mg/L)		0.854					2.1					1.8	0.7					0.74			NS
Antimony (mg/L)		<0.015					0.031					<0.01	<0.01					0.01			0.003
Arsenic (mg/L)		<0.01					<0.01					0.013	0.02					0.041			0.025
..rium (mg/L)		0.351					0.4					0.4	0.35					0.46			1
..ryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01			0.003 (GV)
Chromium (mg/L)		<0.005					0.019					0.012	<0.01					0.015			0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
..balt (mg/L)		<0.02					0.014					0.012	<0.01					0.012			NS
..pper (mg/L)		<0.01					0.014					<0.01	<0.01					<0.01			0.2
Mercury (mg/L)		<0.0002					<0.0002					0.0003	0.005					<0.0002			0.0007
Nickel (mg/L)		<0.03					0.039					0.031	0.024					0.036			0.1
..lenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01			0.01
..ver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01			0.05
Thallium (mg/L)		<0.01					<0.01					<0.1	<0.01					0.014			0.0005 (GV)
Vanadium (mg/L)		<0.3					0.02					0.02	0.012					0.023			NS
..nc (mg/L)		0.0388					0.13					0.071	0.022					0.046			2
Part 360 Volatile Organics																					
1,1,1,2-Tetrachloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
..,1-Trichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
..,2,2-Tetrachloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
1,1,2-Trichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,1-Dichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
..-Dichloroethene (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
..,3-Trichloropropane (μg/L)							<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromo-3-chloropropane (μg/L)		<10.0					<5.0					<5.0	<5.0					<5			0.04
1,2-Dibromoethane (EDB) (μg/L)		<5.0					<5.0					<5.0	<5.0					<5			5

City of Rome
Tannery Road Landfill
Leachate Well MW-12
Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	NYSDEC Ground Water Standard
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			1
1,3-Dichlorobenzene (µg/L)		<5.0																			3
1,4-Dichloro-2-butene (µg/L)		<10.0																			5
1,4-Dichlorobenzene (µg/L)		1					<5.0					<5.0	<5.0					<5			3
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10			NS
Acetone (µg/L)		<10.0					15					<10.0	16				11	13			50 (GV)
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20			5
Benzene (µg/L)		10					43					33	35				40	34			1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5			50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Carbon disulfide (µg/L)		<68					<5.0					<5.0	<5.0				<5	<5			60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			50 (GV)
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Ethyl benzene (µg/L)		2					<5.0					<5.0	<5.0				<5	<5			5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10			5
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10			5
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5			5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10			5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5			5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20			NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5			2
Xylenes (Total) (µg/L)		15					41					26	17				11	<5			5
1,2-Dichloroethene - Total																	<5				

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

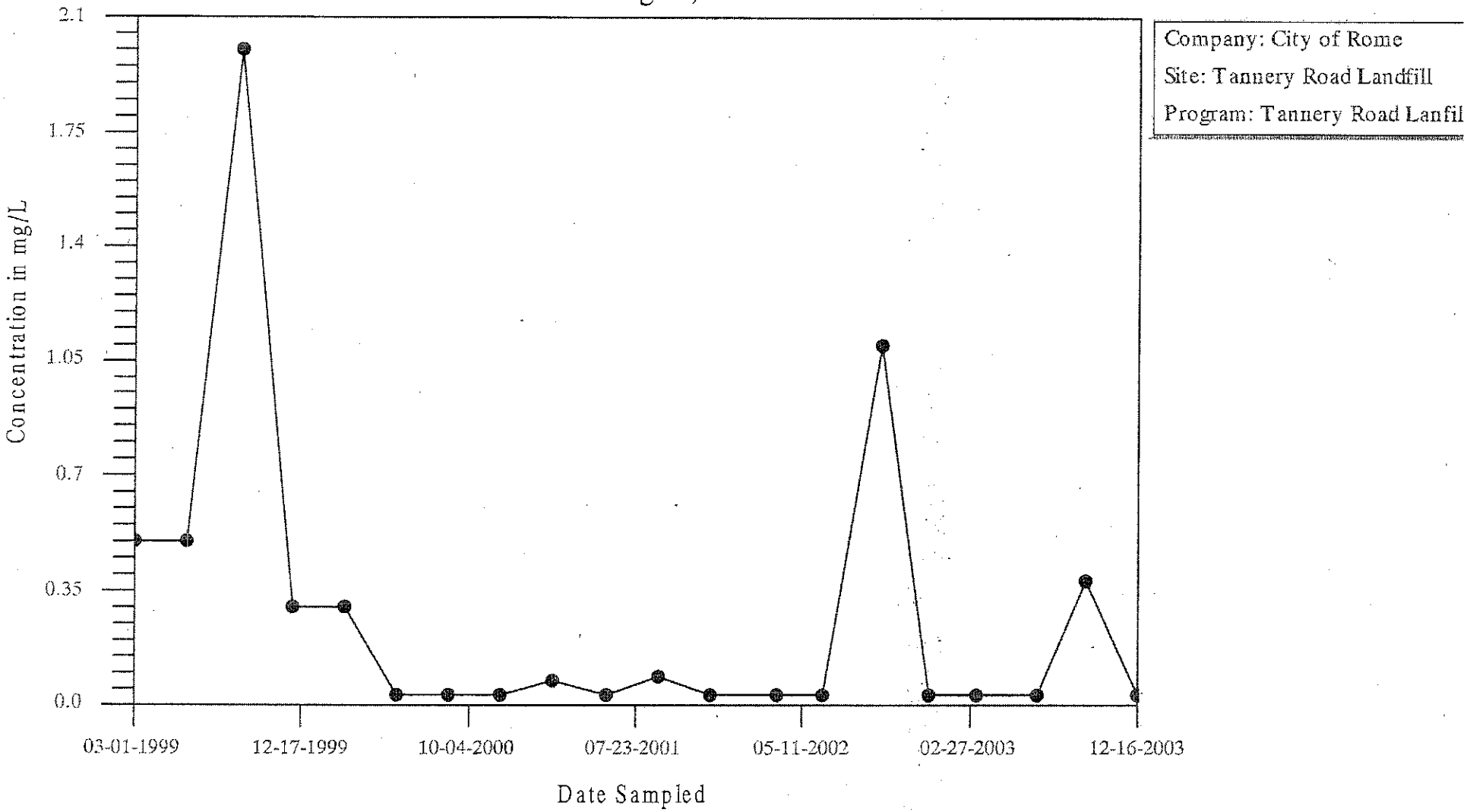
APPENDIX B

MONITORING WELL AND LEACHATE WELL

TIME SERIES CONCENTRATION GRAPHS

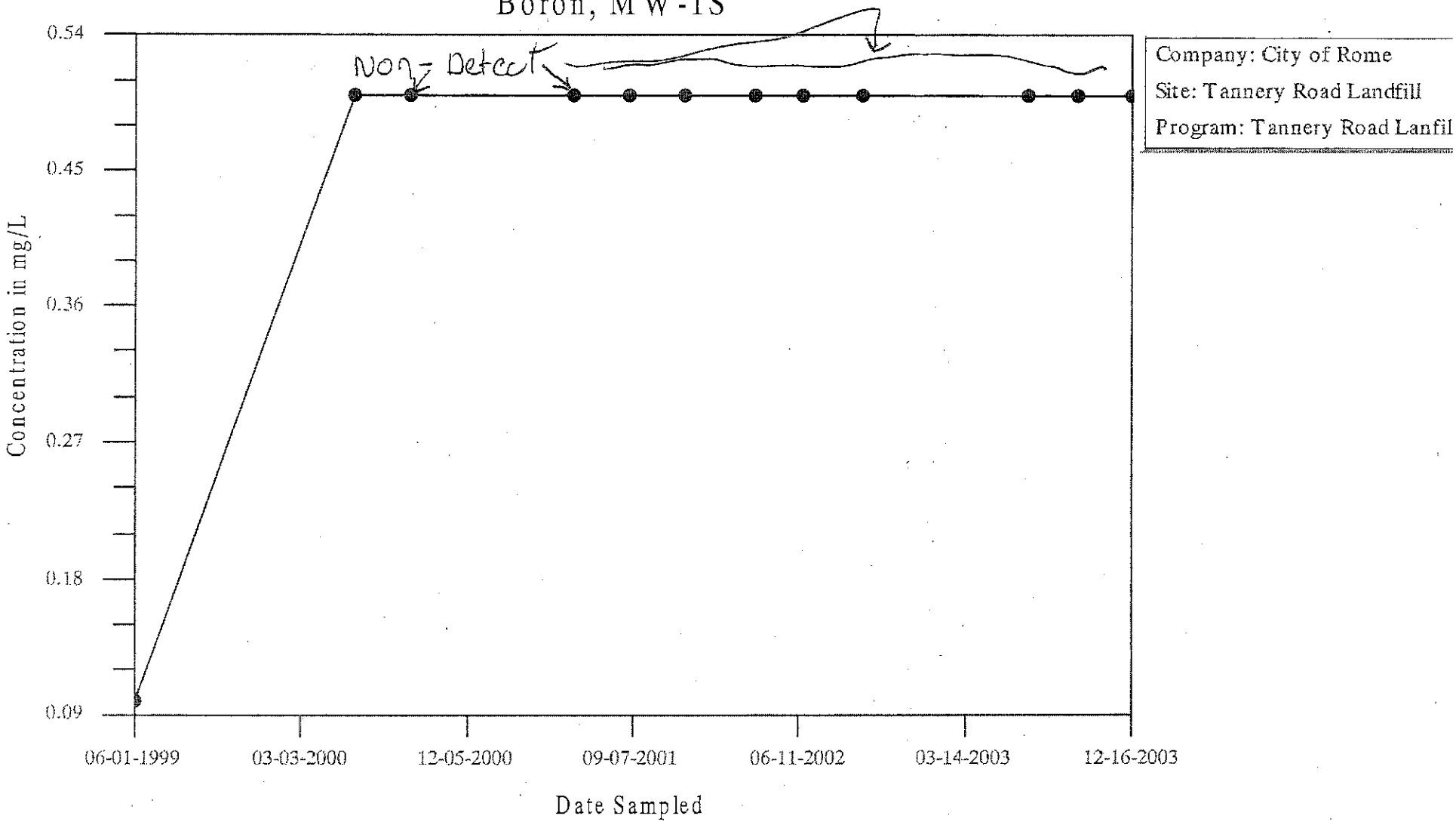
Time-Series Plot

Ammonia-Nitrogen, MW-1S



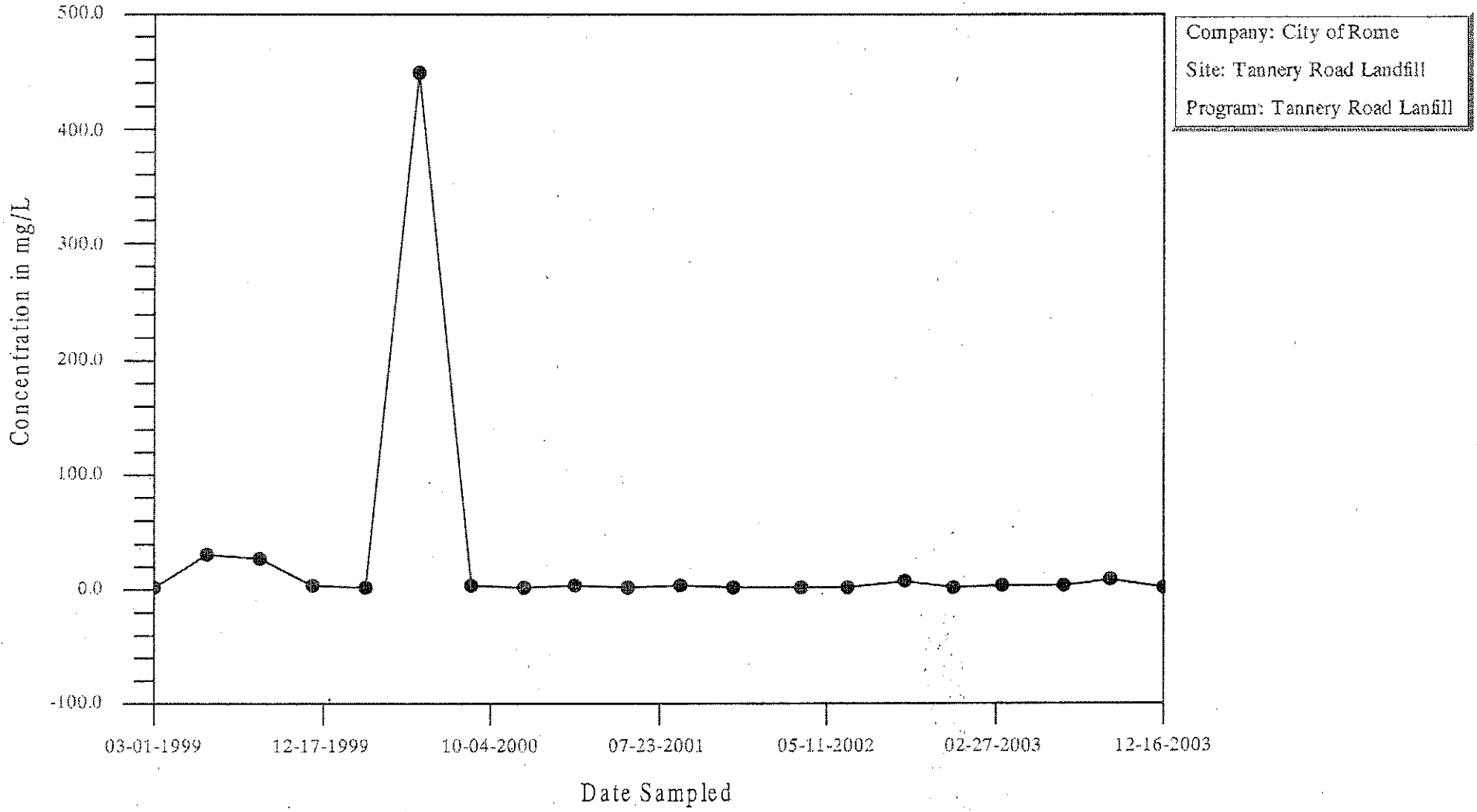
Time-Series Plot

Boron, MW-1S



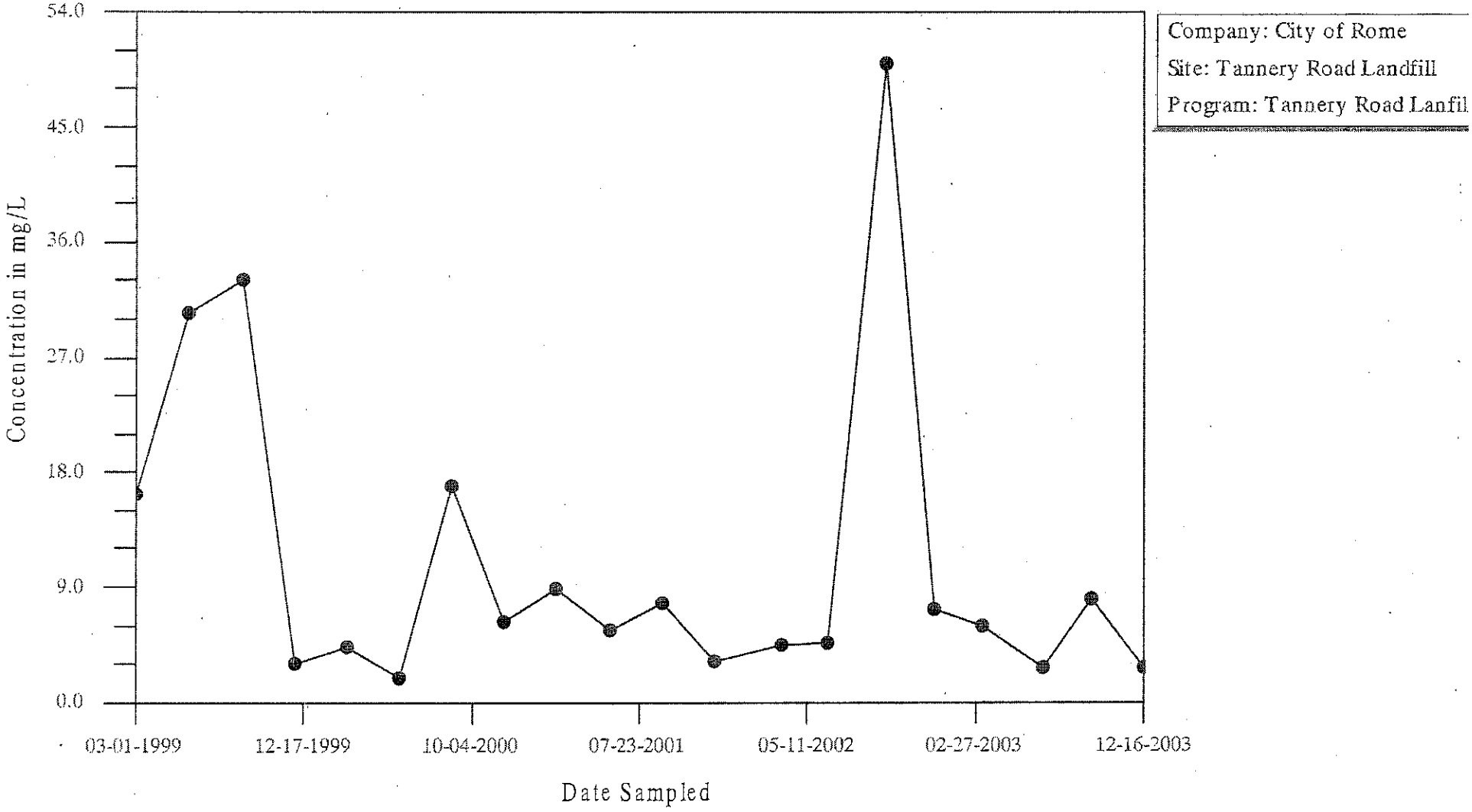
Time-Series Plot

Chloride, MW-1S



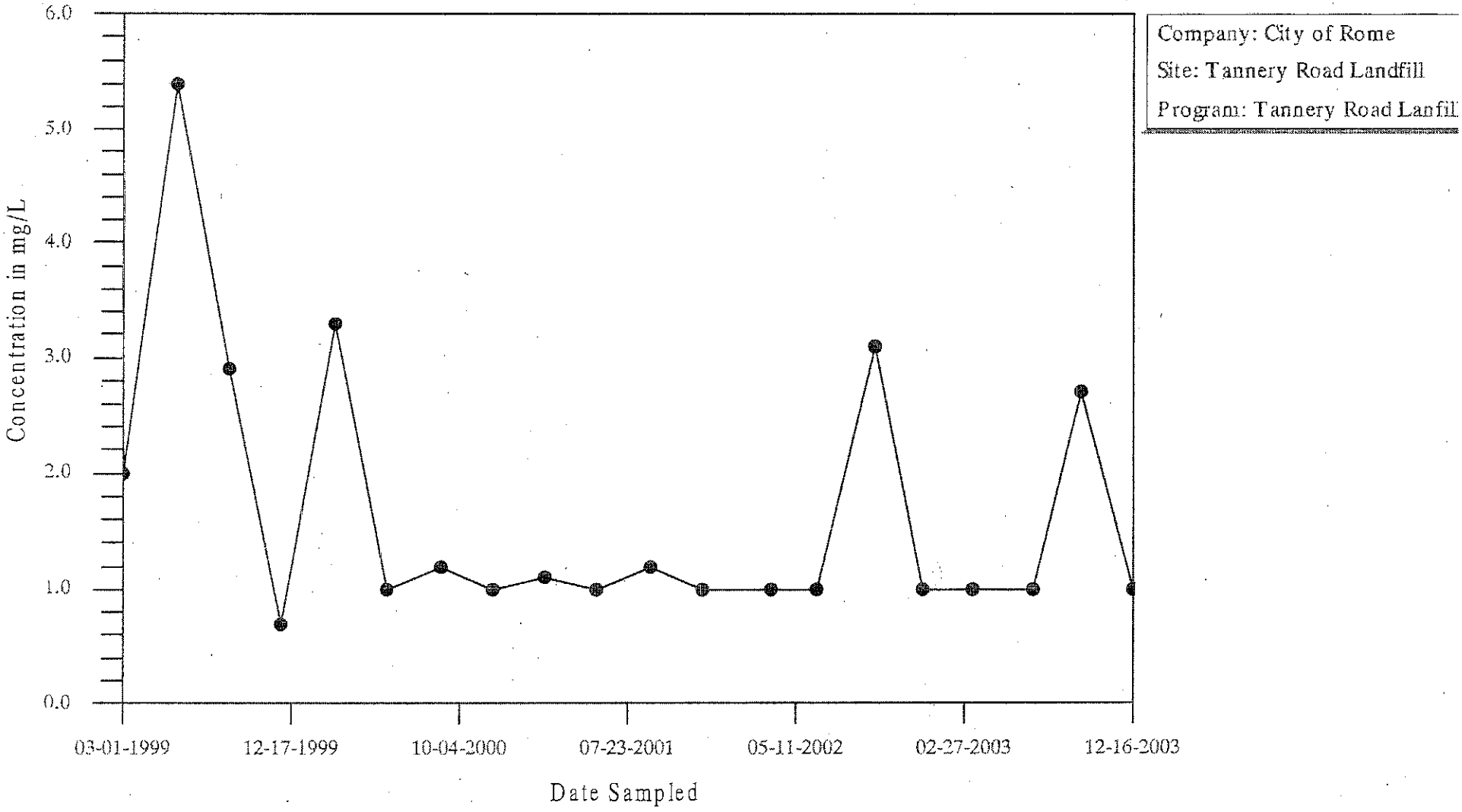
Time-Series Plot

Iron, MW-1S



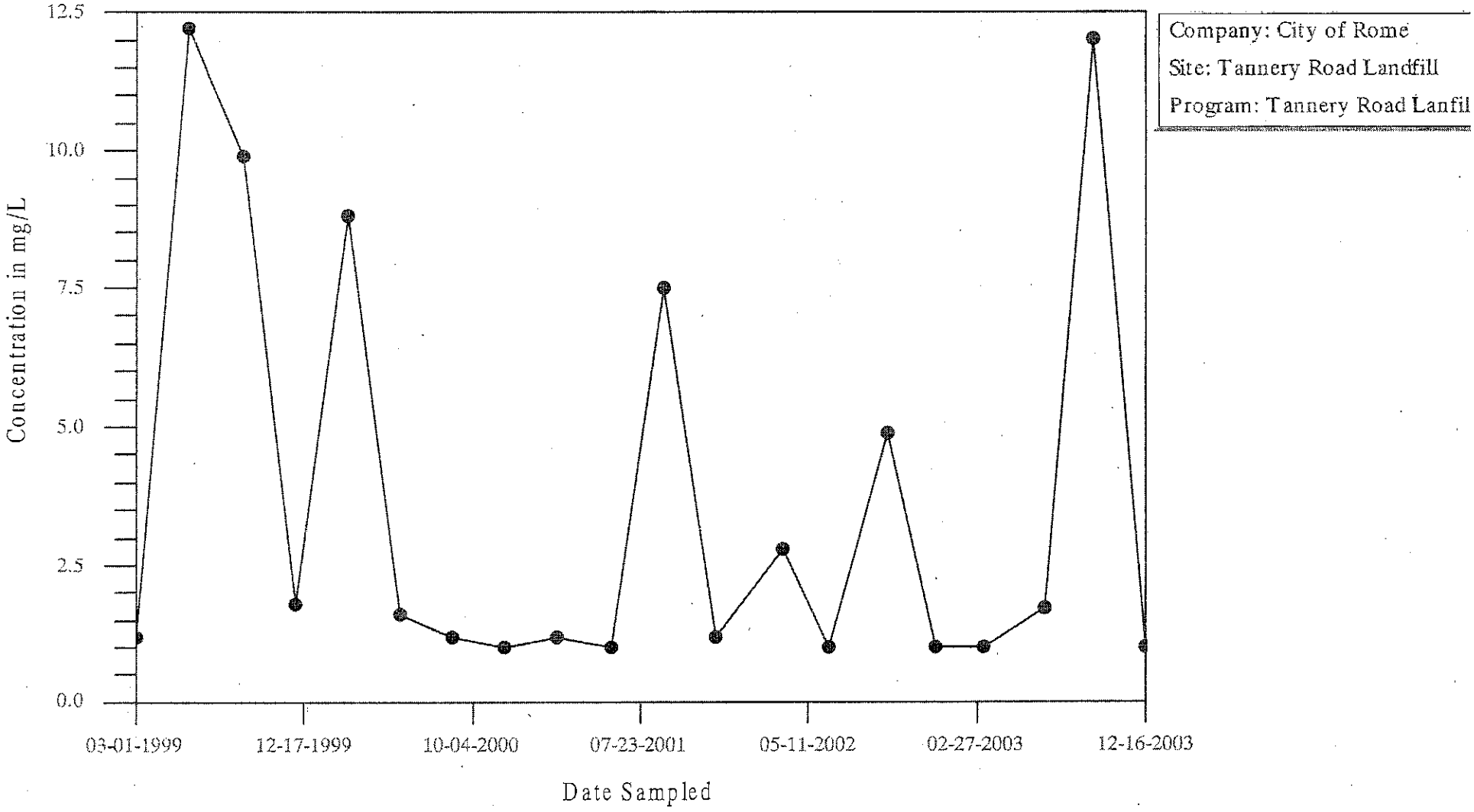
Time-Series Plot

Potassium, MW-1S



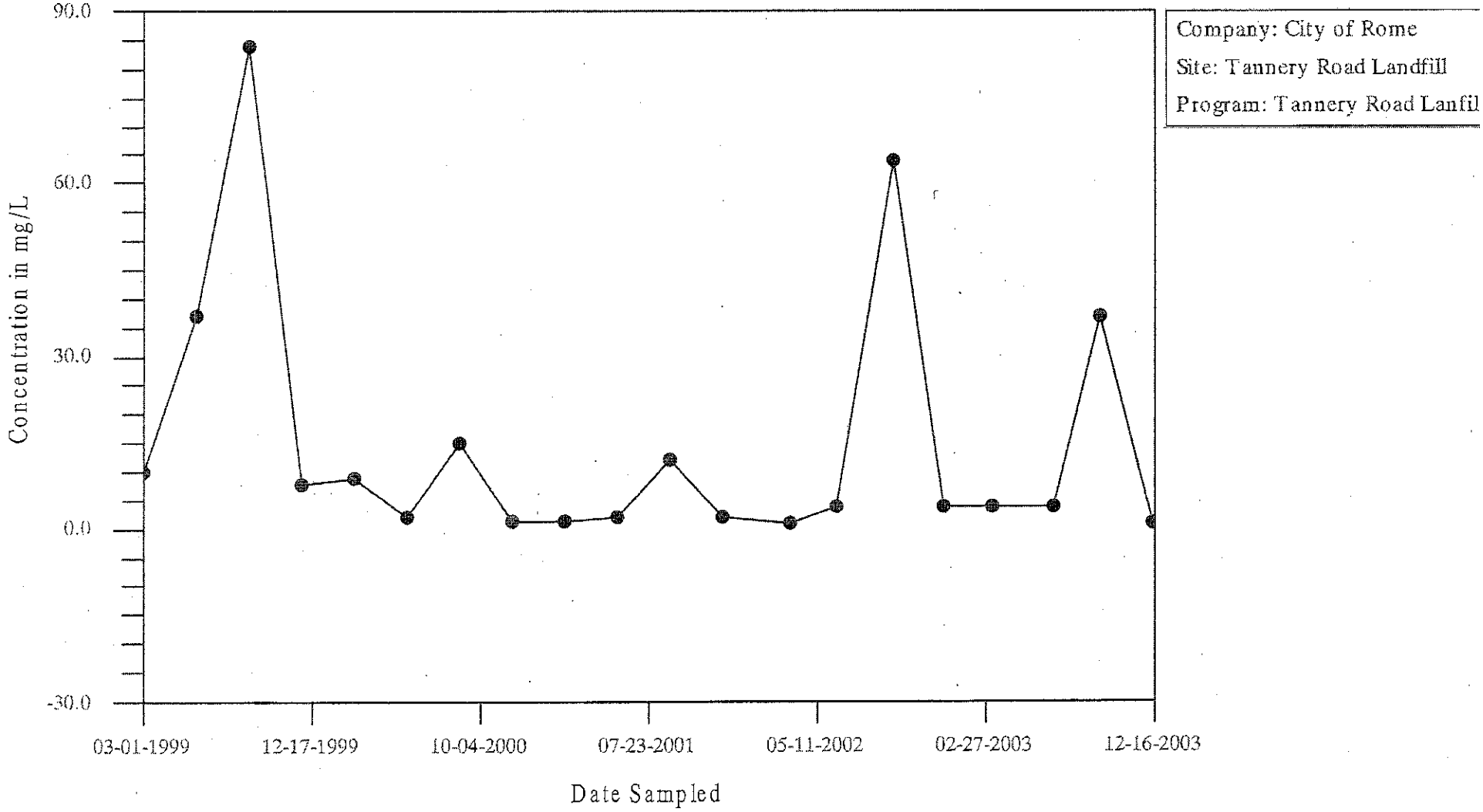
Time-Series Plot

Sodium, MW-1S



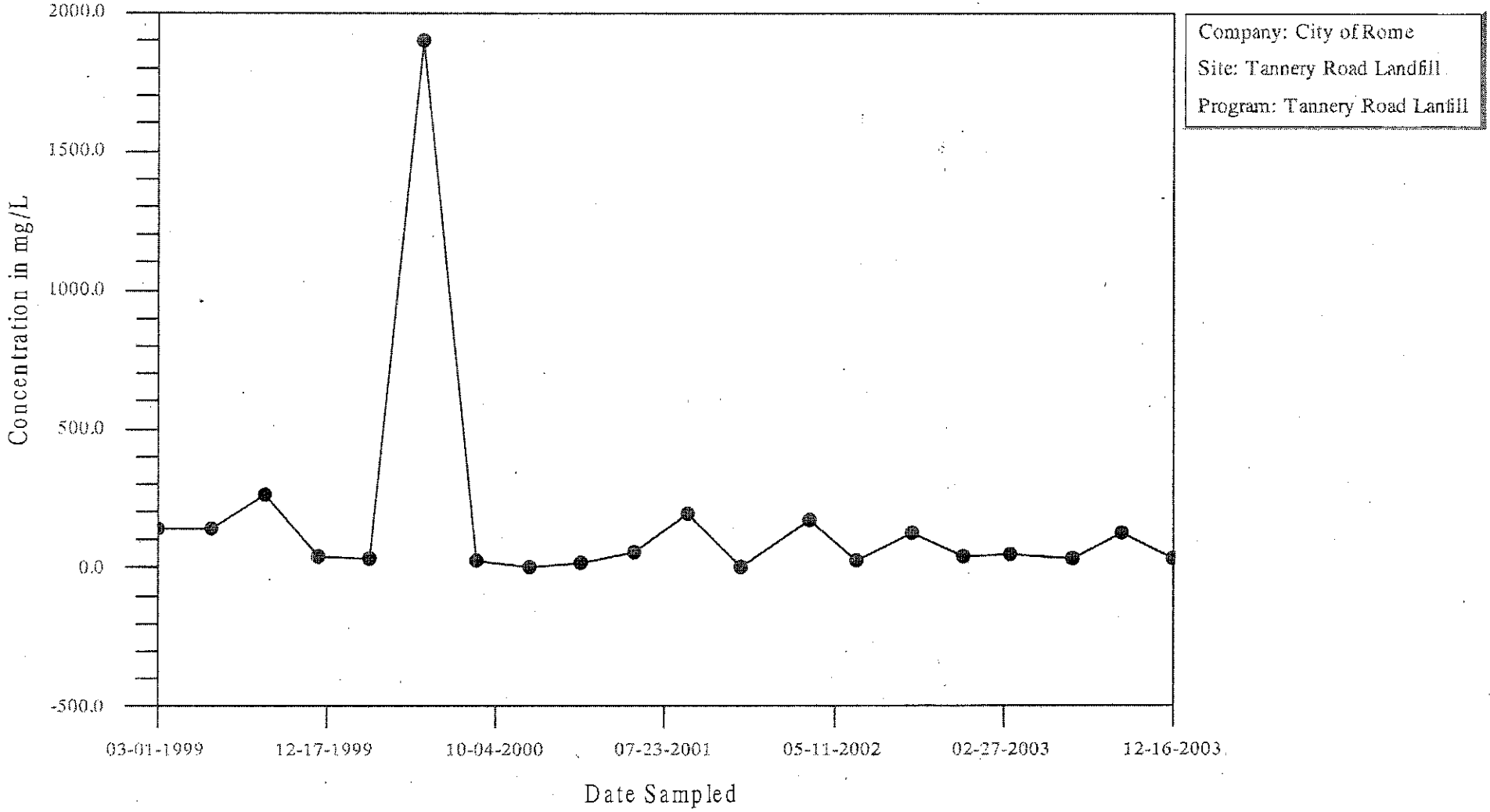
Time-Series Plot

Total Alkalinity, MW-1S



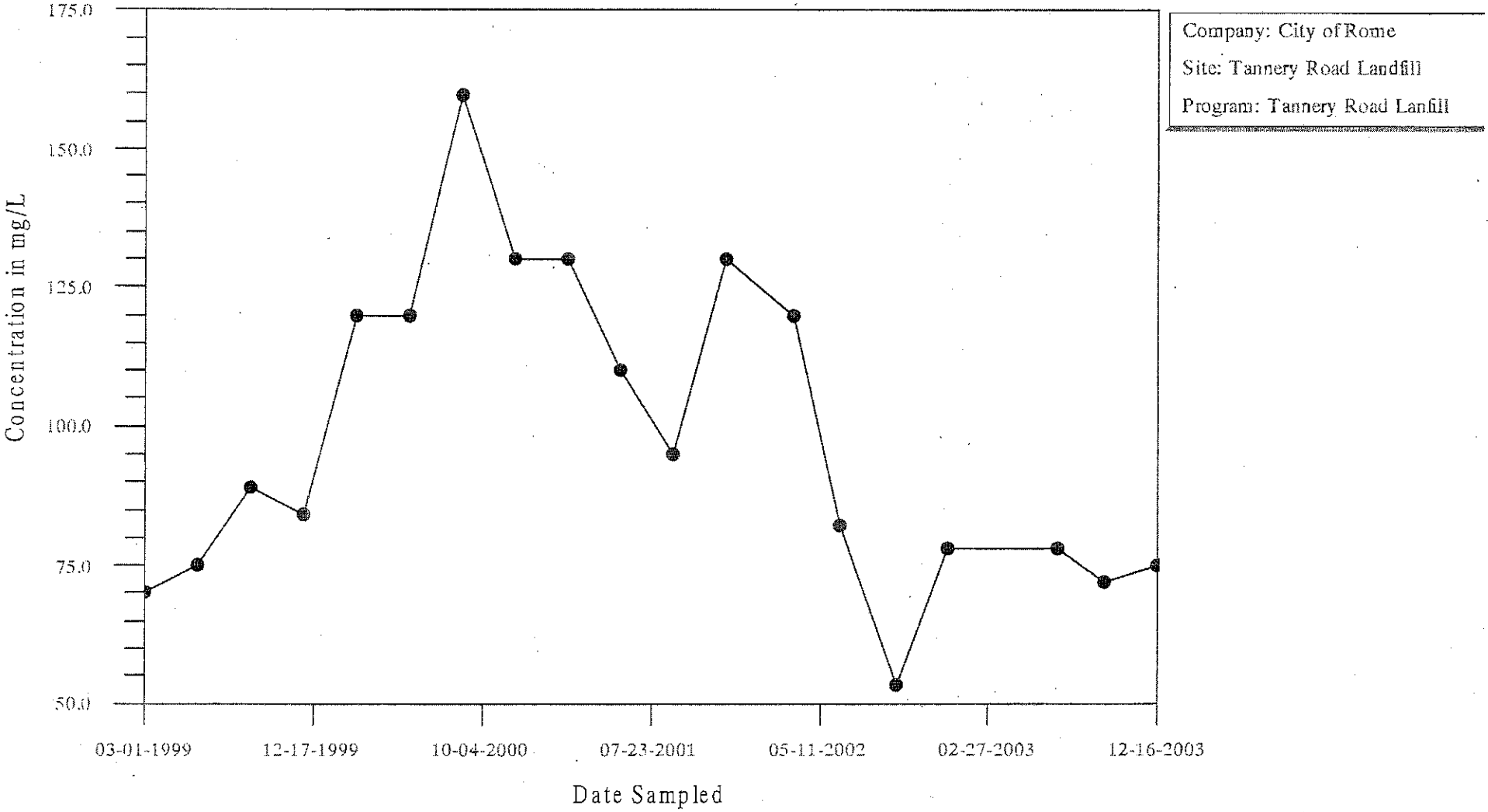
Time-Series Plot

Total Dissolved Solids, MW-1S



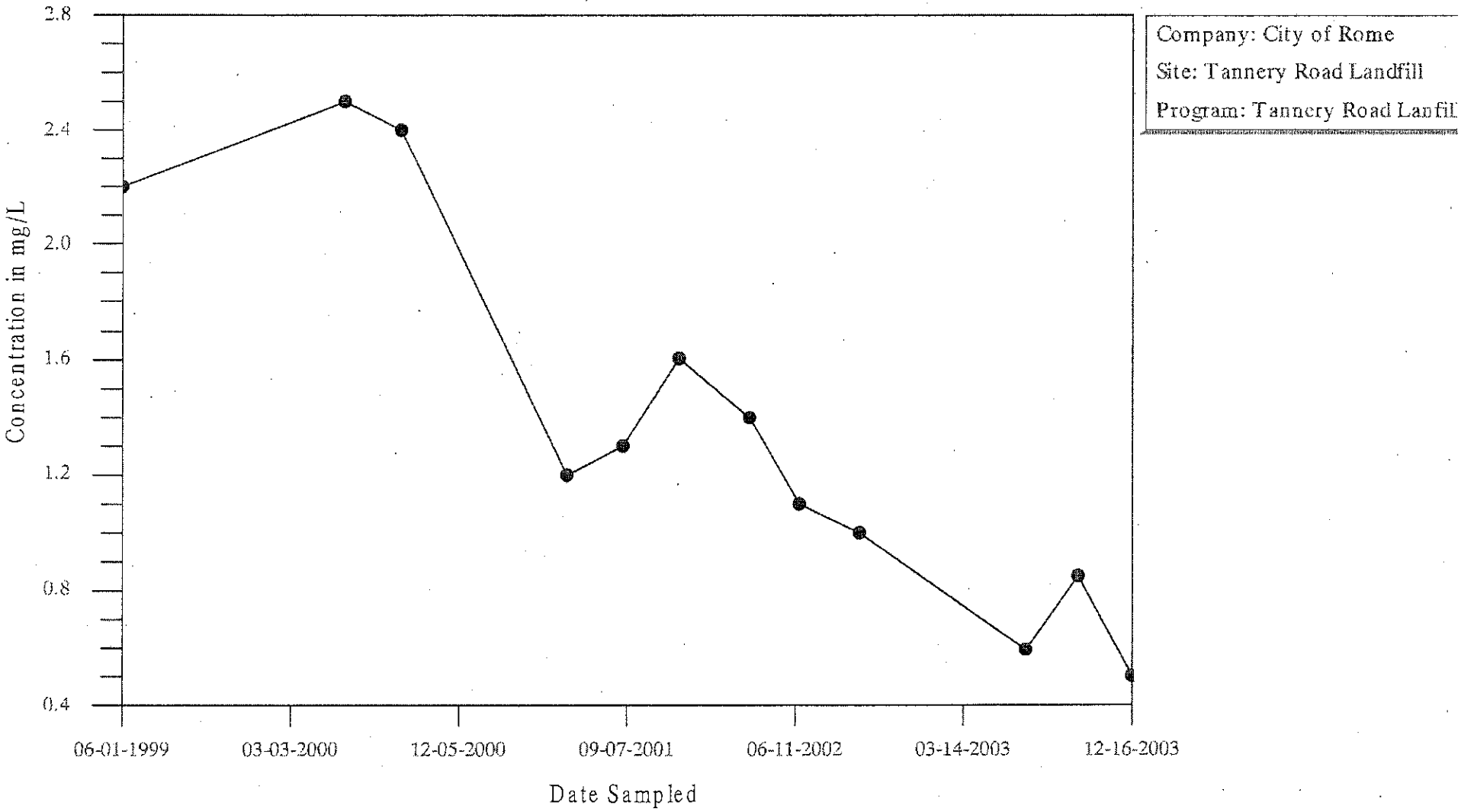
Time-Series Plot

Ammonia-Nitrogen, MW-3S



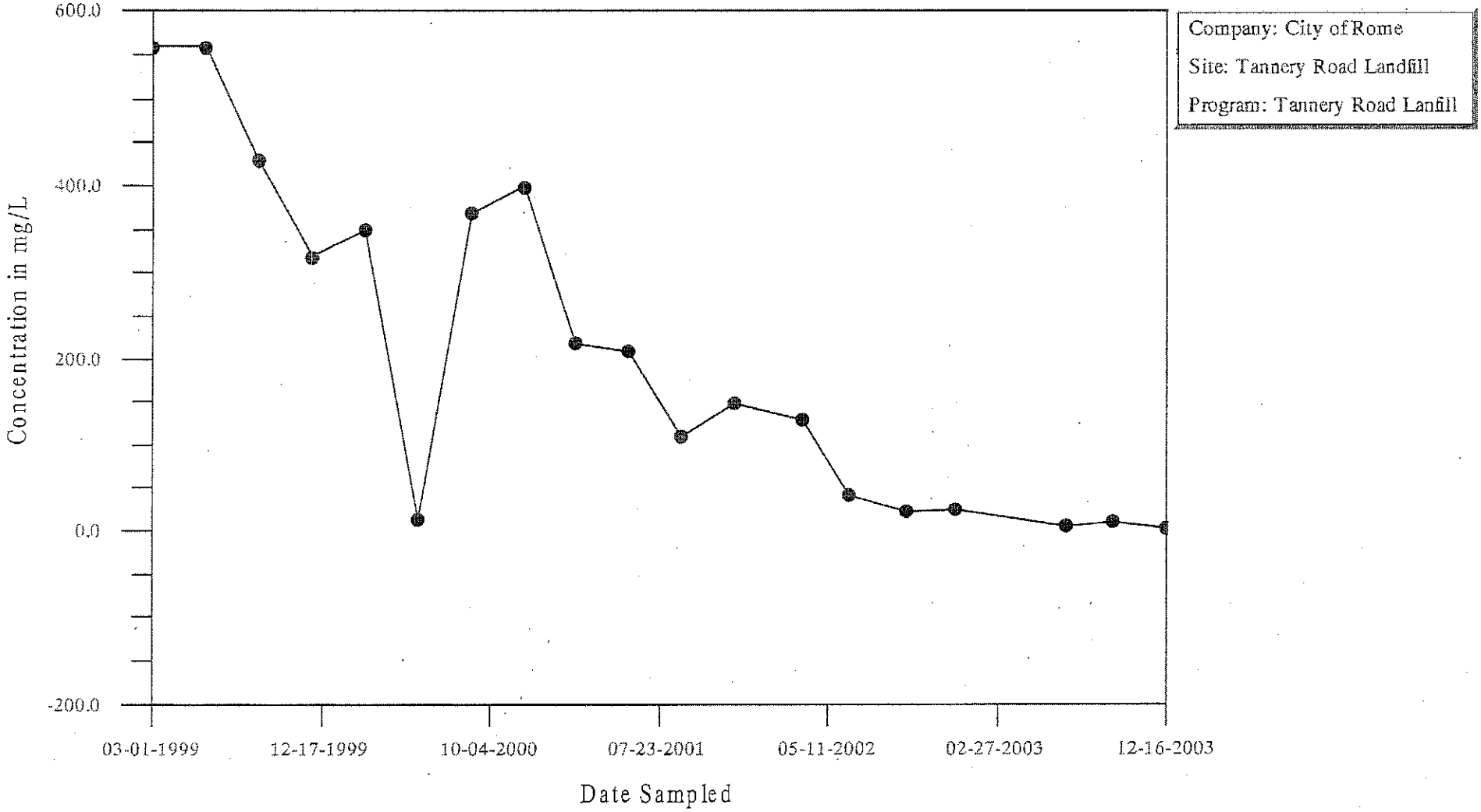
Time-Series Plot

Boron, MW-3S



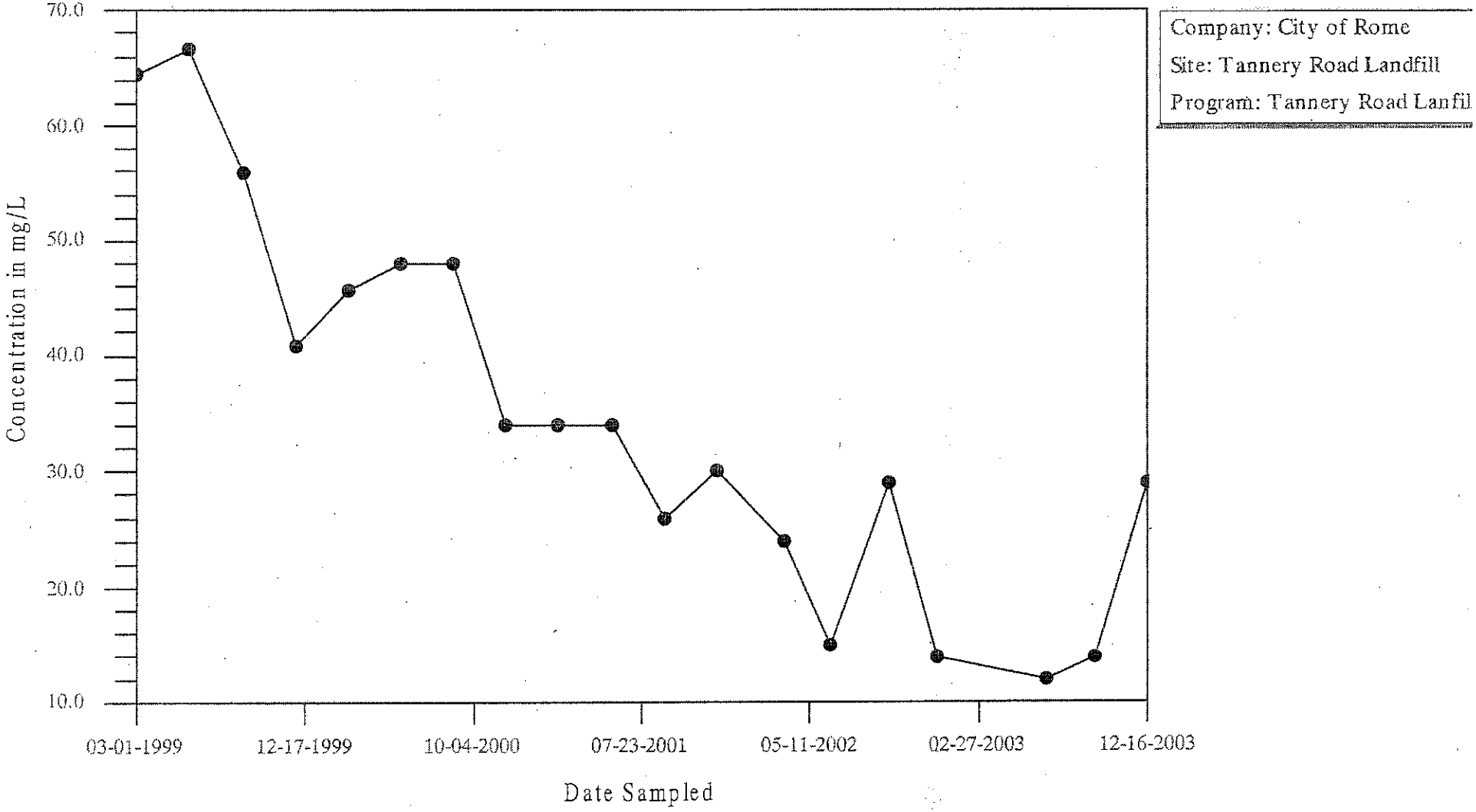
Time-Series Plot

Chloride, MW-3S



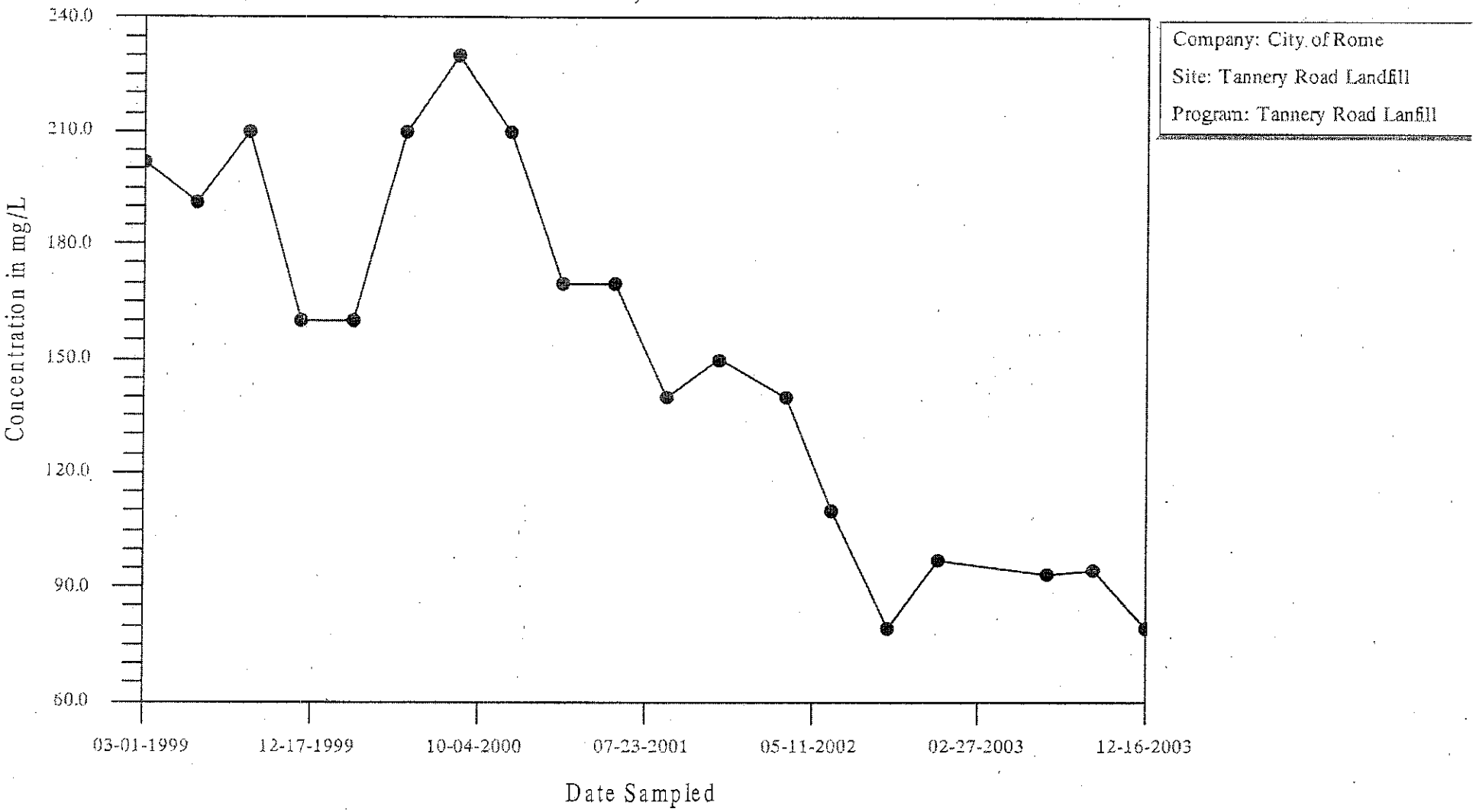
Time-Series Plot

Iron, MW-3S



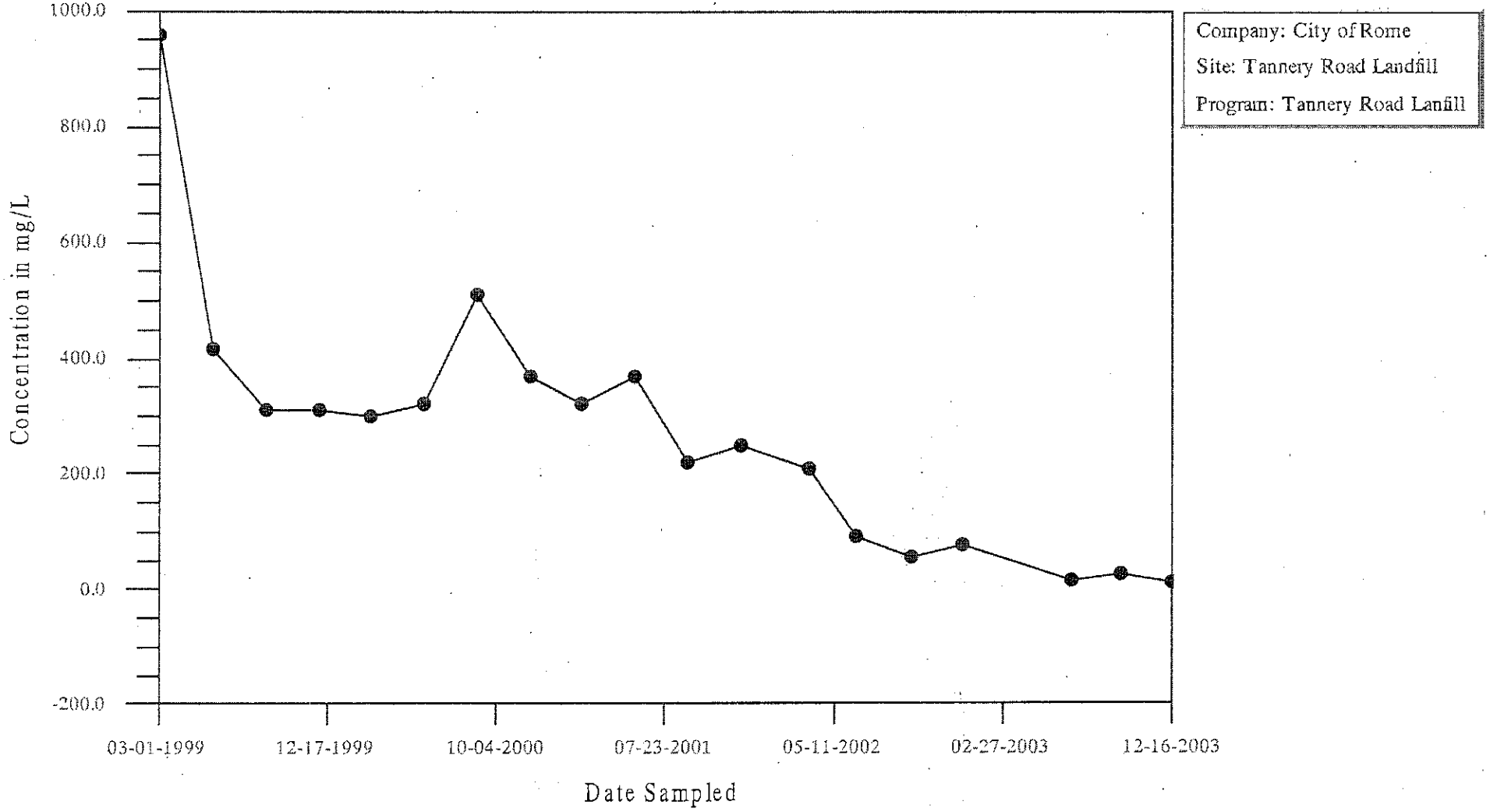
Time-Series Plot

Potassium, MW-3S



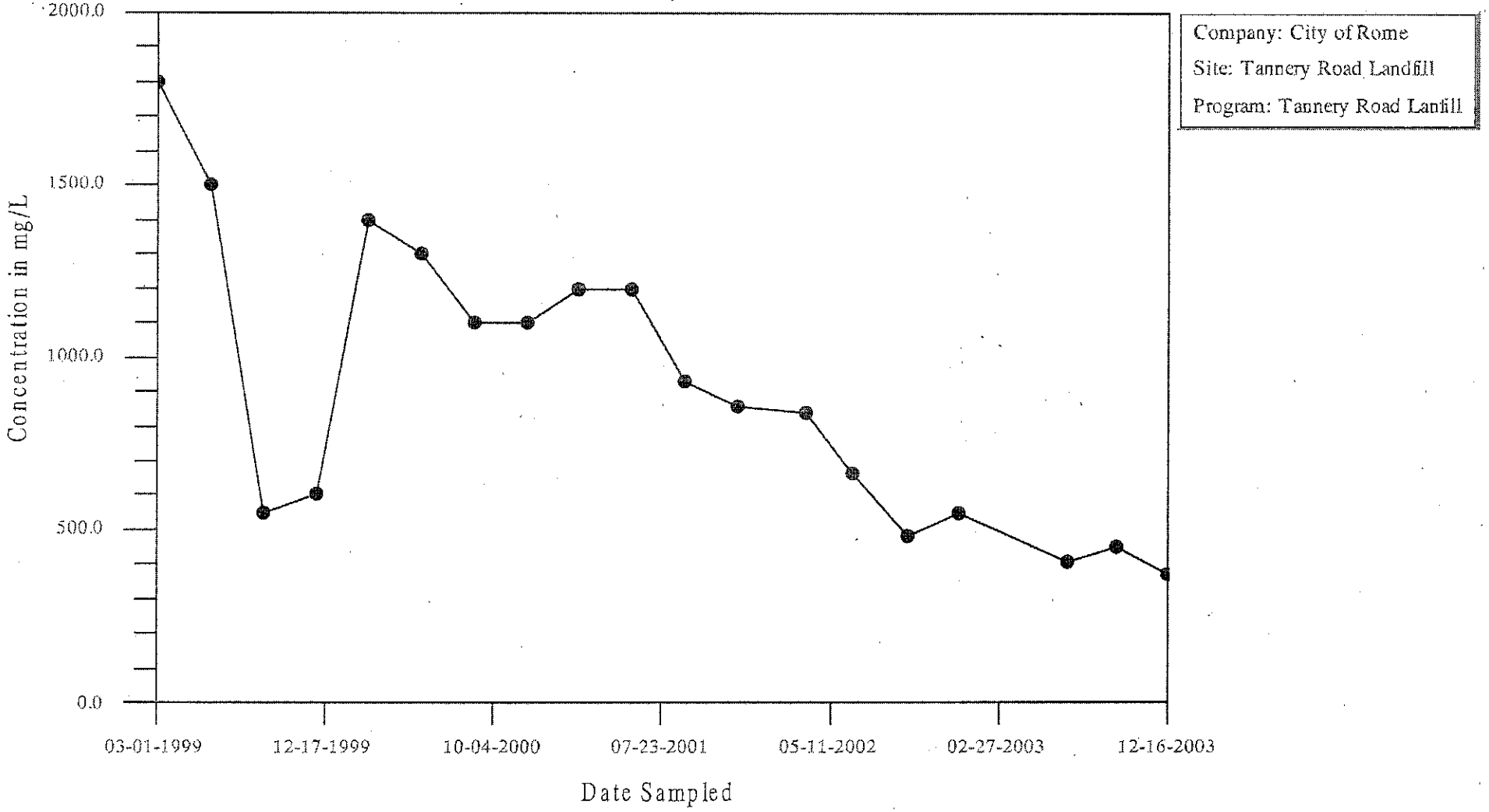
Time-Series Plot

Sodium, MW-3S



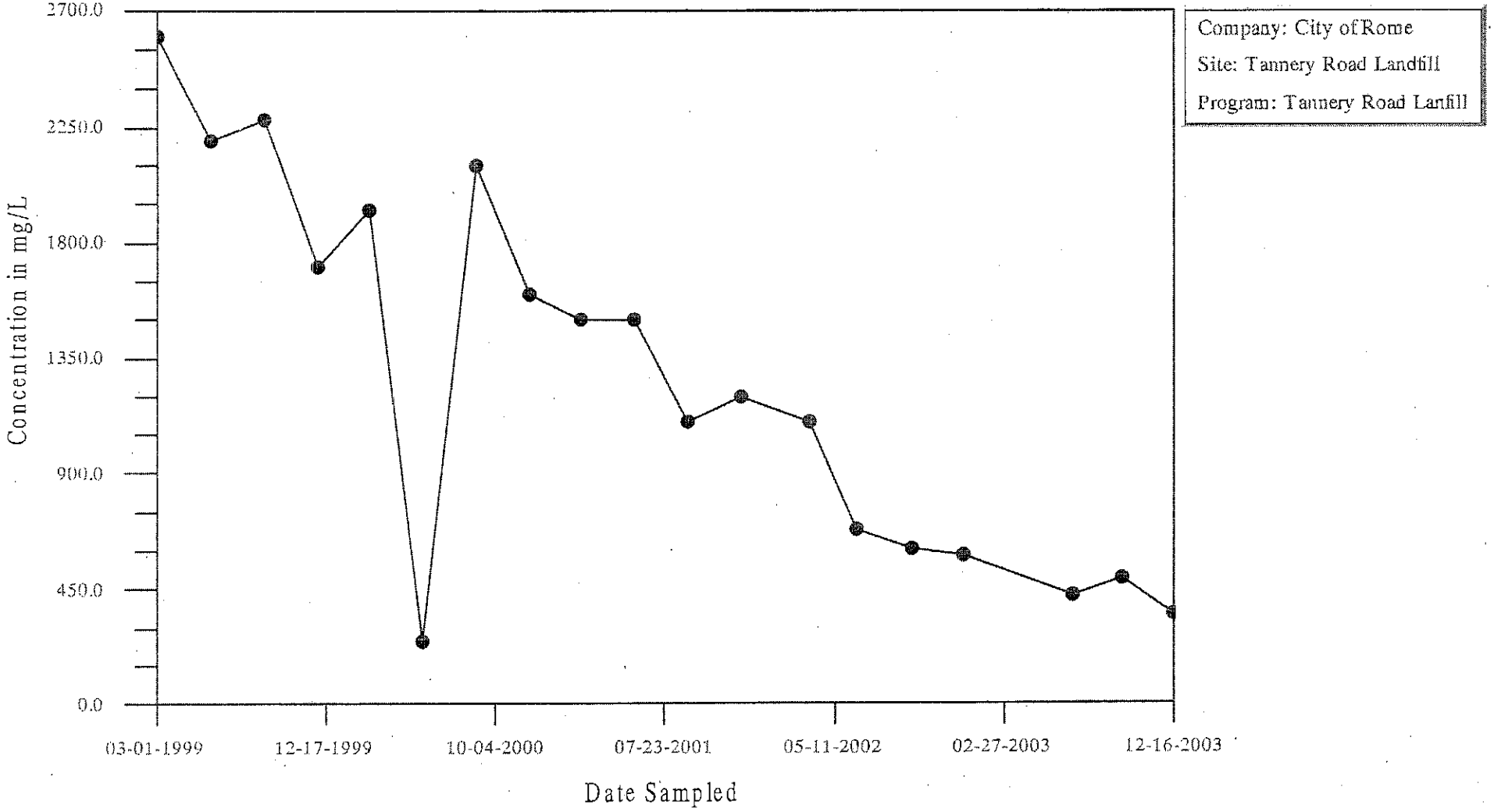
Time-Series Plot

Total Alkalinity, MW-3S



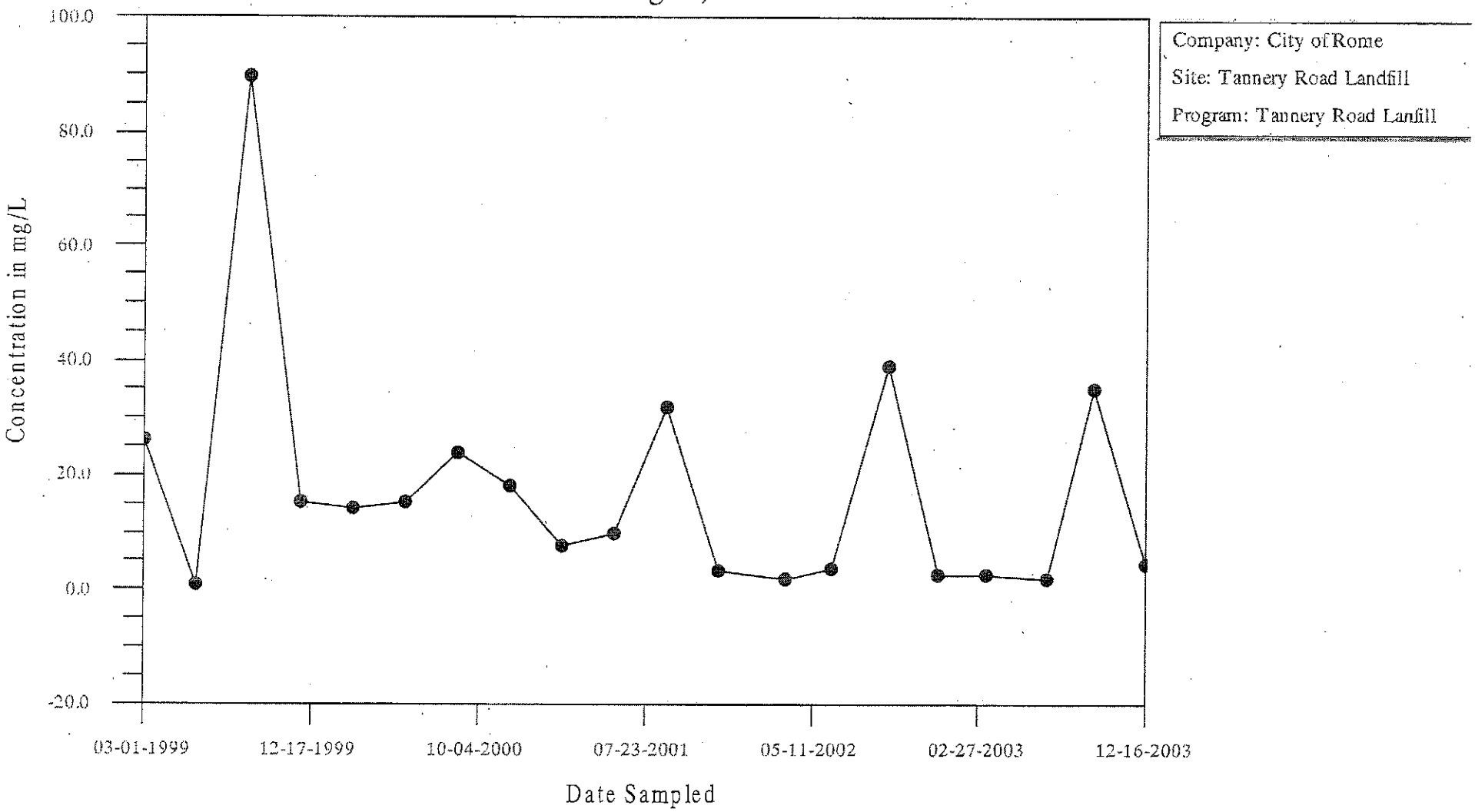
Time-Series Plot

Total Dissolved Solids, MW-3S



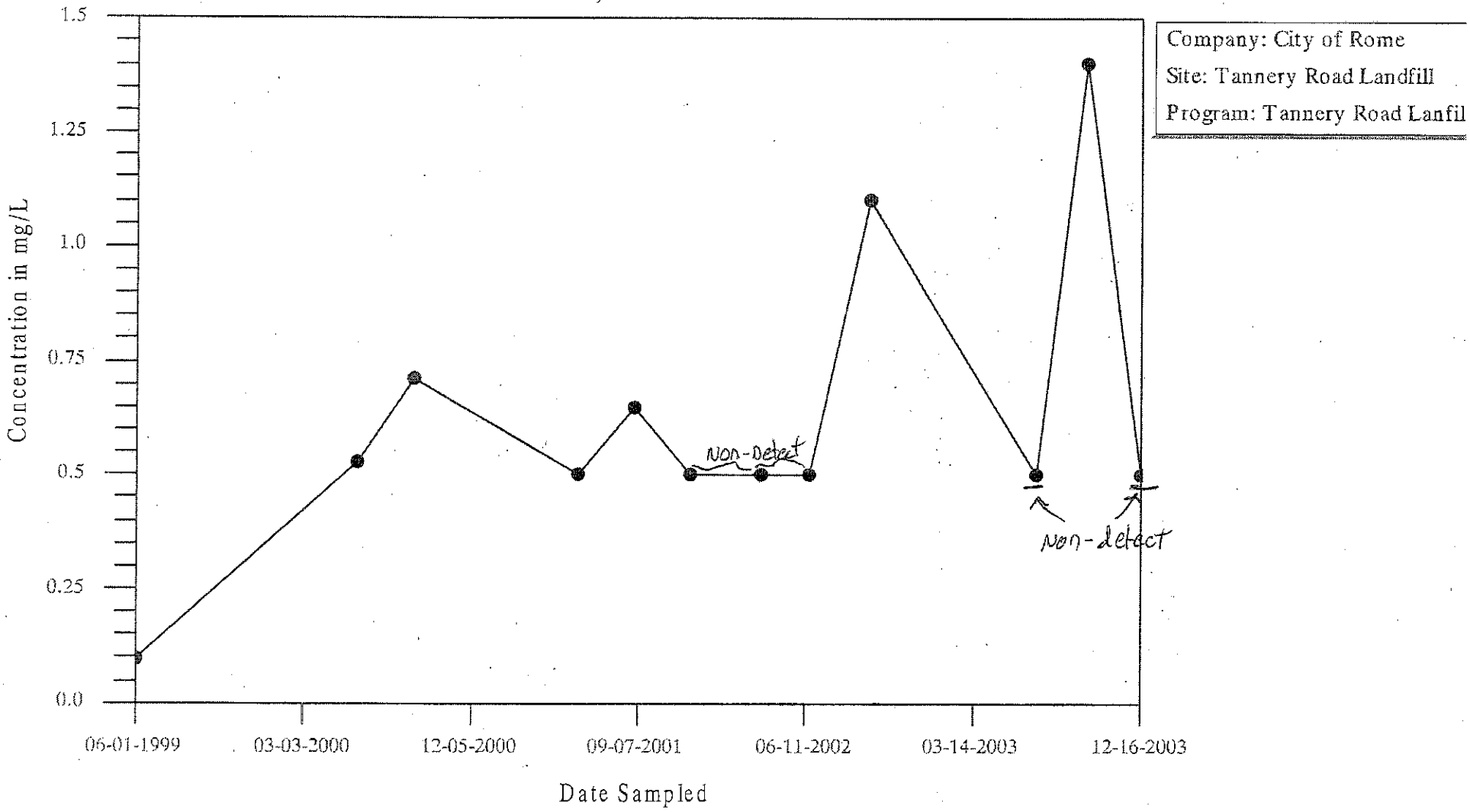
Time-Series Plot

Ammonia-Nitrogen, MW-4S



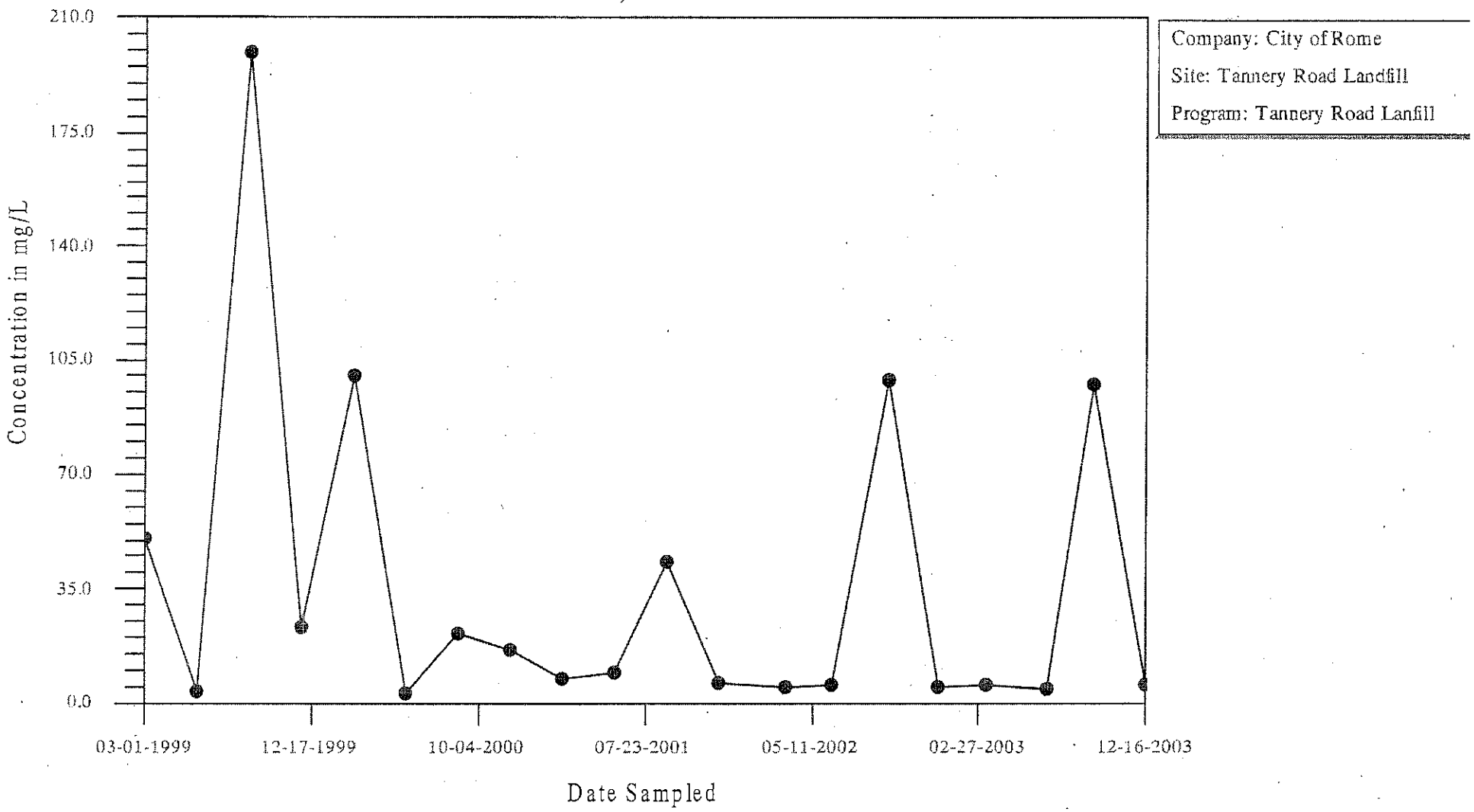
Time-Series Plot

Boron, MW-4S



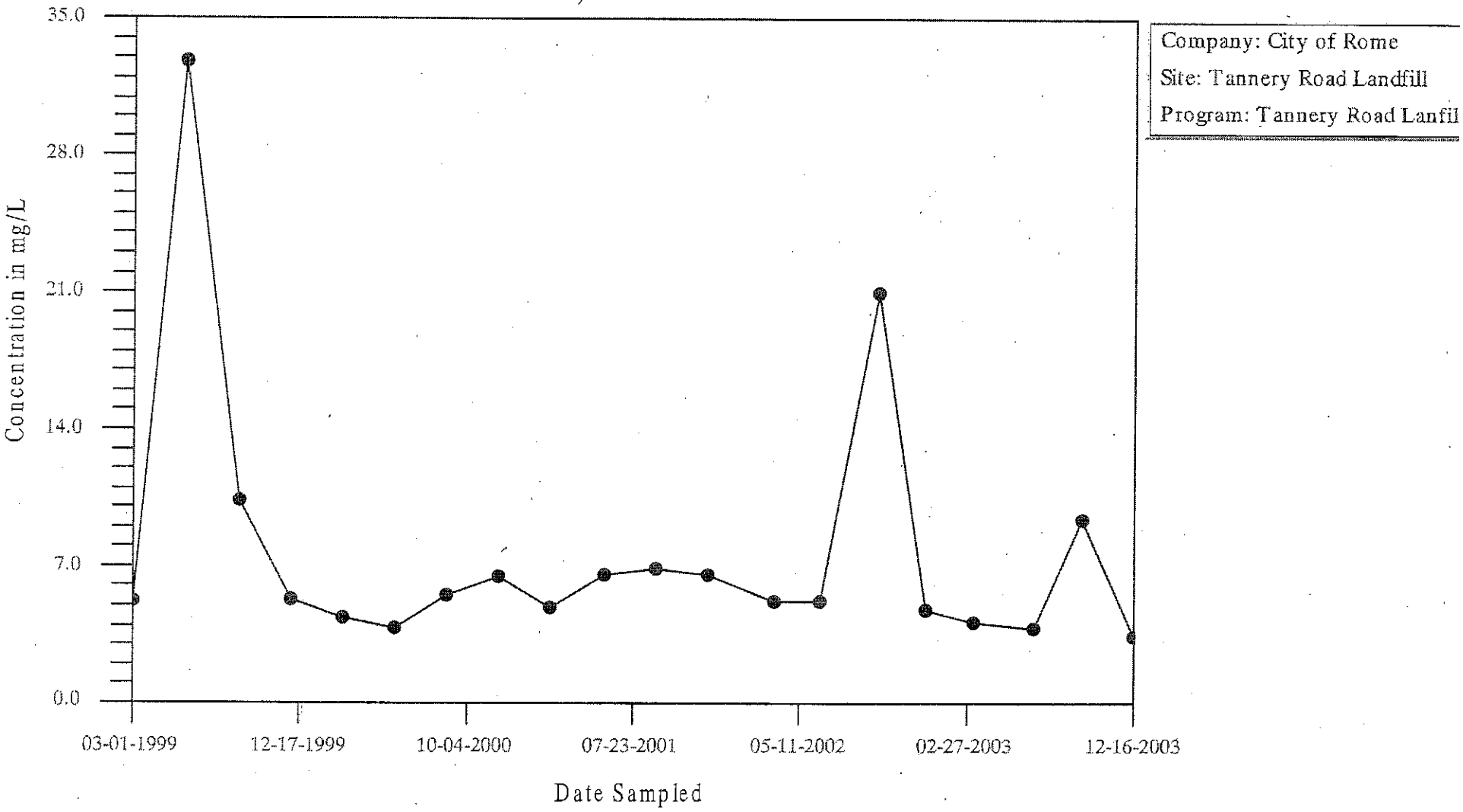
Time-Series Plot

Chloride, MW-4S



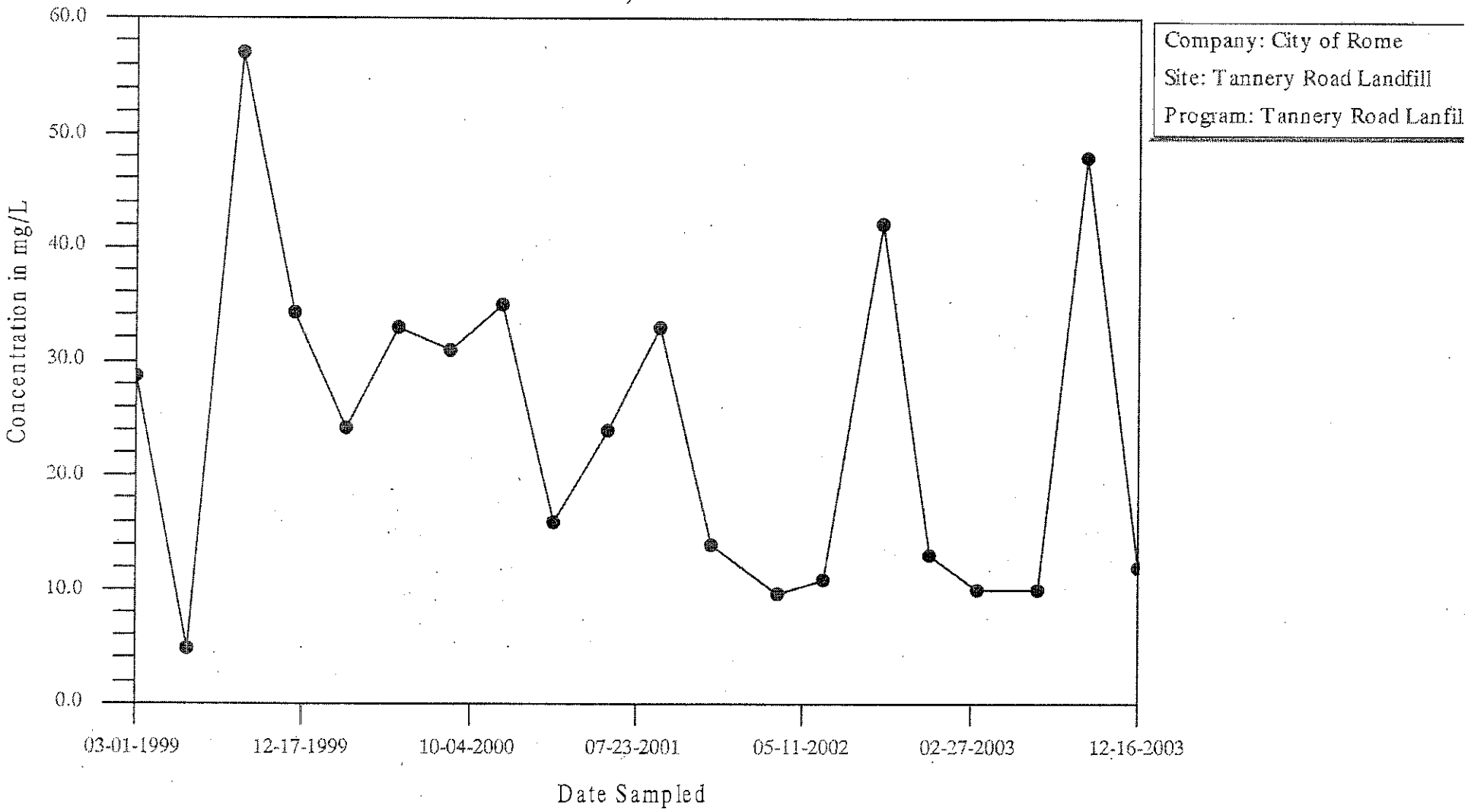
Time-Series Plot

Iron, MW-4S



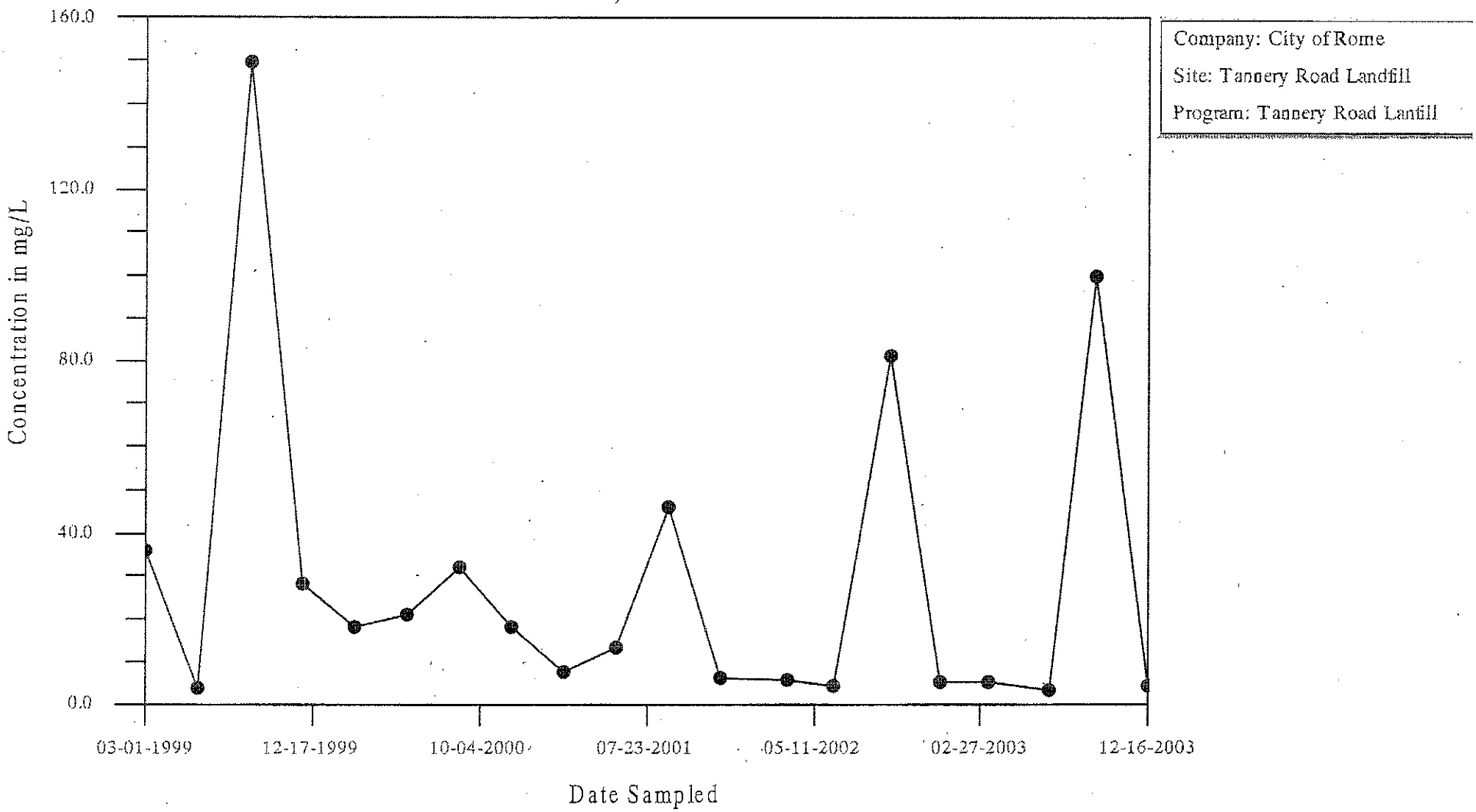
Time-Series Plot

Potassium, MW-4S



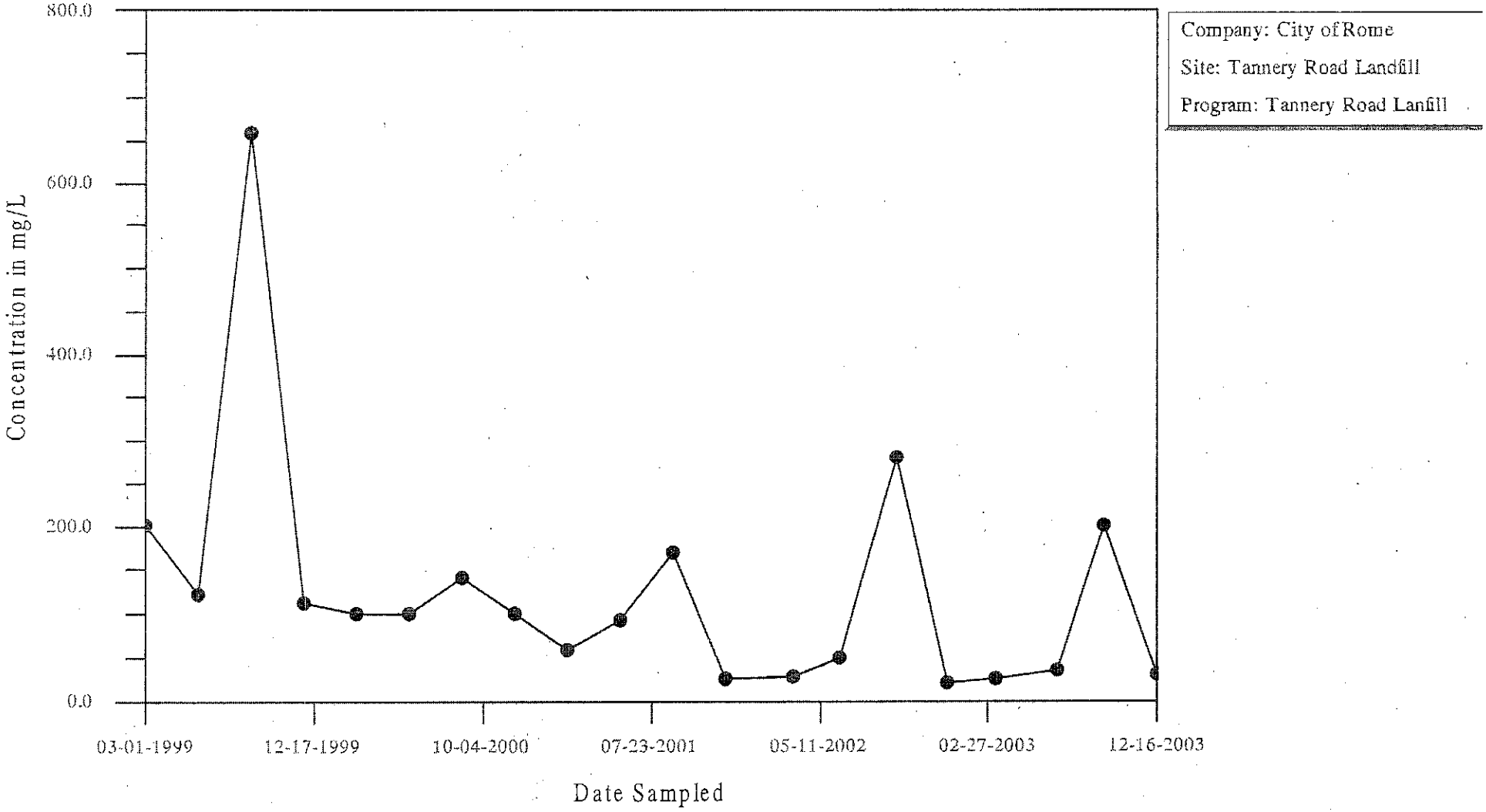
Time-Series Plot

Sodium, MW-4S



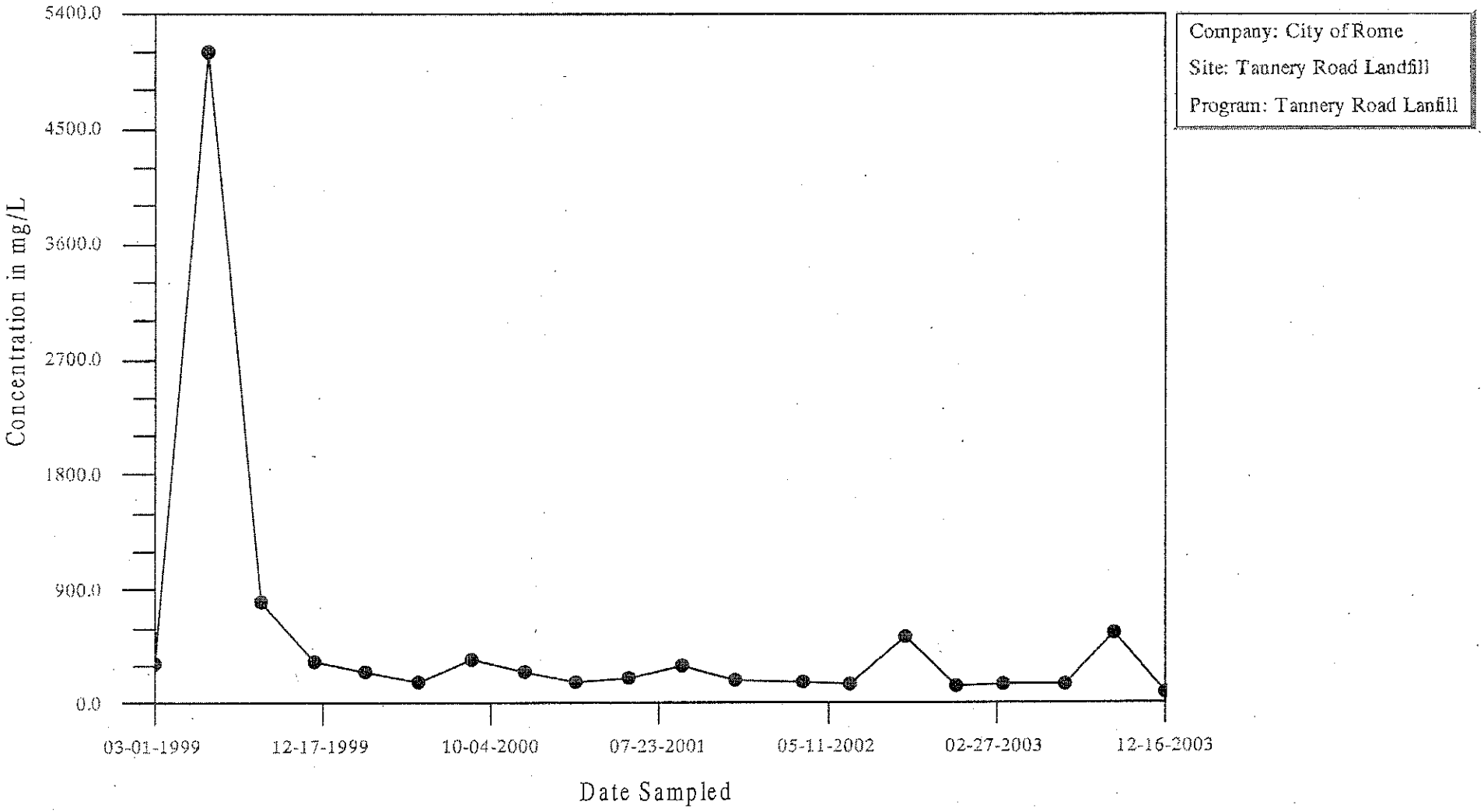
Time-Series Plot

Total Alkalinity, MW-4S



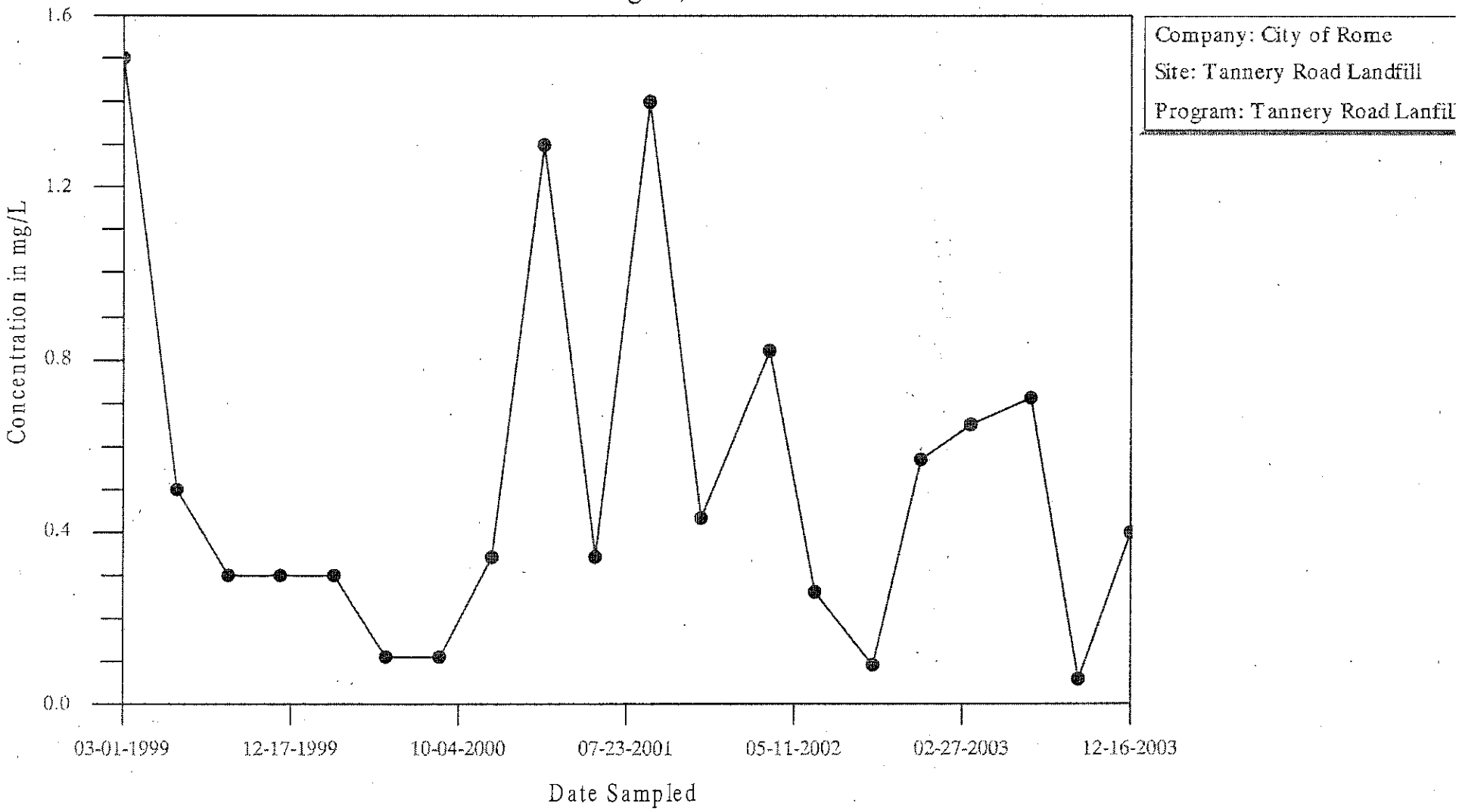
Time-Series Plot

Total Dissolved Solids, MW-4S



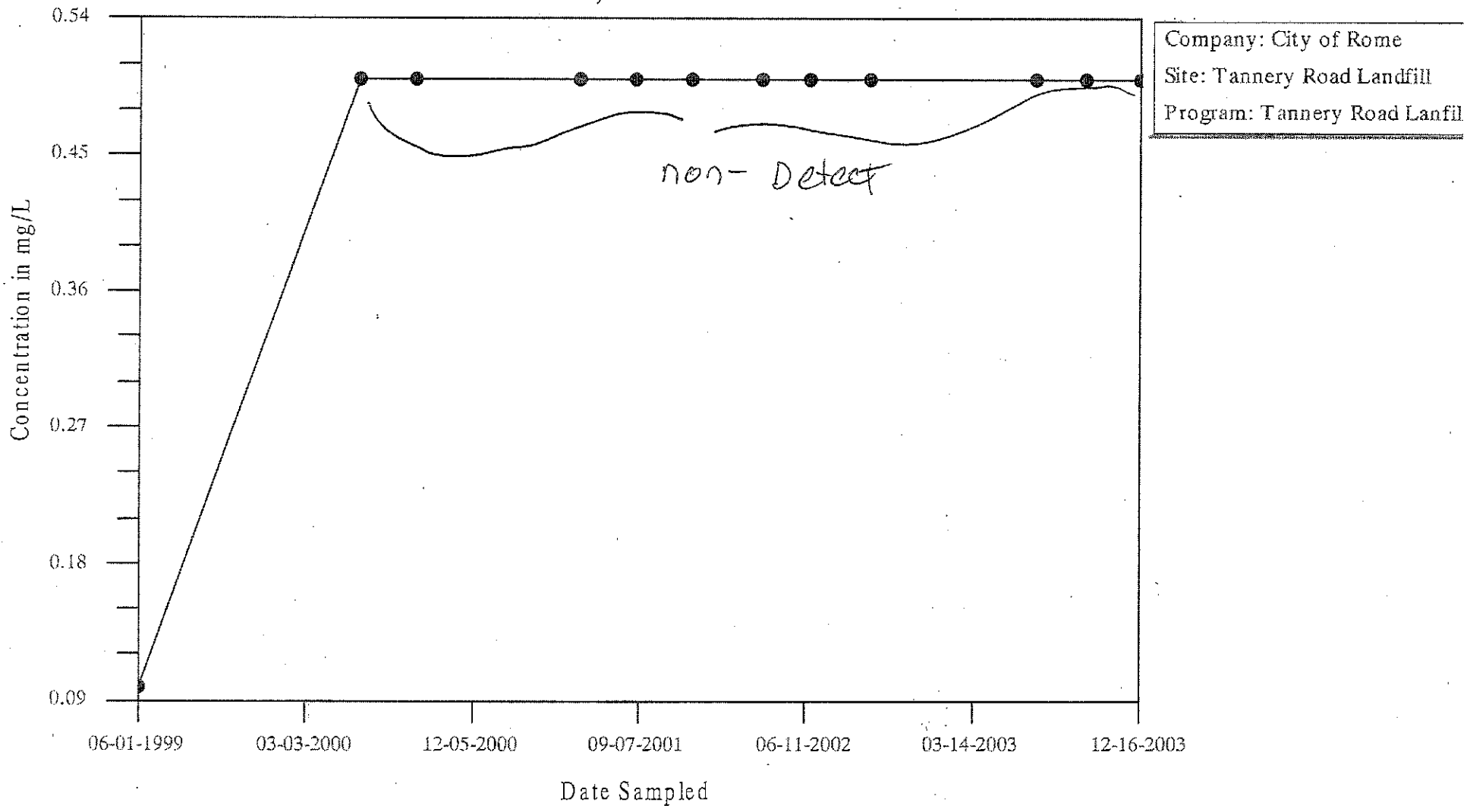
Time-Series Plot

Ammonia-Nitrogen, MW-5S



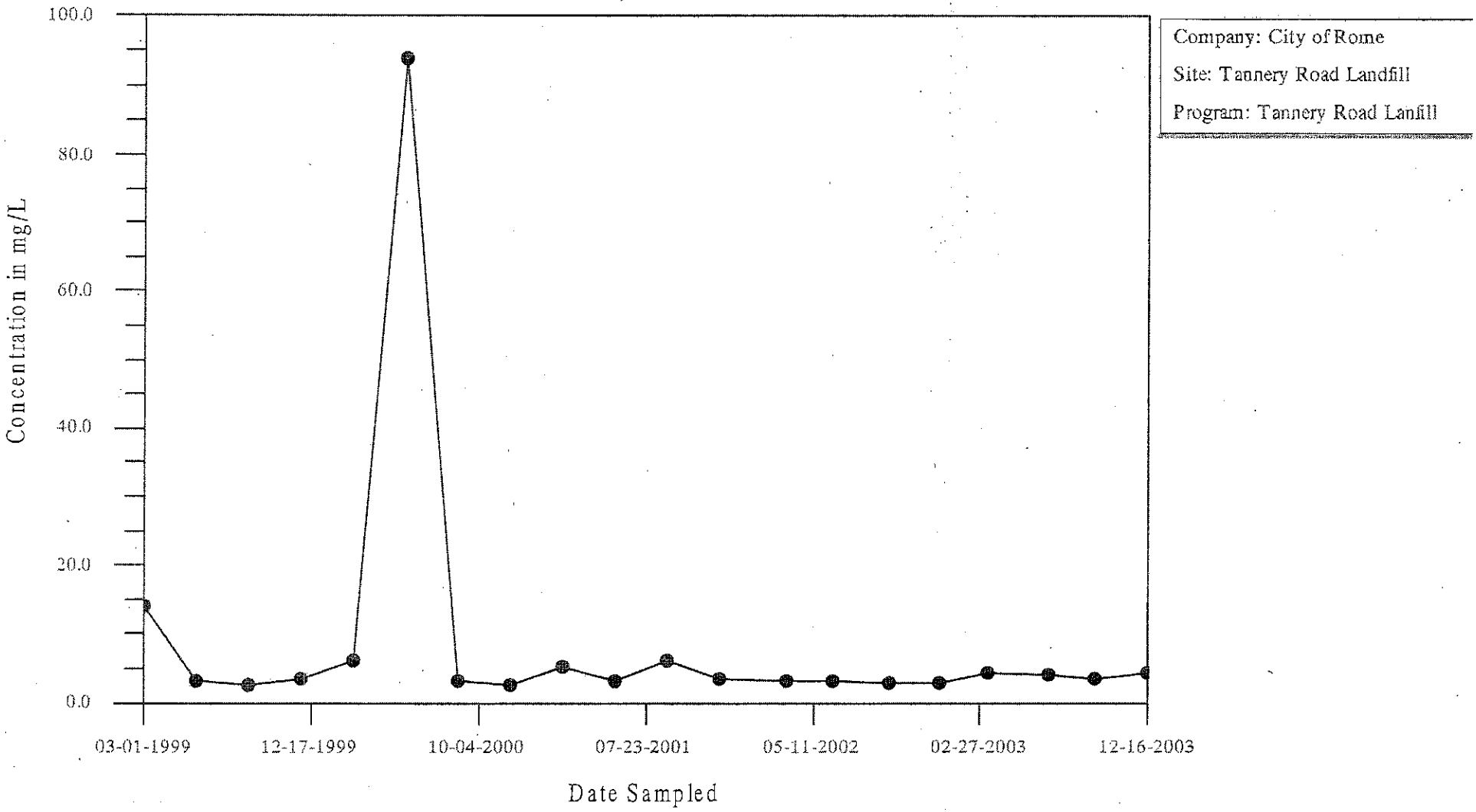
Time-Series Plot

Boron, MW-5S



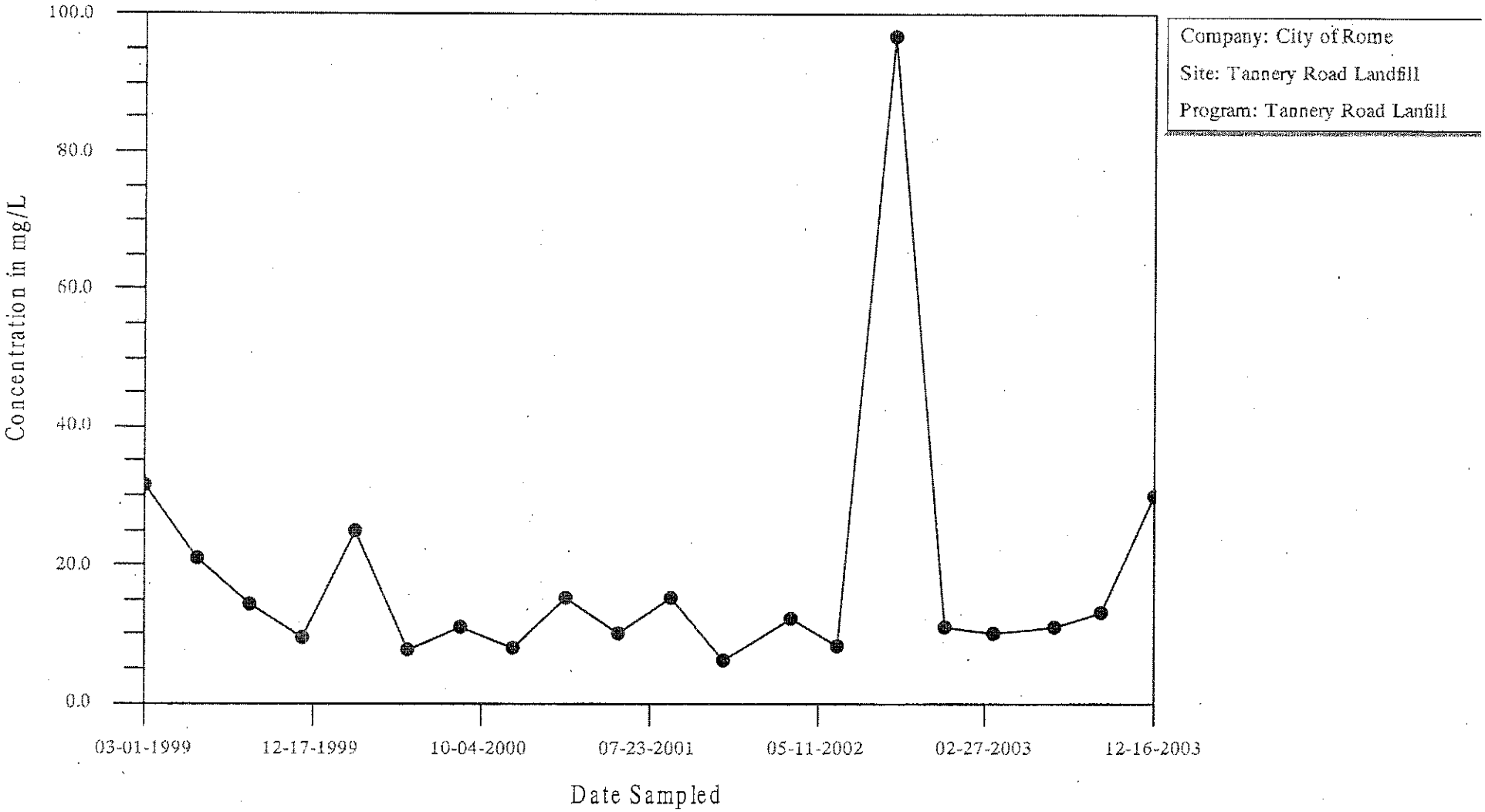
Time-Series Plot

Chloride, MW-5S



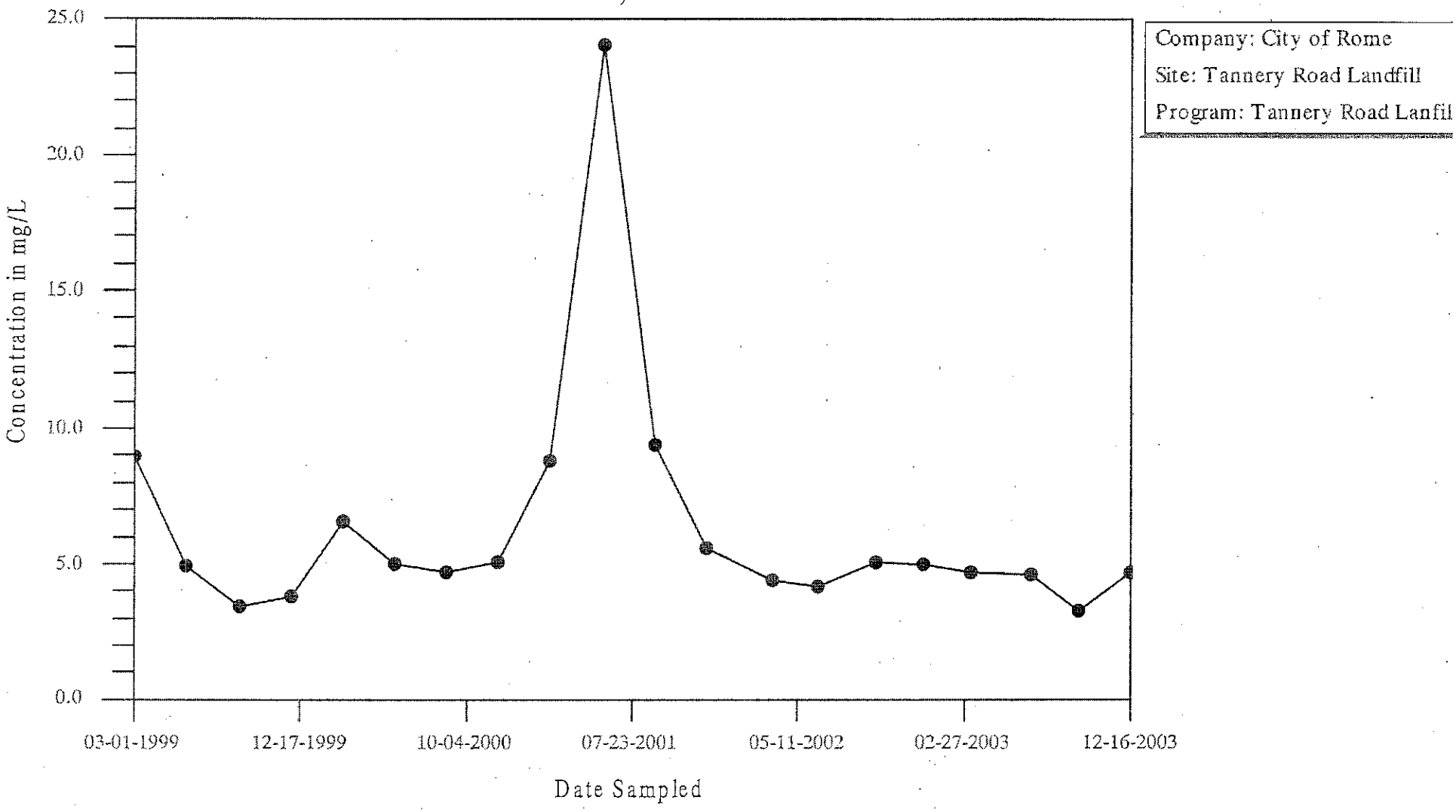
Time-Series Plot

Iron, MW-5S



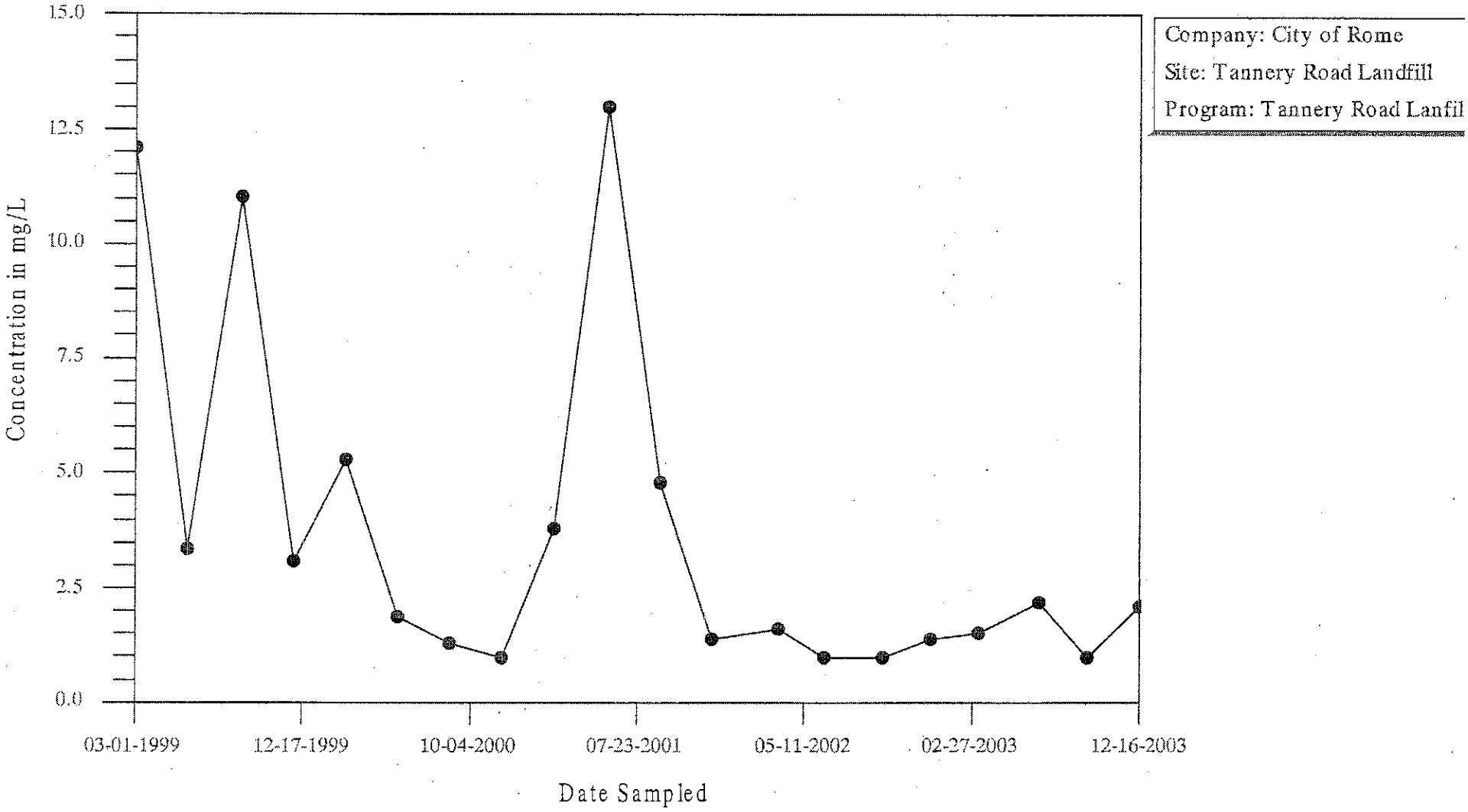
Time-Series Plot

Potassium, MW-5S



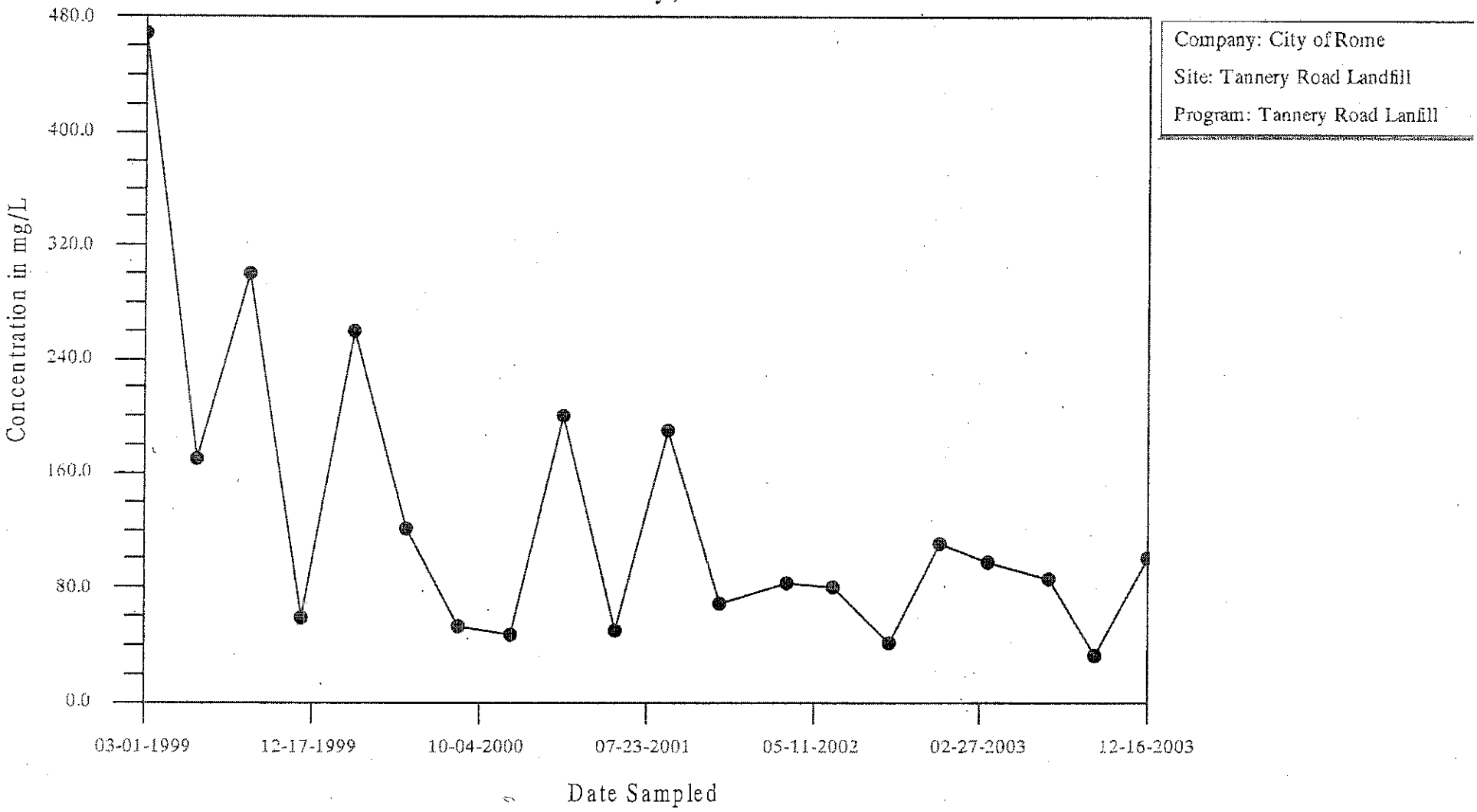
Time-Series Plot

Sodium, MW-5S



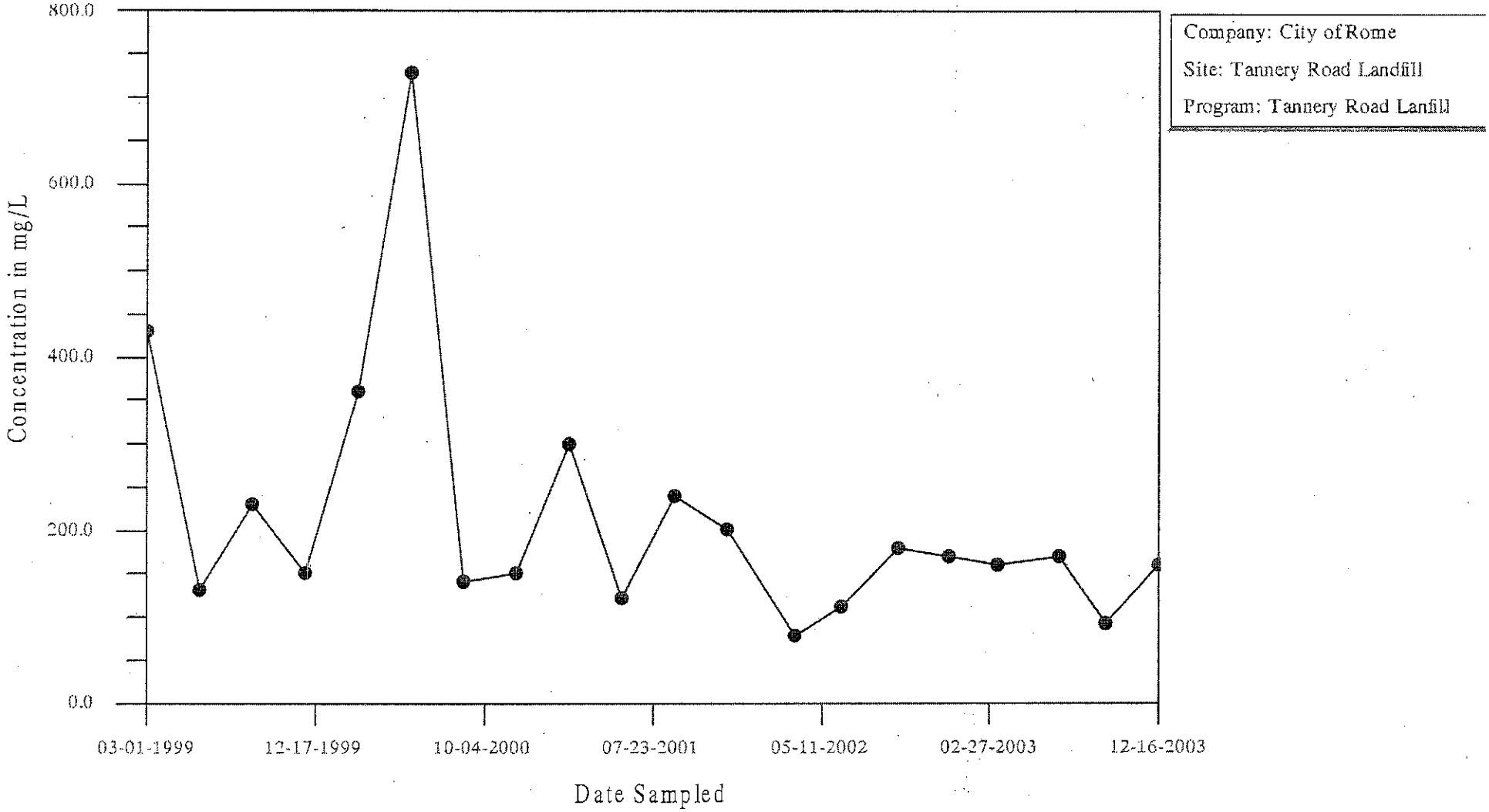
Time-Series Plot

Total Alkalinity, MW-5S



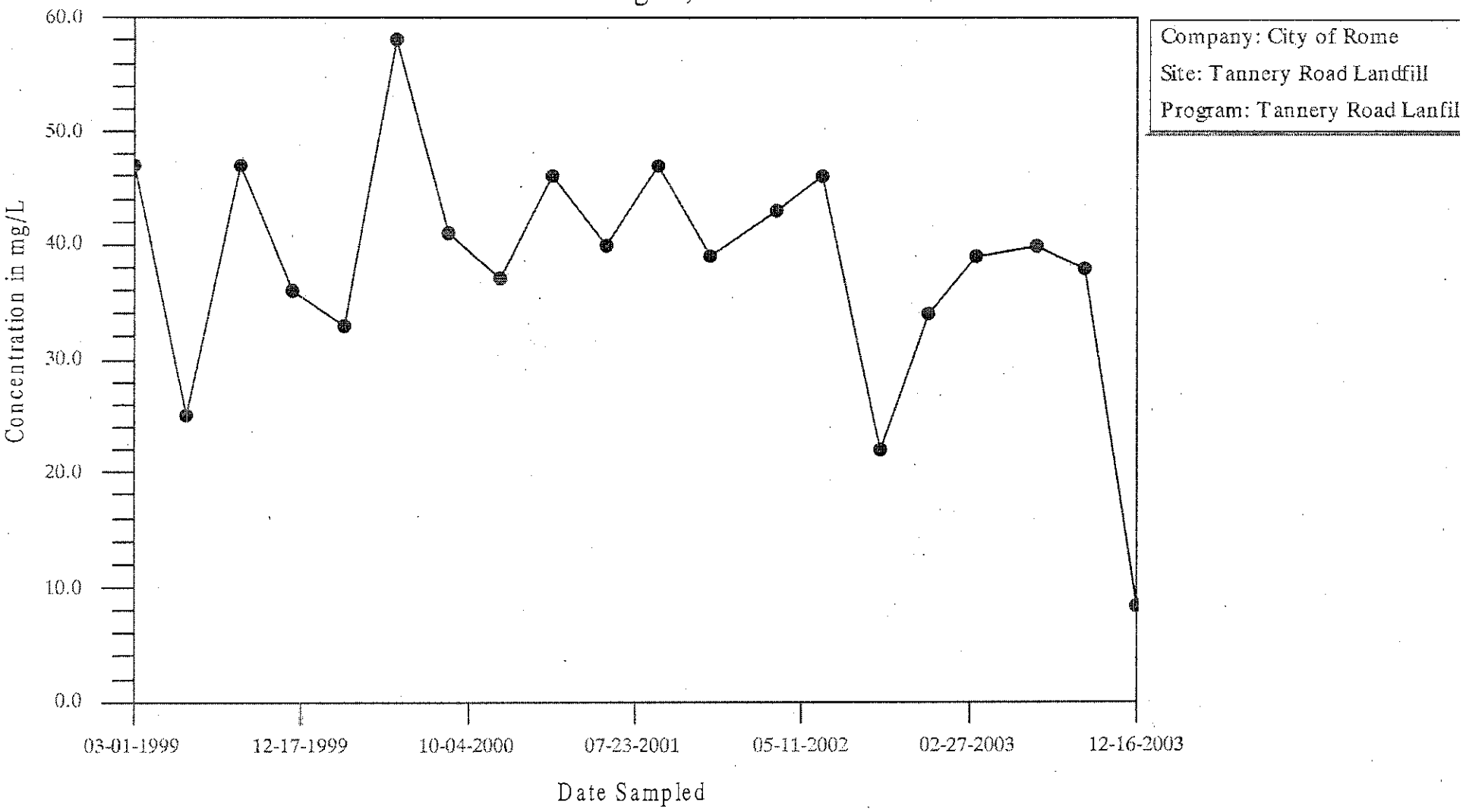
Time-Series Plot

Total Dissolved Solids, MW-5S



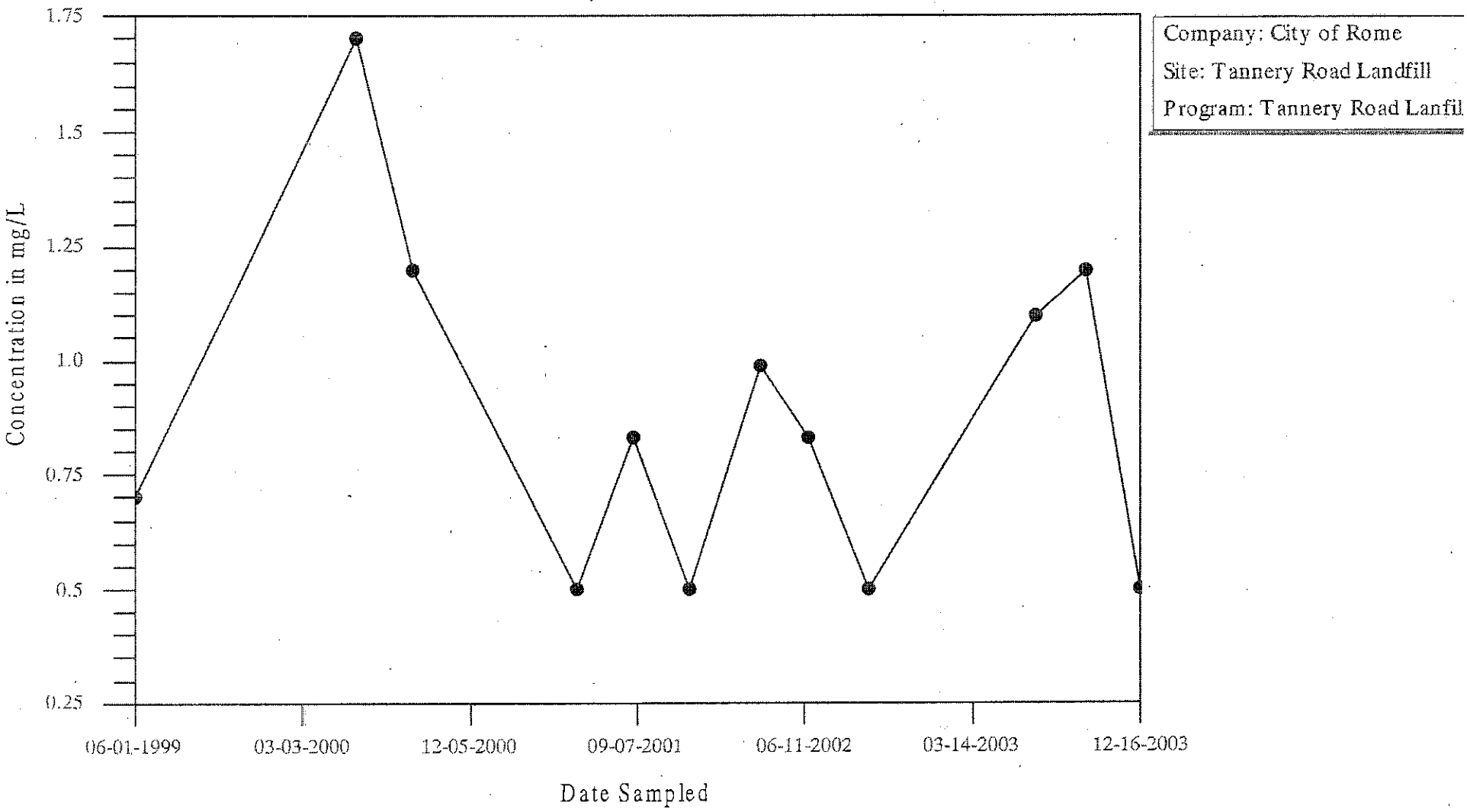
Time-Series Plot

Ammonia-Nitrogen, MW-7D



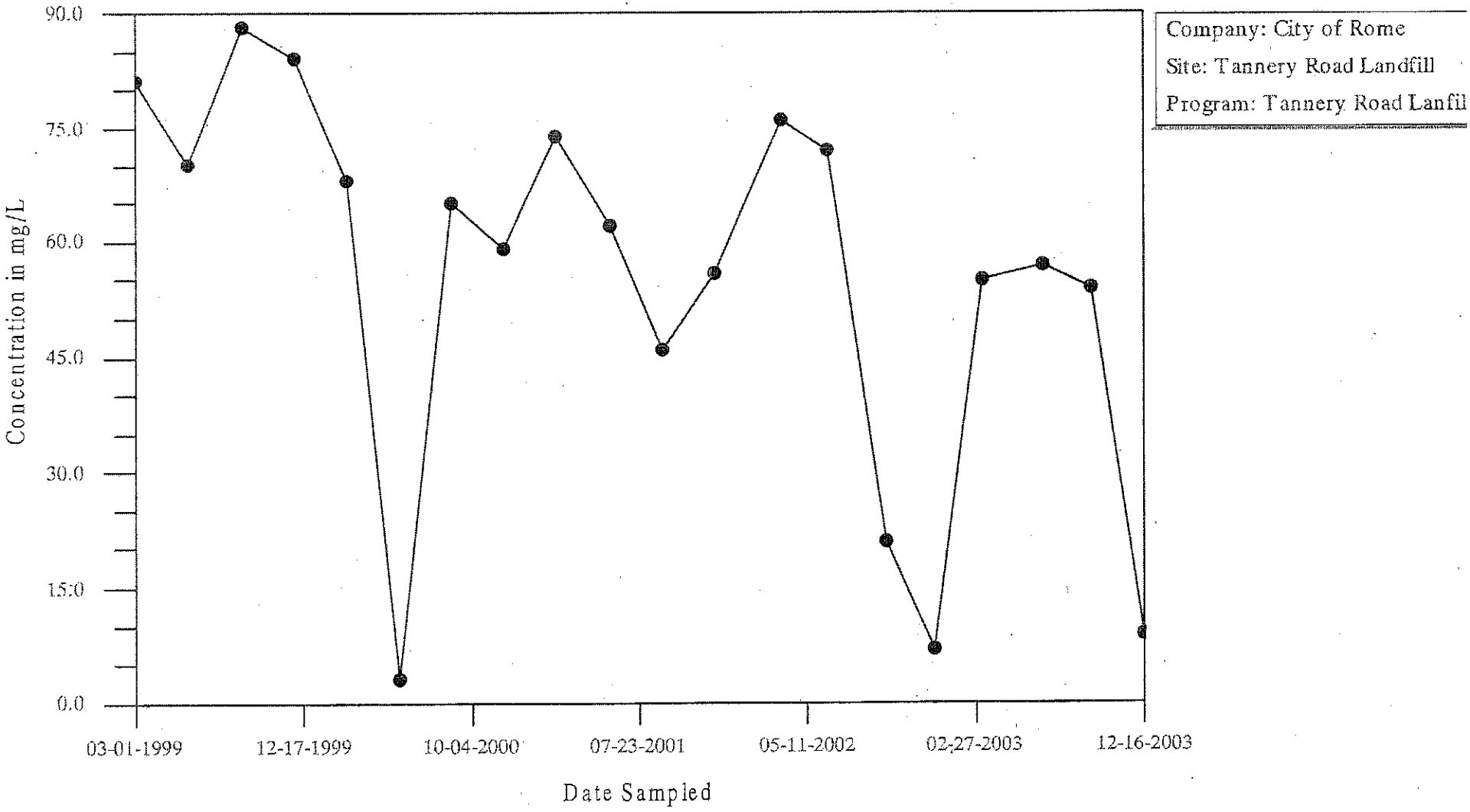
Time-Series Plot

Boron, MW-7D



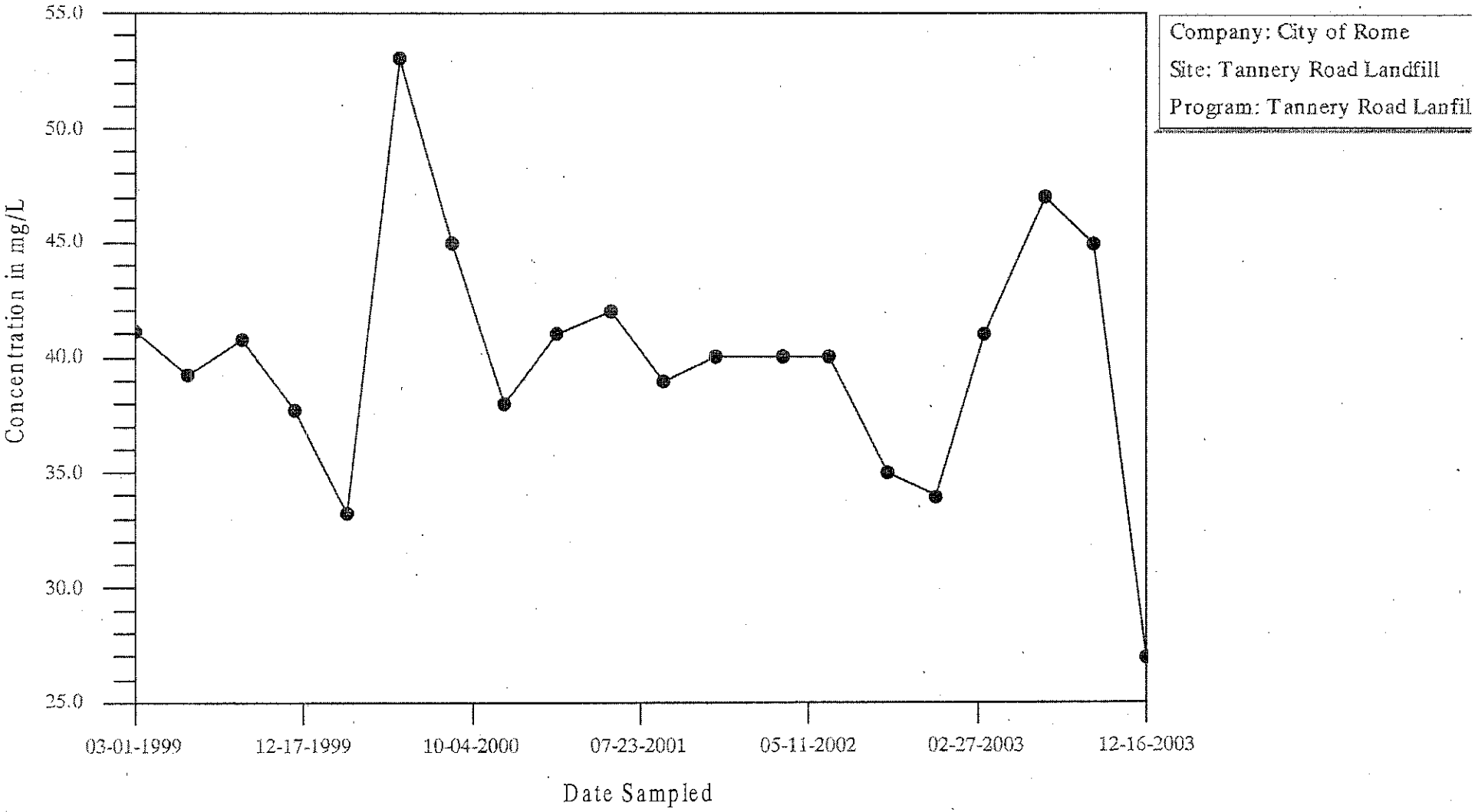
Time-Series Plot

Chloride, MW-7D



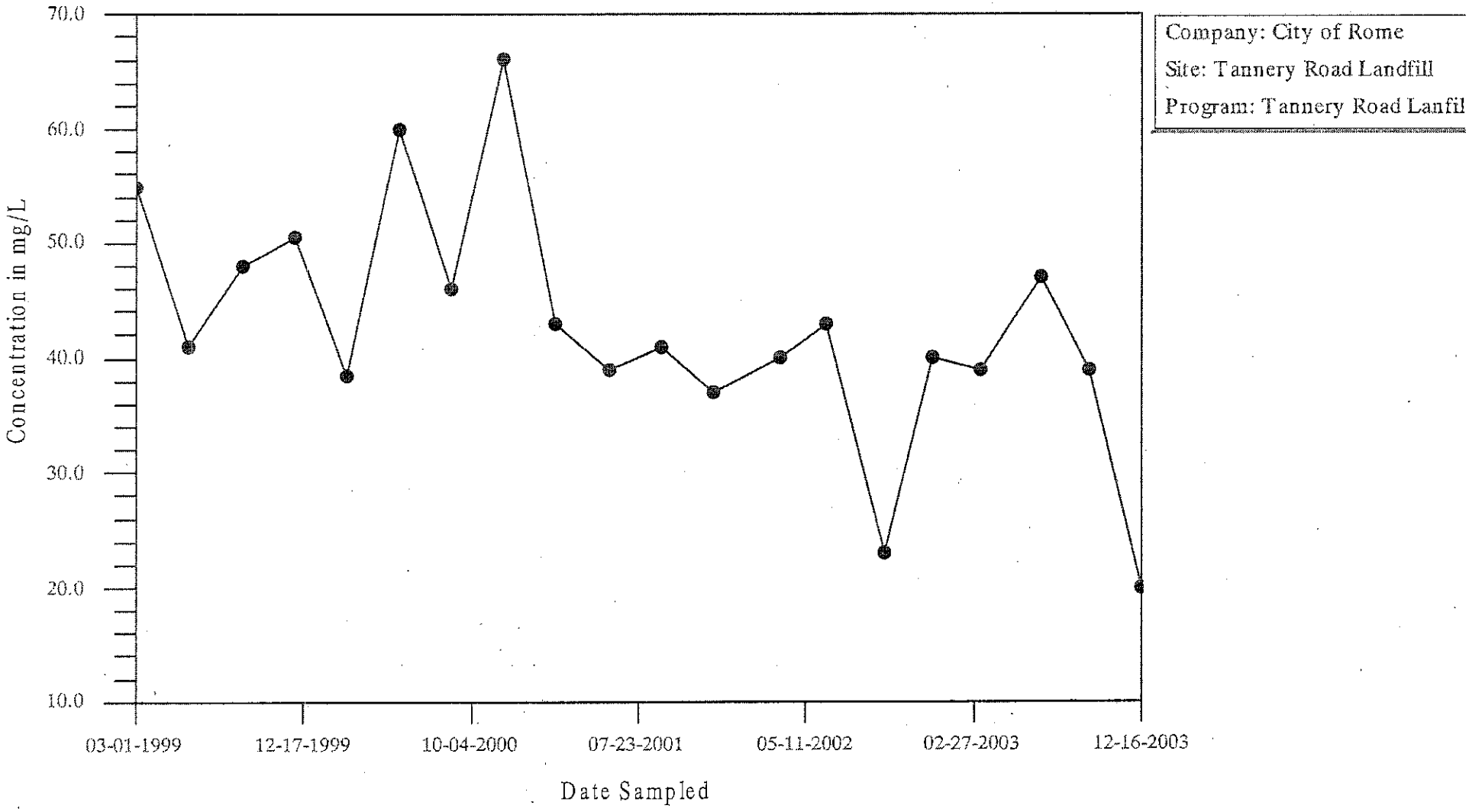
Time-Series Plot

Iron, MW-7D



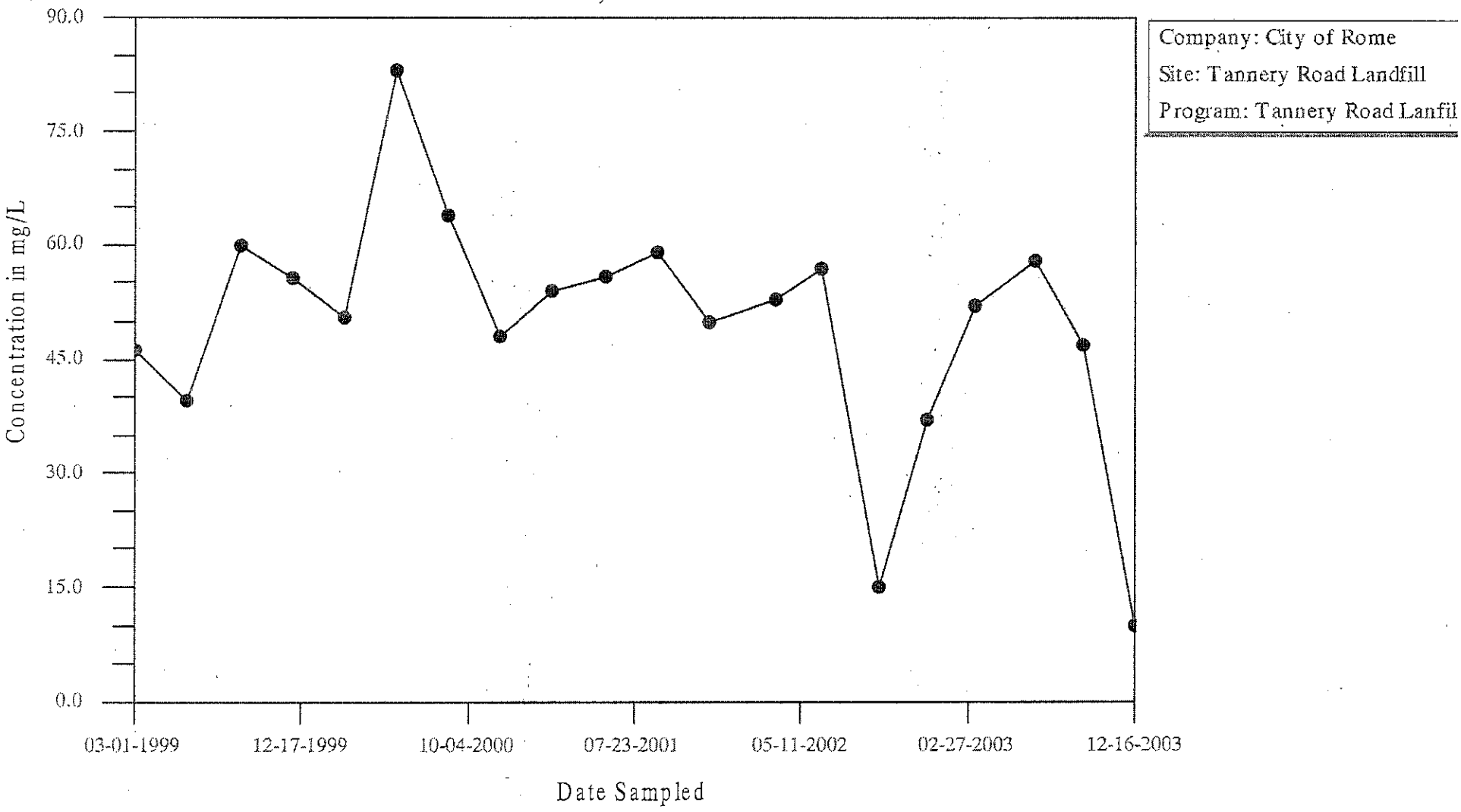
Time-Series Plot

Potassium, MW-7D



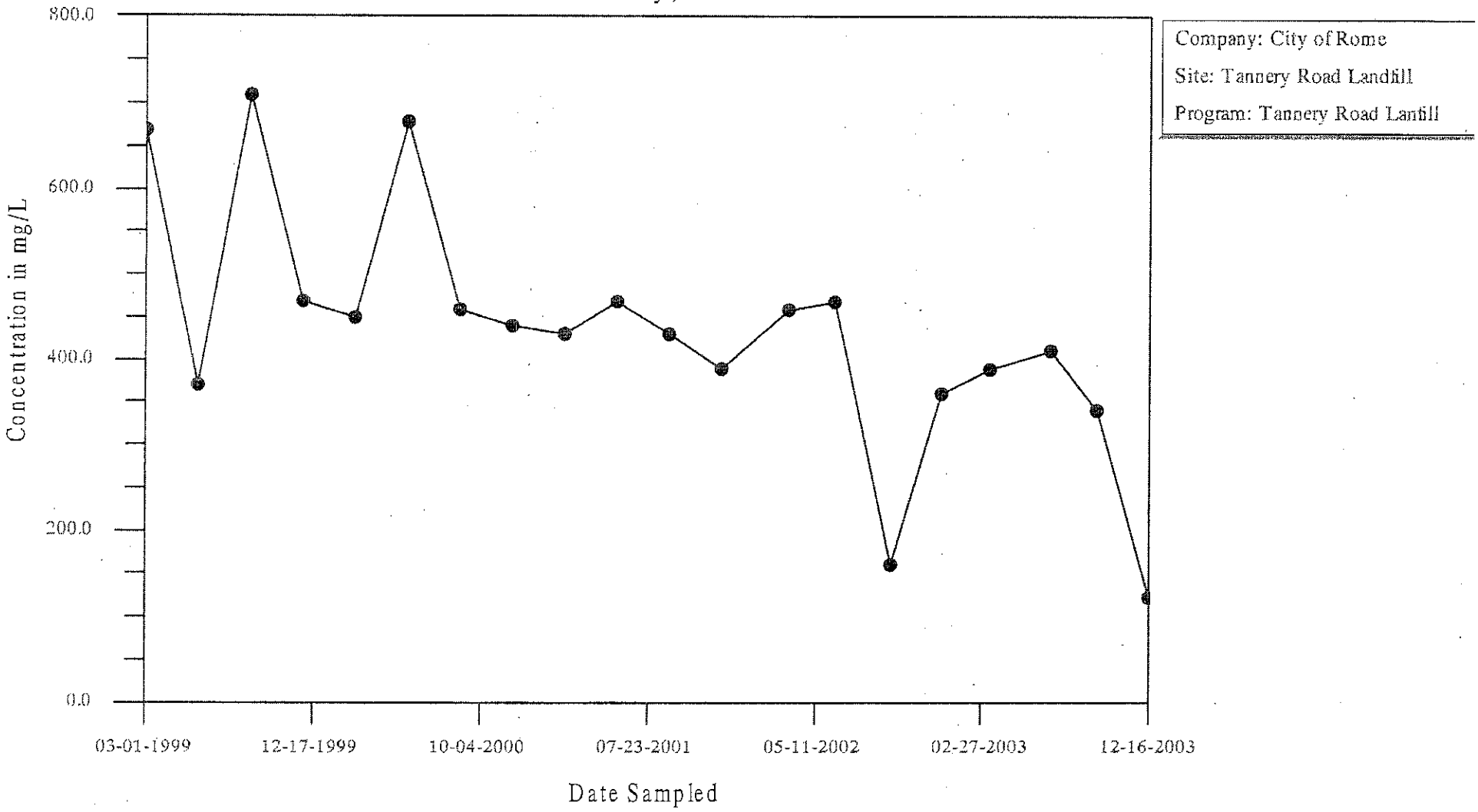
Time-Series Plot

Sodium, MW-7D



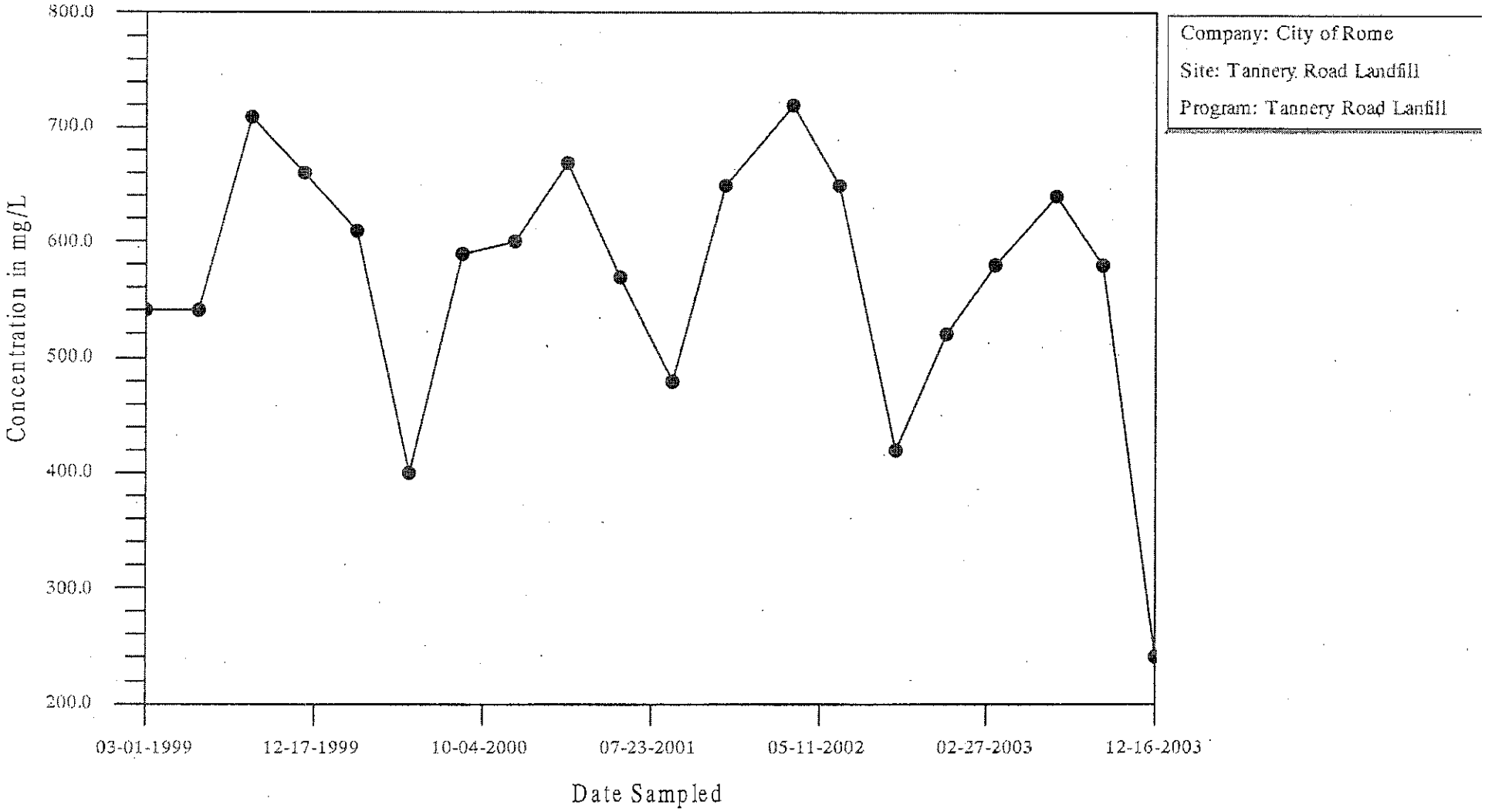
Time-Series Plot

Total Alkalinity, MW-7D



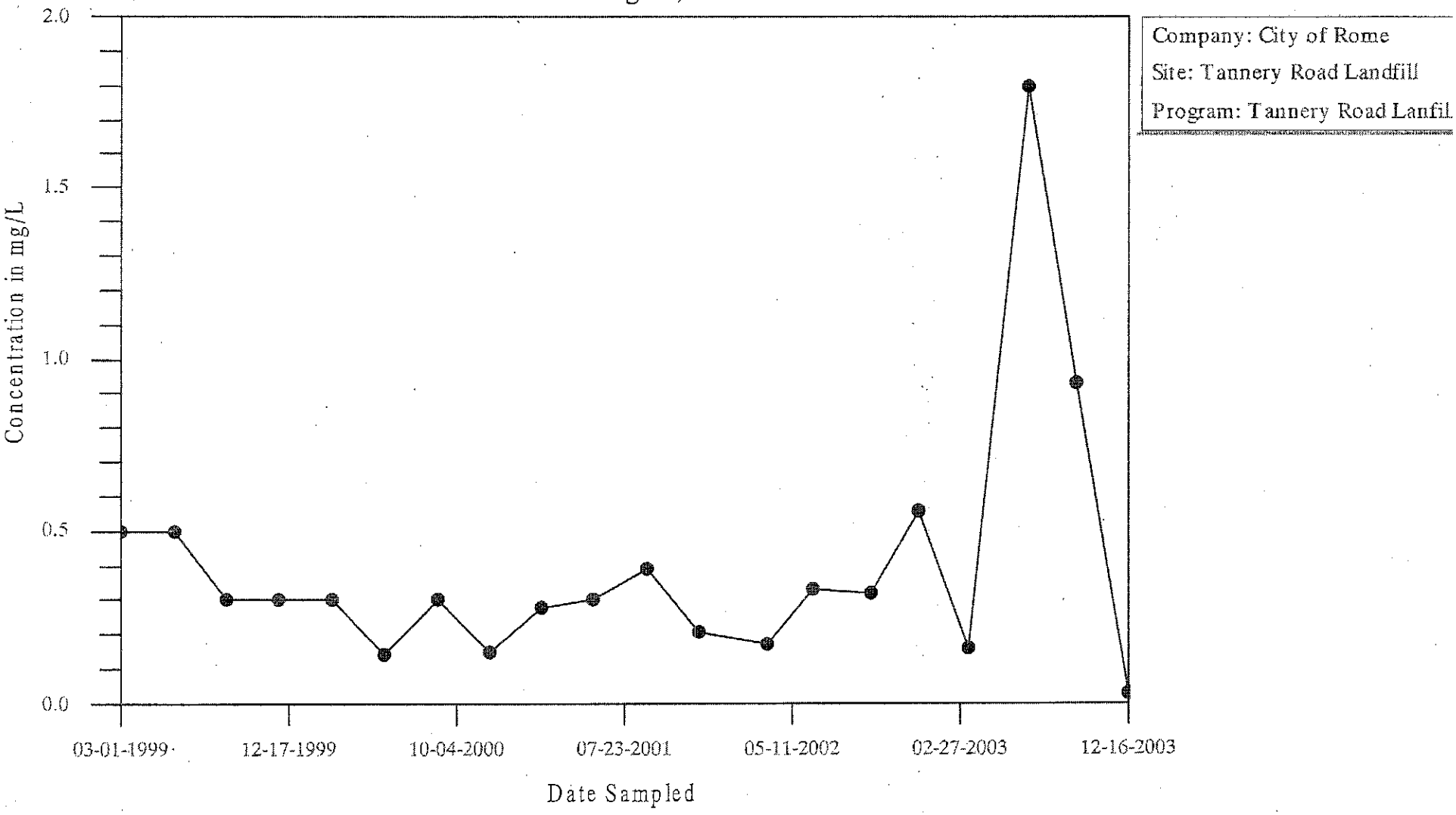
Time-Series Plot

Total Dissolved Solids, MW-7D



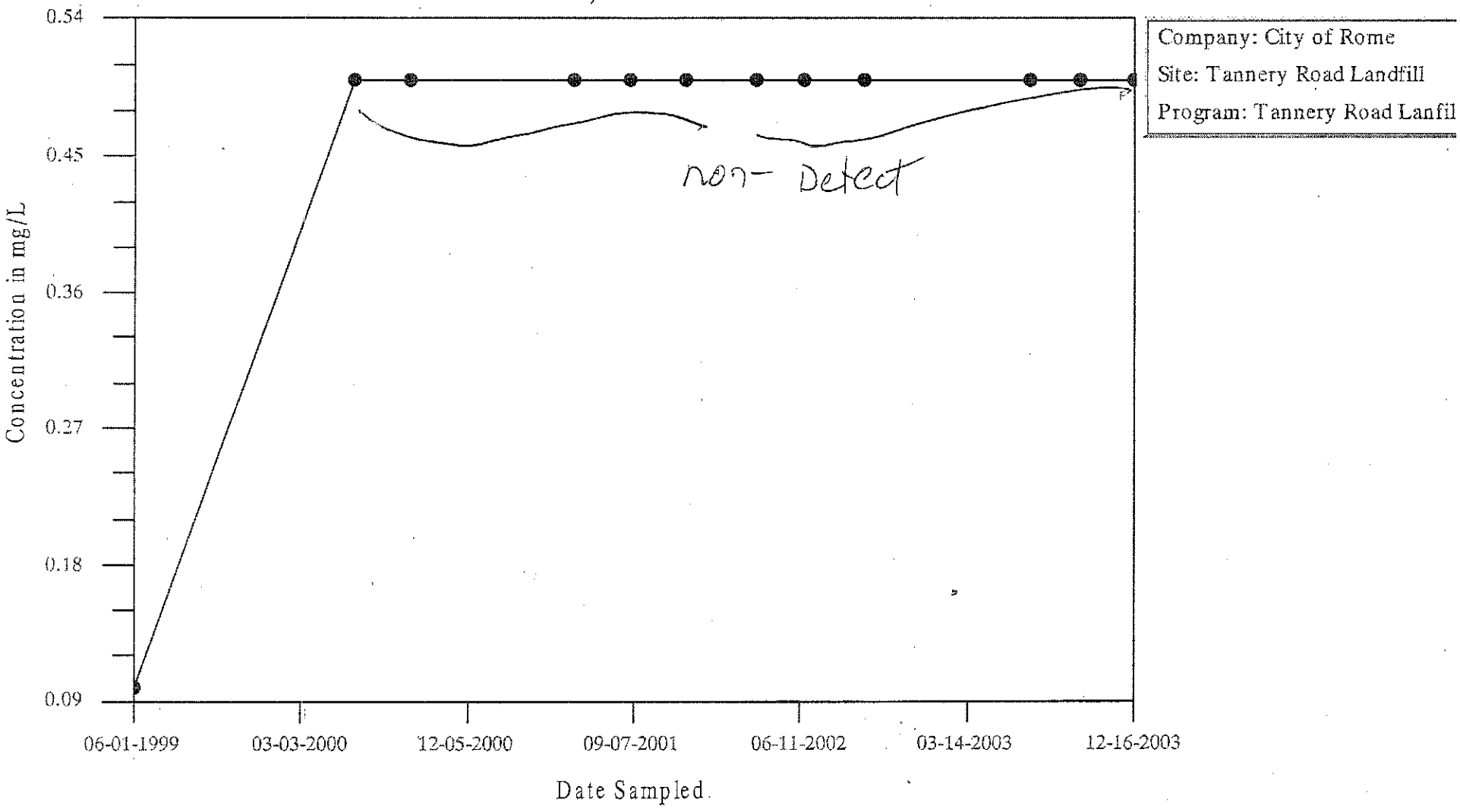
Time-Series Plot

Ammonia-Nitrogen, MW-9S



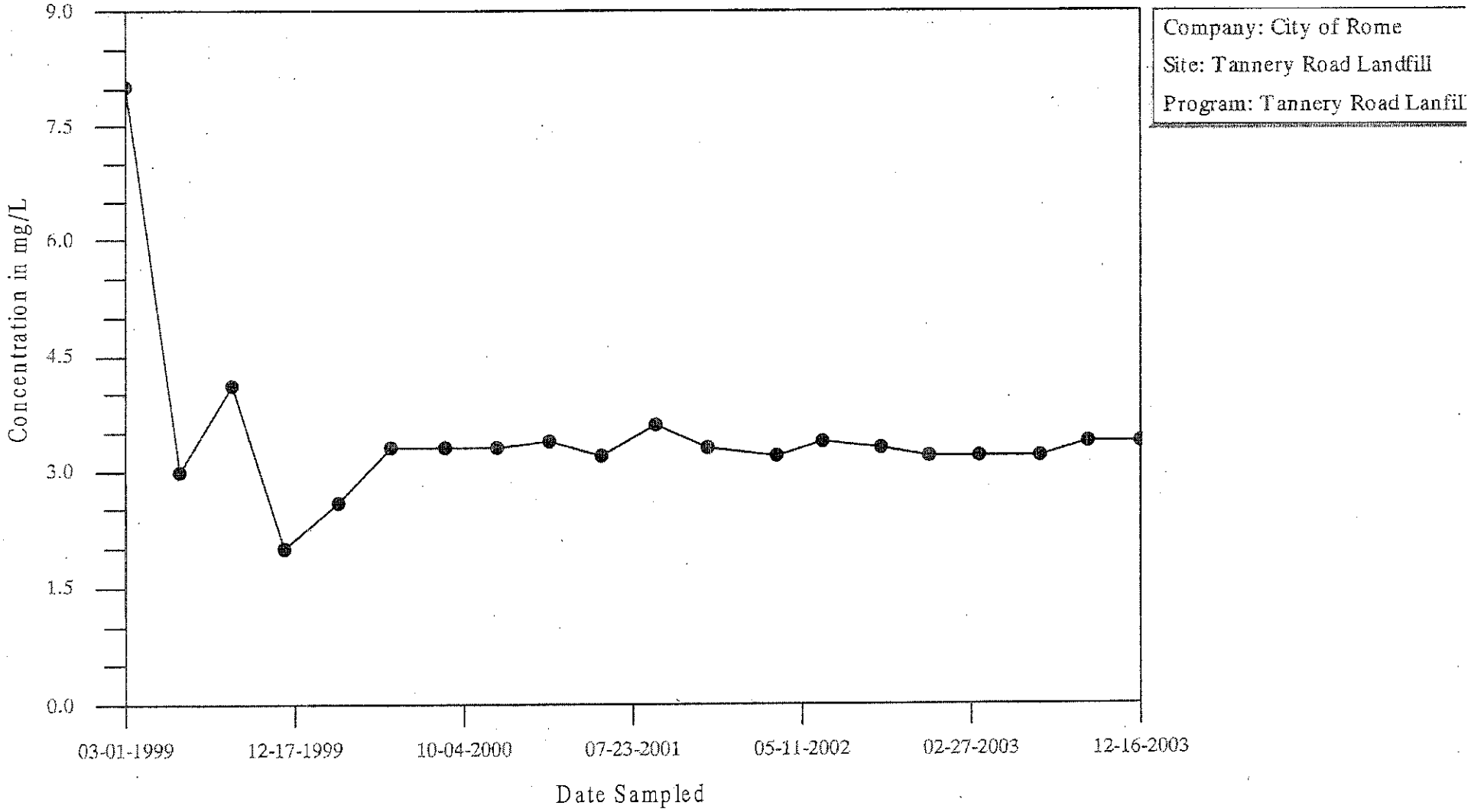
Time-Series Plot

Boron, MW-9S



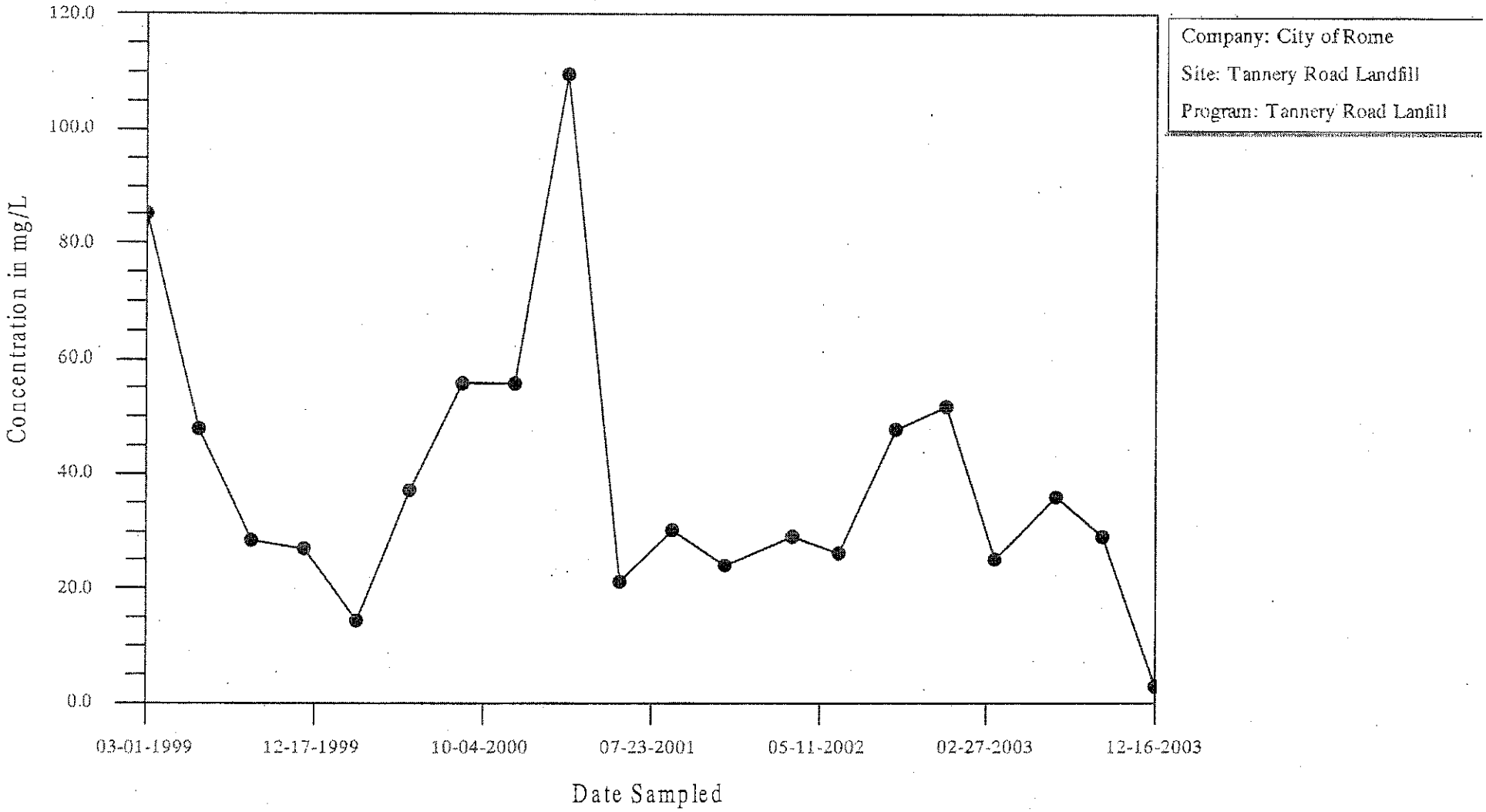
Time-Series Plot

Chloride, MW-9S



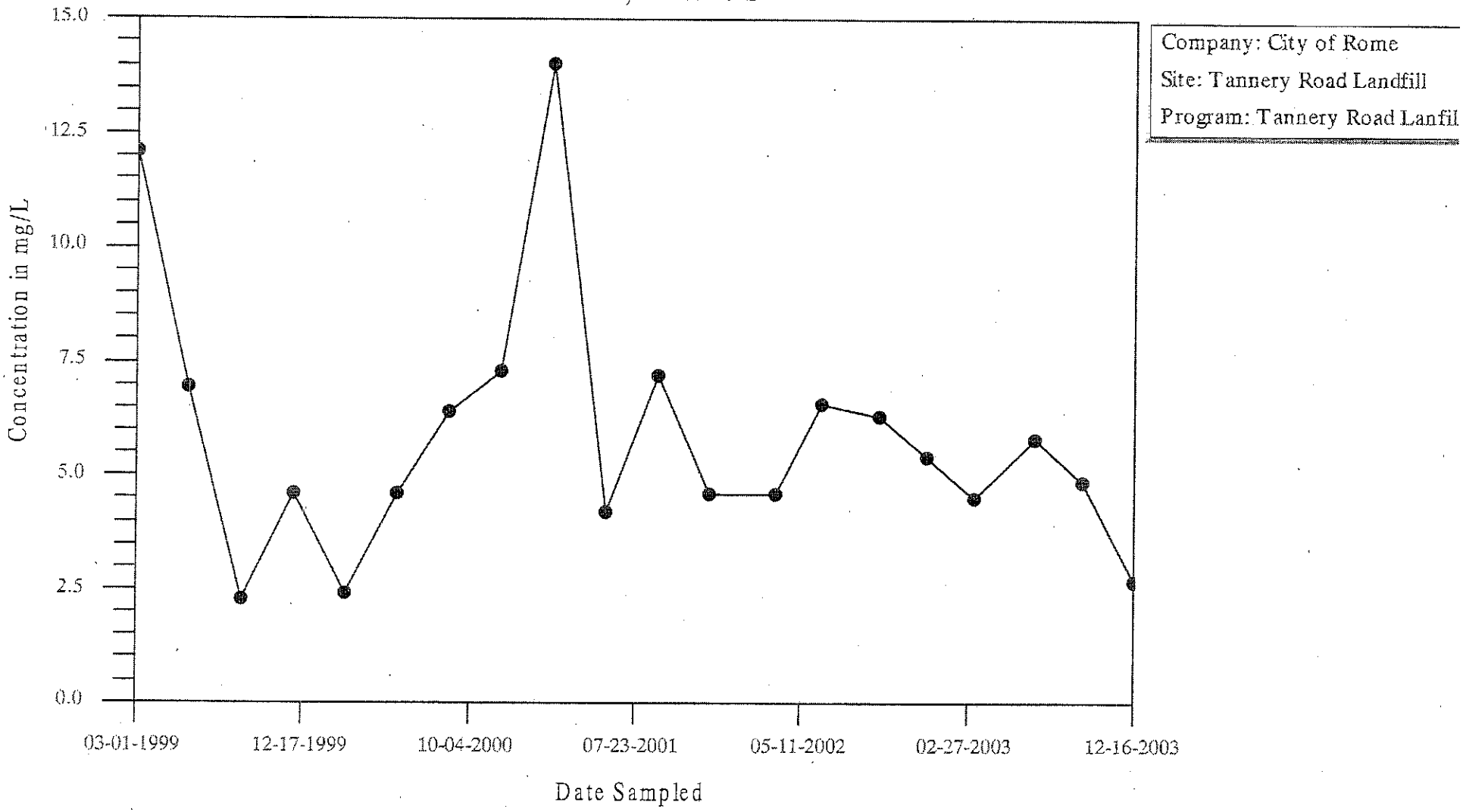
Time-Series Plot

Iron, MW-9S



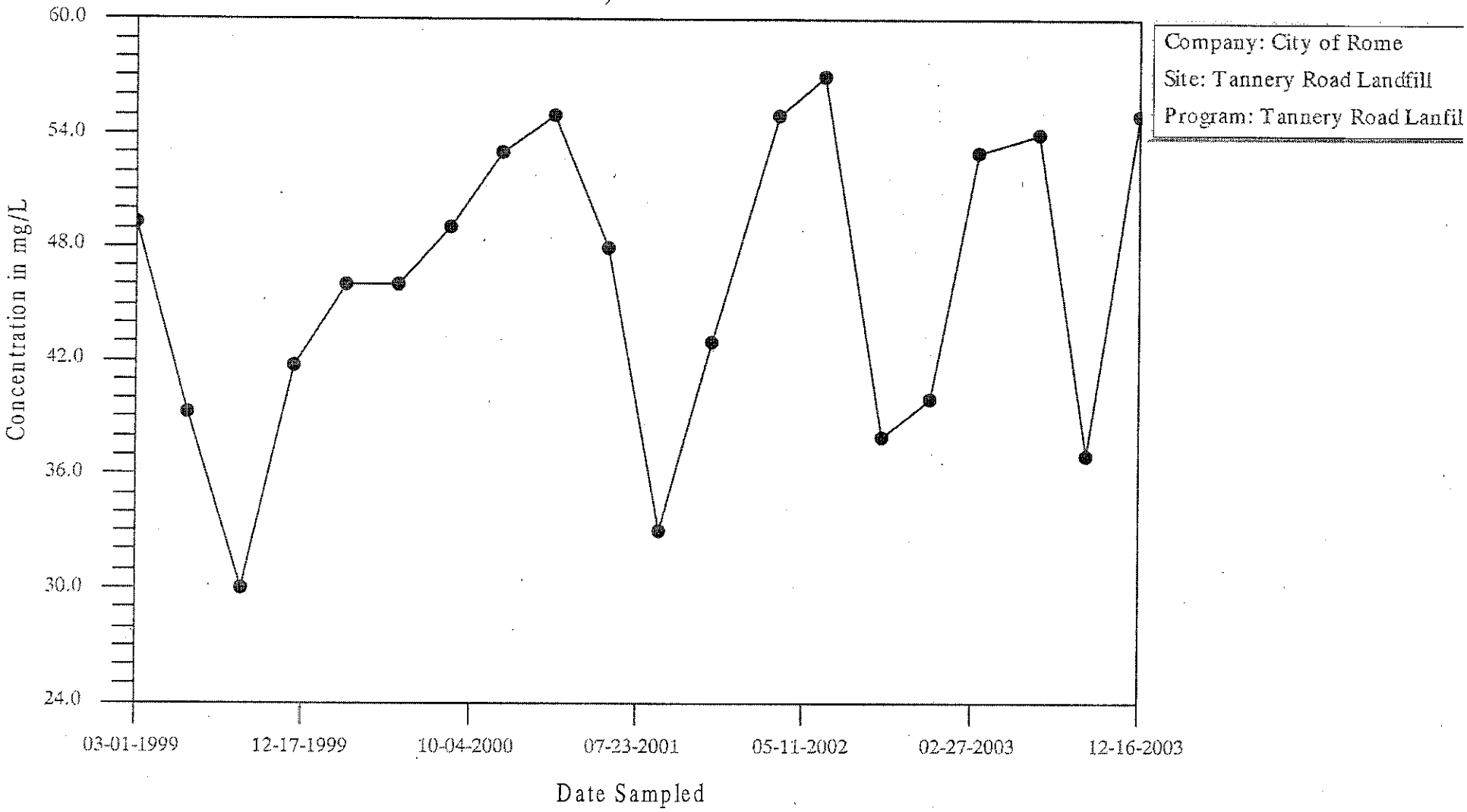
Time-Series Plot

Potassium, MW-9S



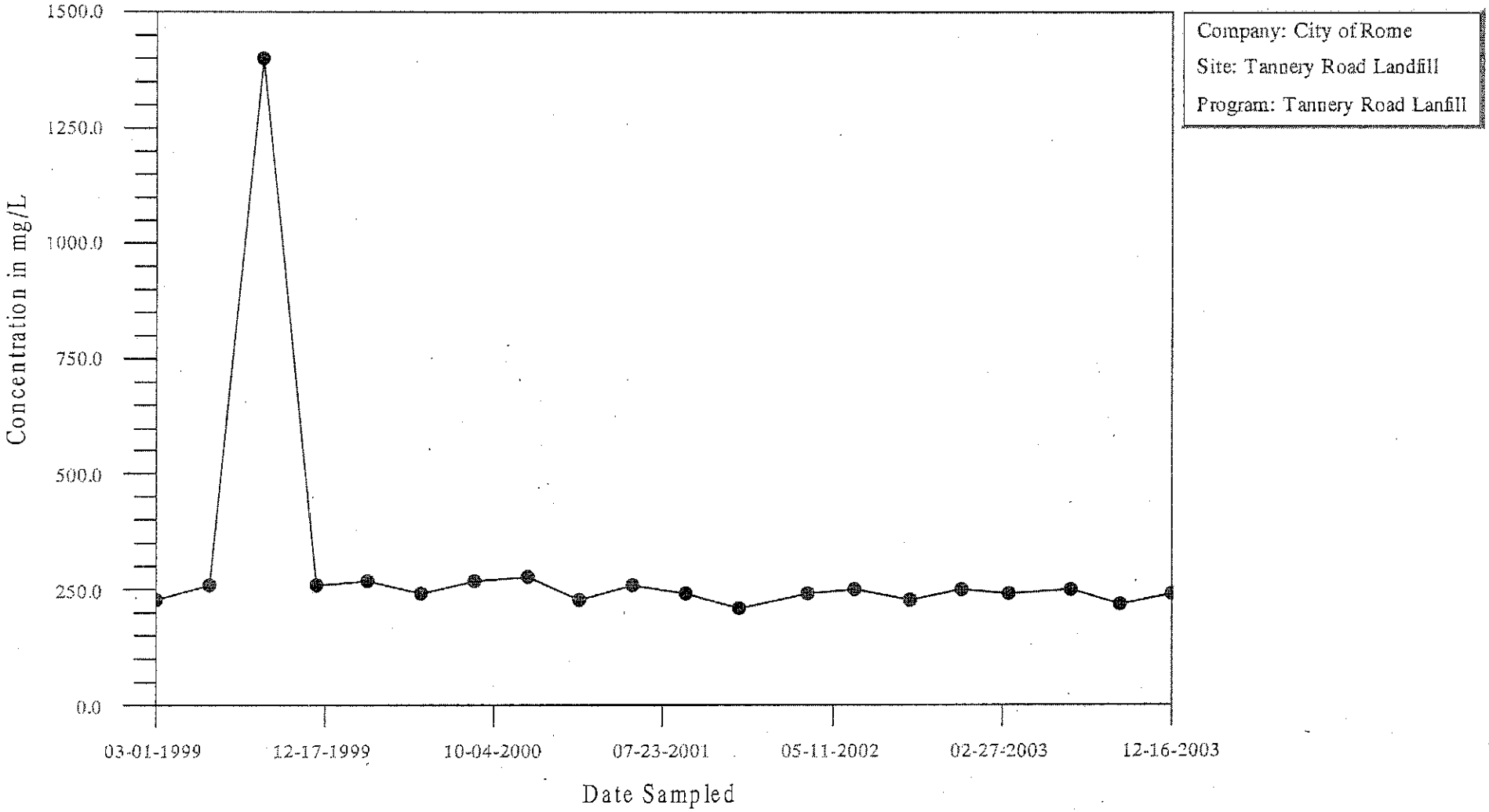
Time-Series Plot

Sodium, MW-9S



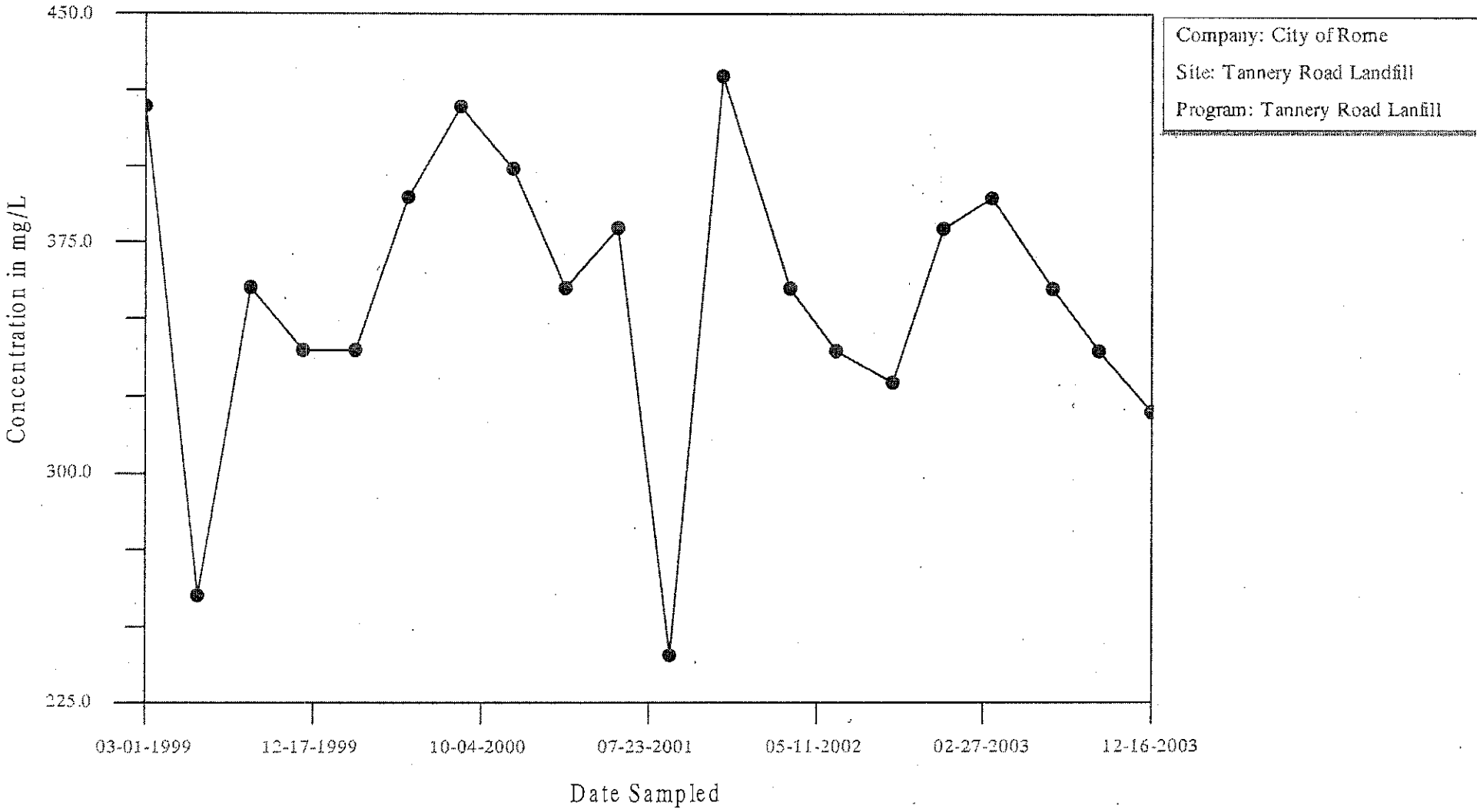
Time-Series Plot

Total Alkalinity, MW-9S



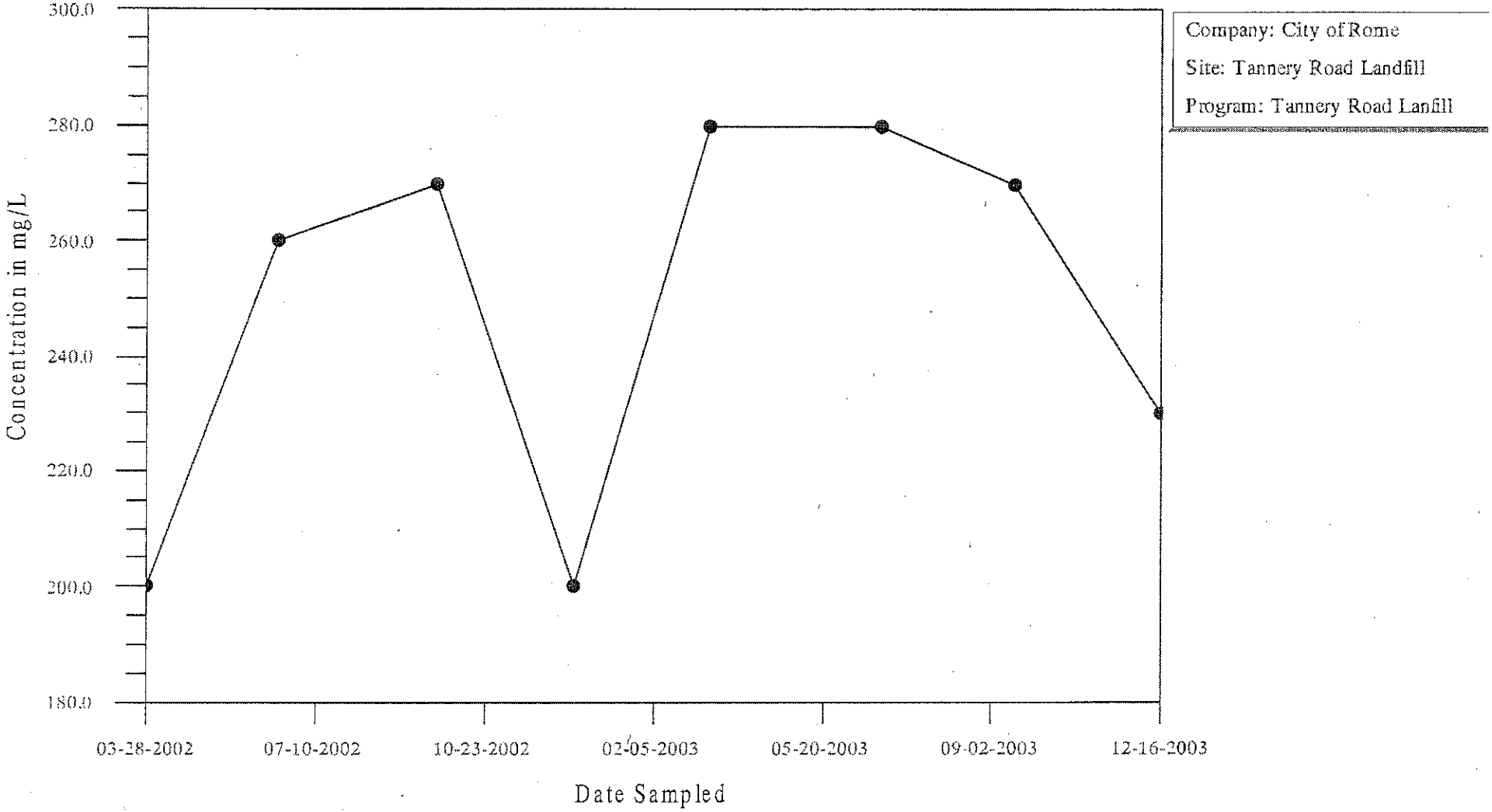
Time-Series Plot

Total Dissolved Solids, MW-9S



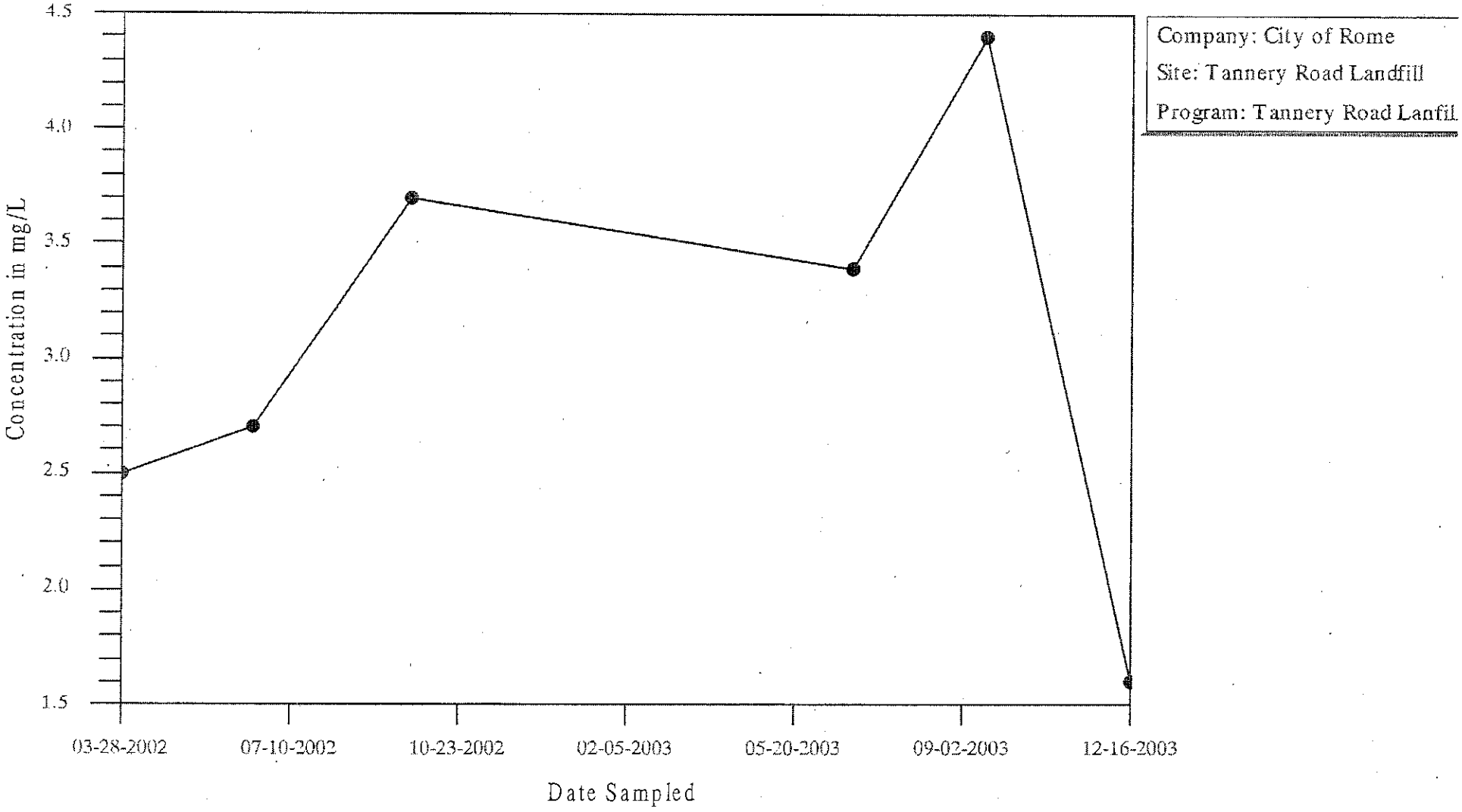
Time-Series Plot

Ammonia-Nitrogen, LMW-10



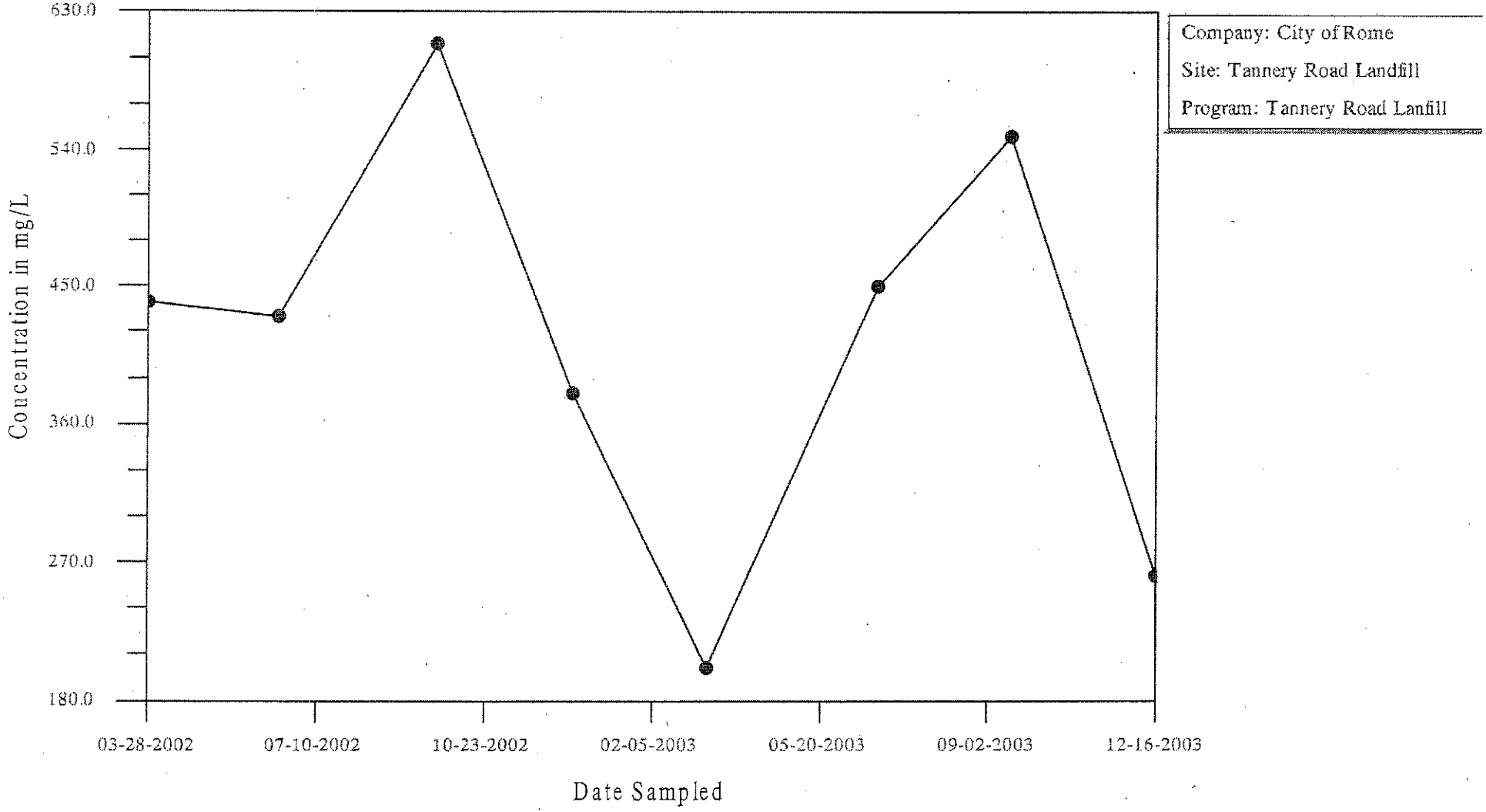
Time-Series Plot

Boron, LMW-10



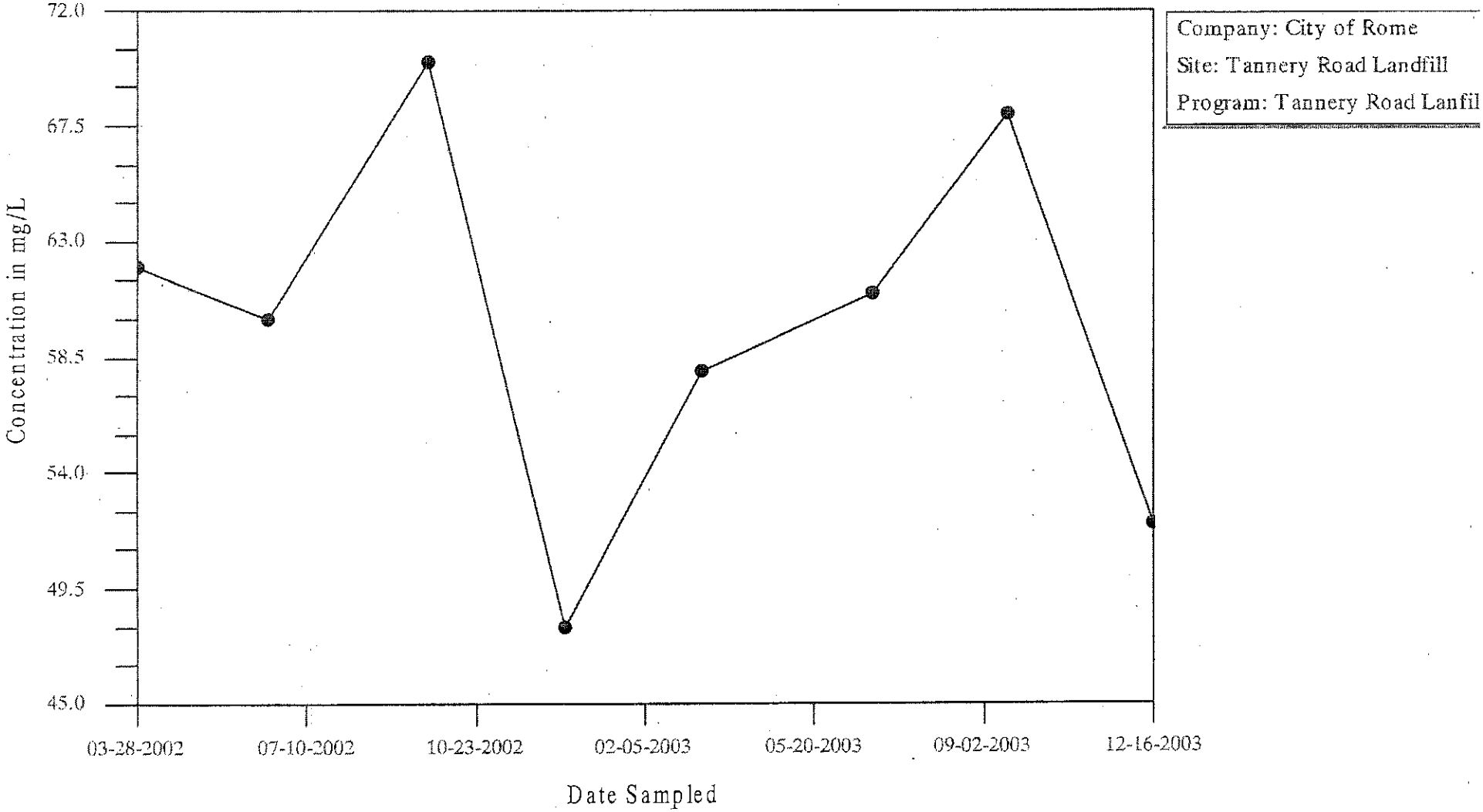
Time-Series Plot

Chloride, LMW-10



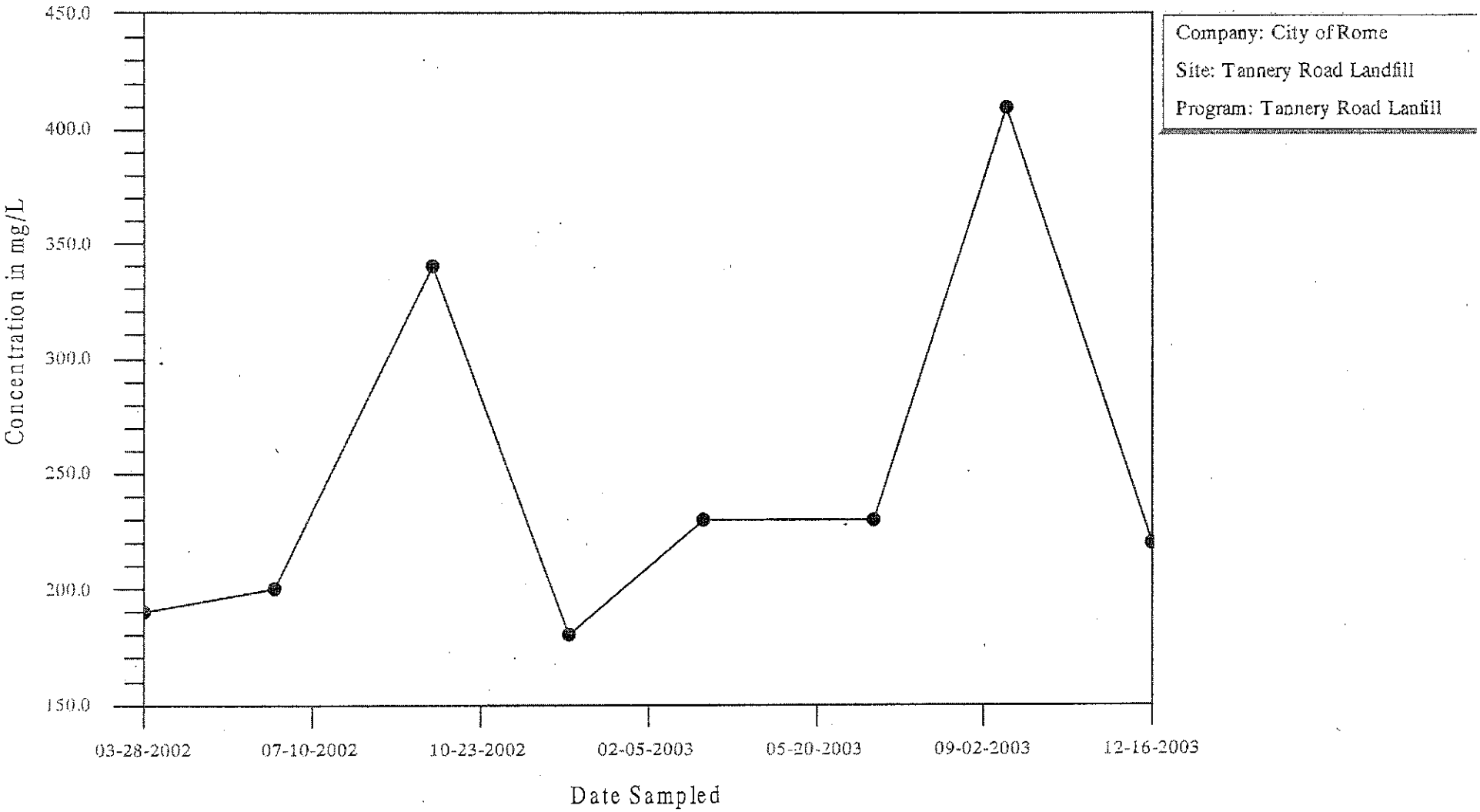
Time-Series Plot

Iron, LMW-10



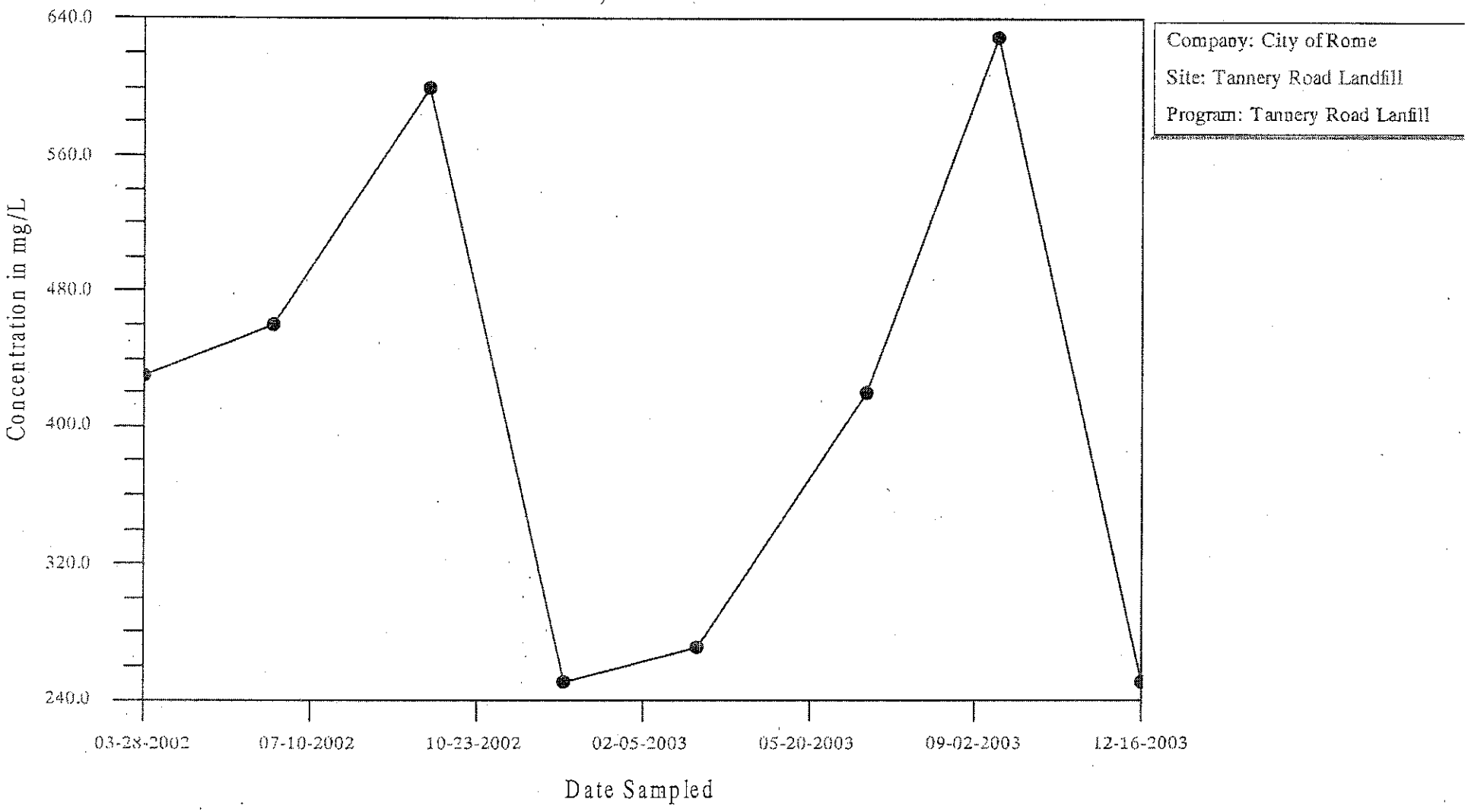
Time-Series Plot

Potassium, LMW-10



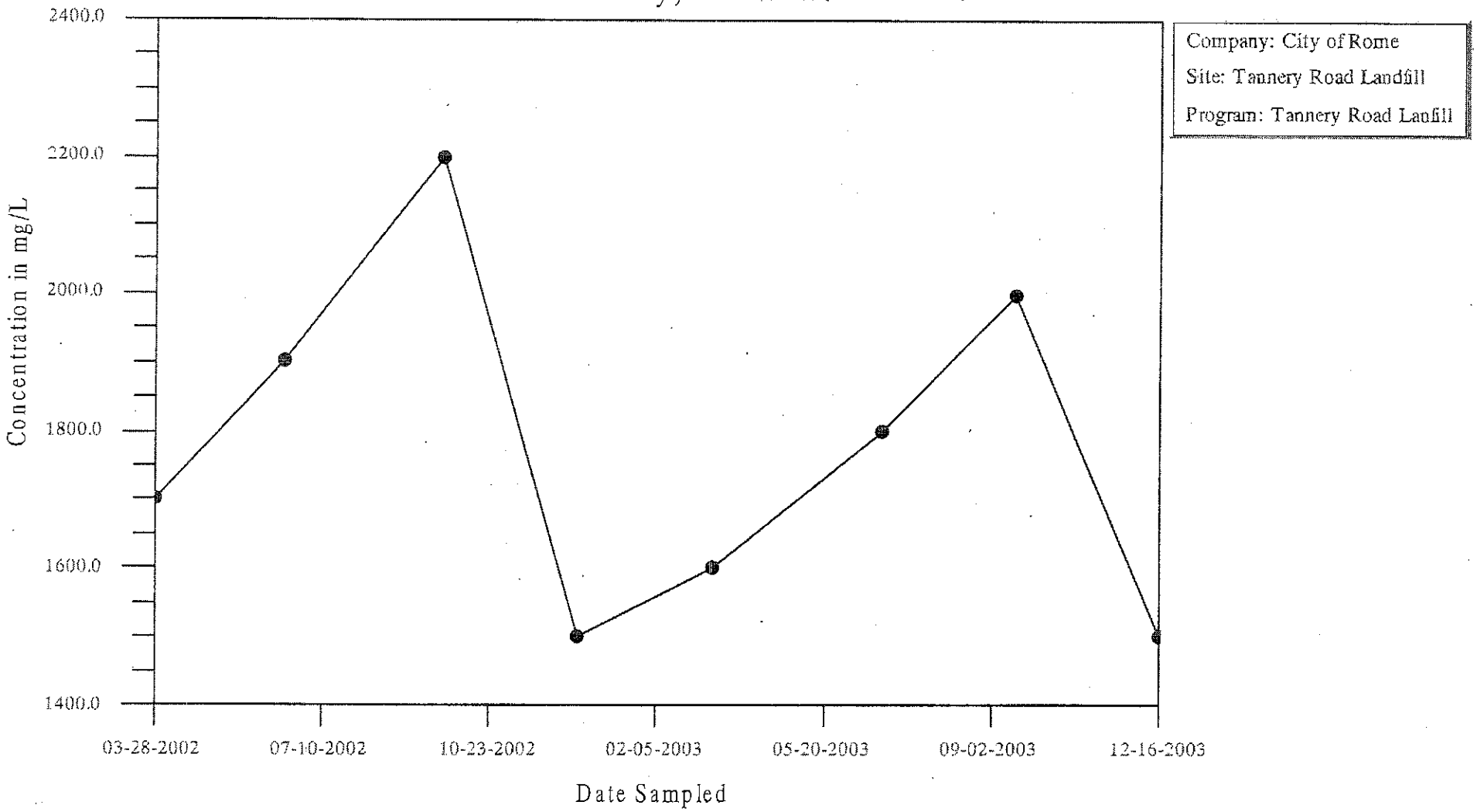
Time-Series Plot

Sodium, LMW-10



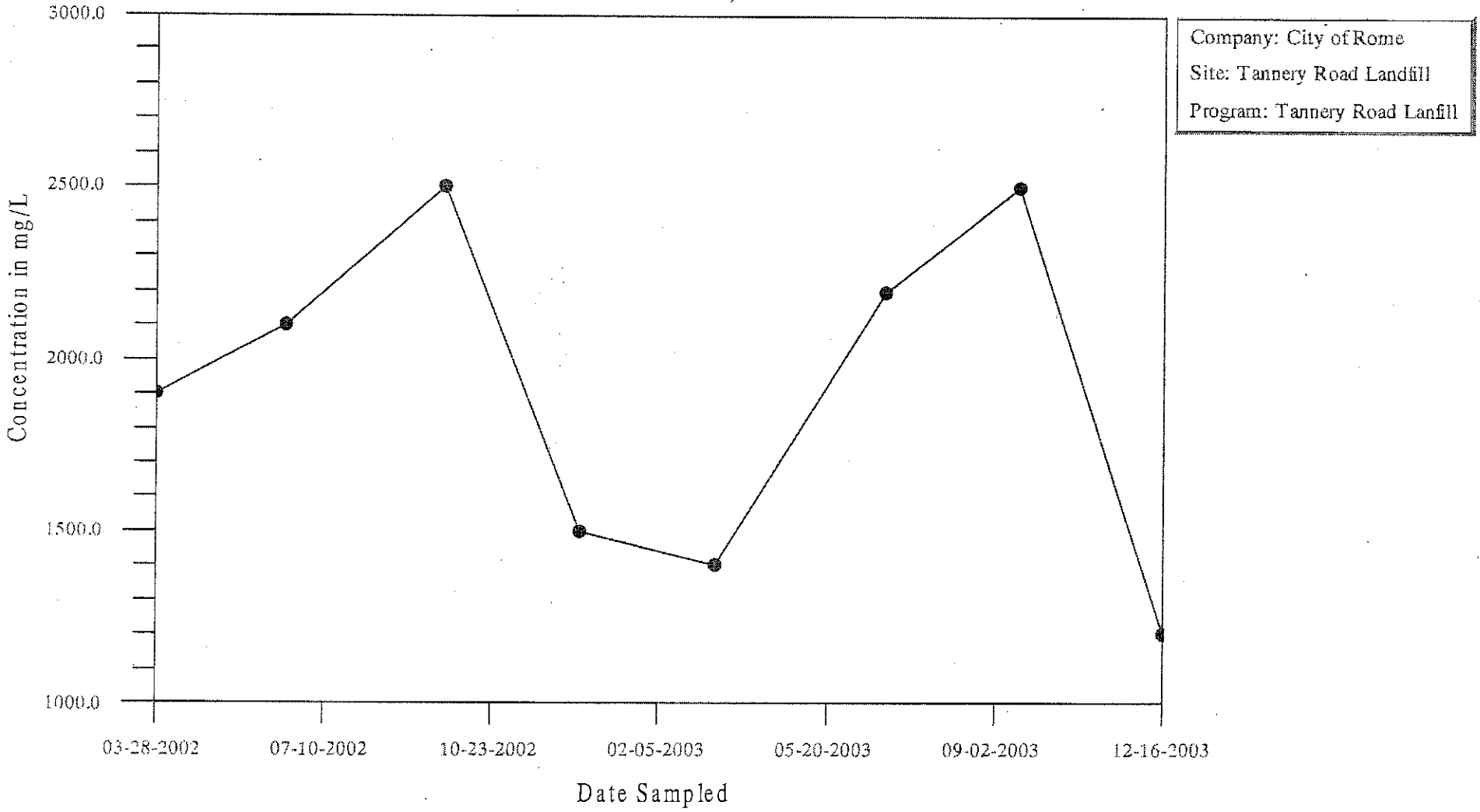
Time-Series Plot

Total Alkalinity, LMW-10



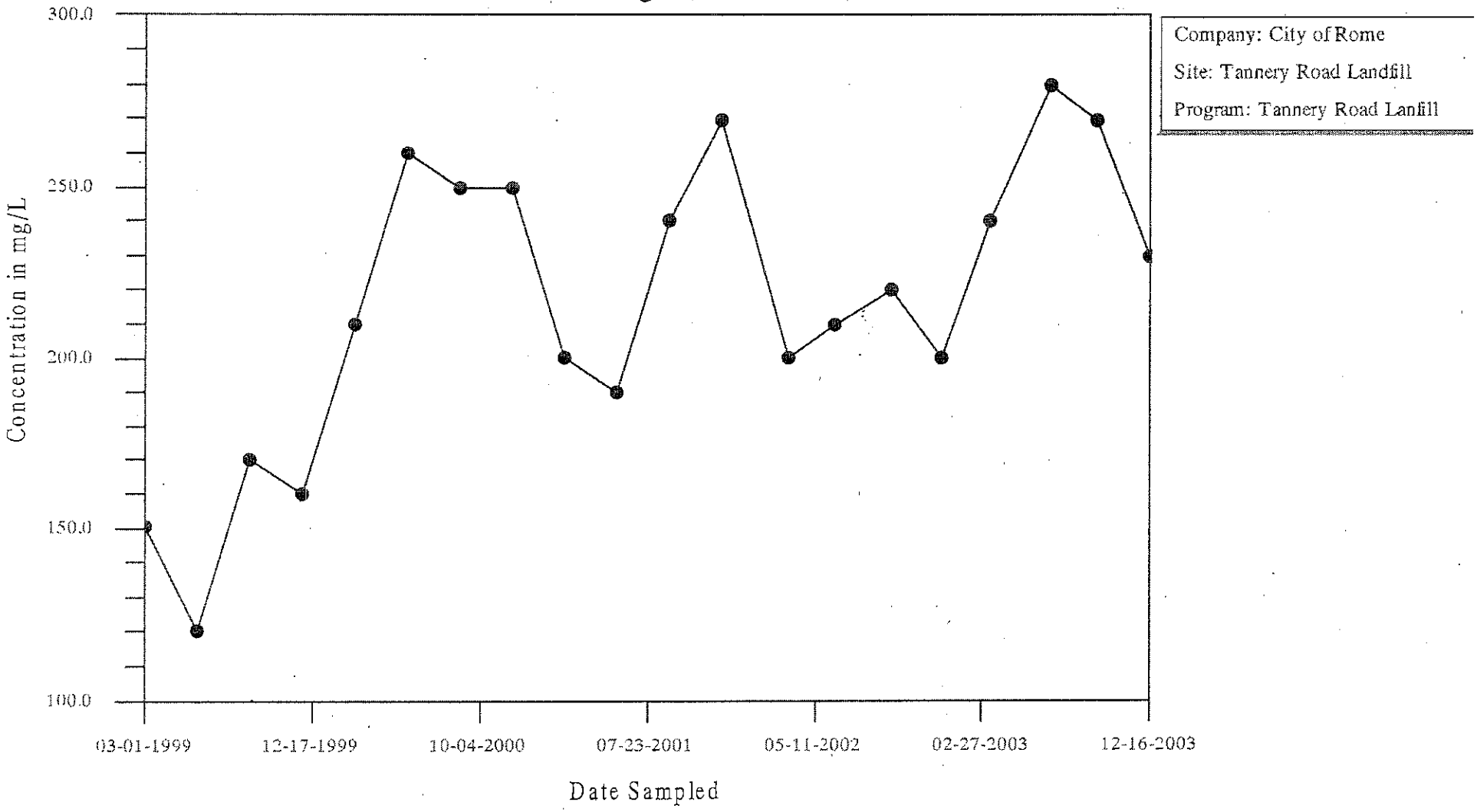
Time-Series Plot

Total Dissolved Solids, LMW-10



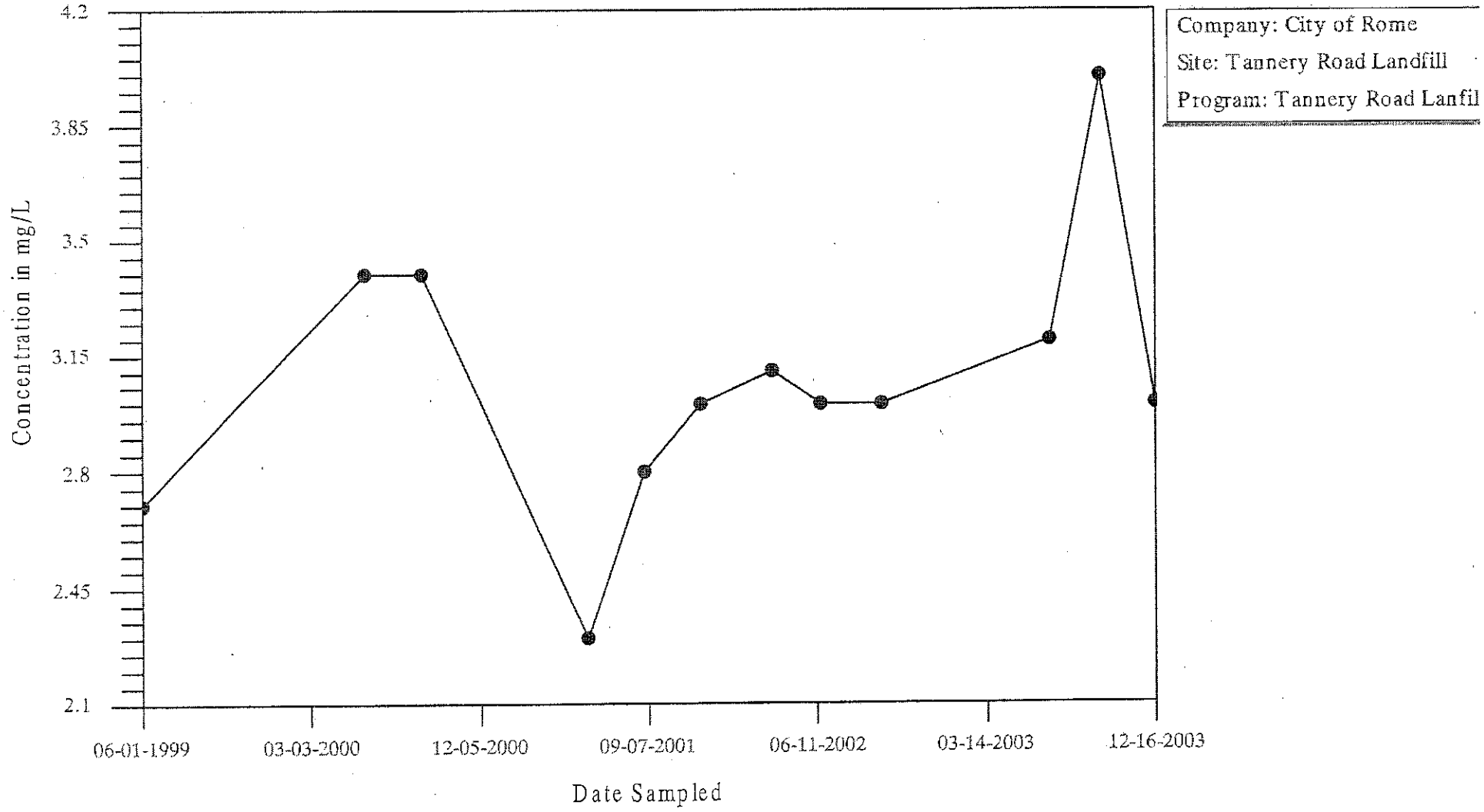
Time-Series Plot

Ammonia-Nitrogen, LMW-12



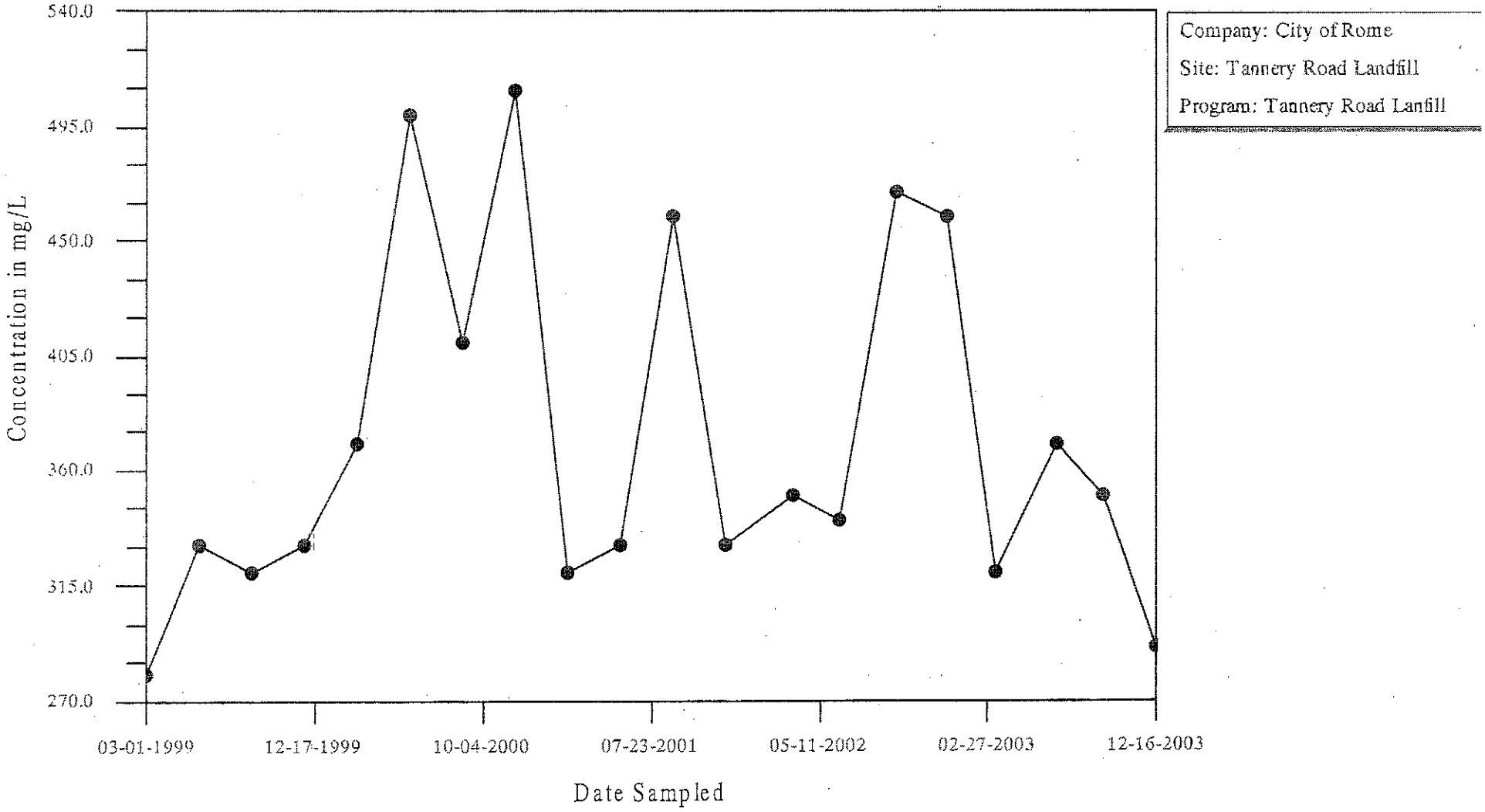
Time-Series Plot

Boron, LMW-12



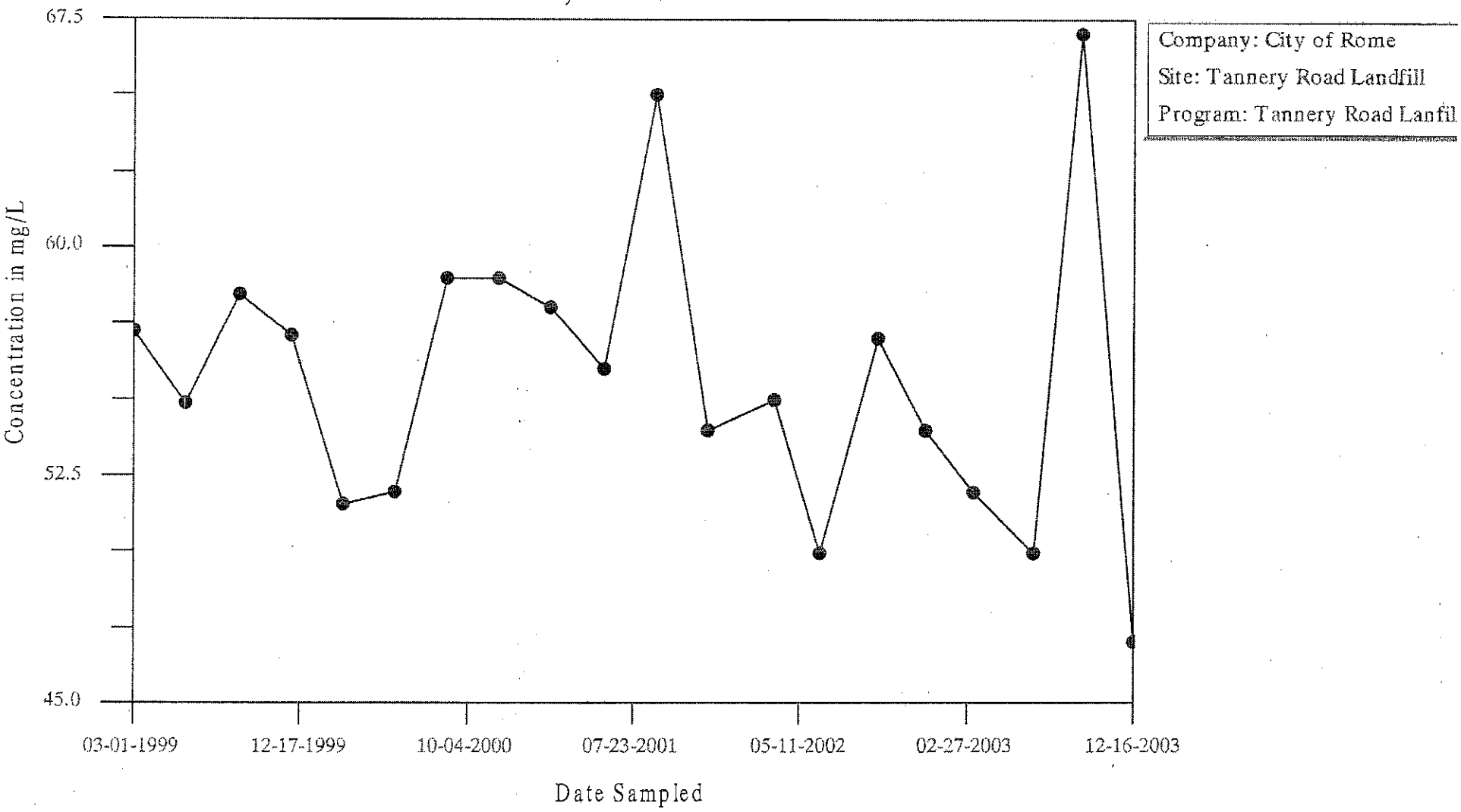
Time-Series Plot

Chloride, LMW-12



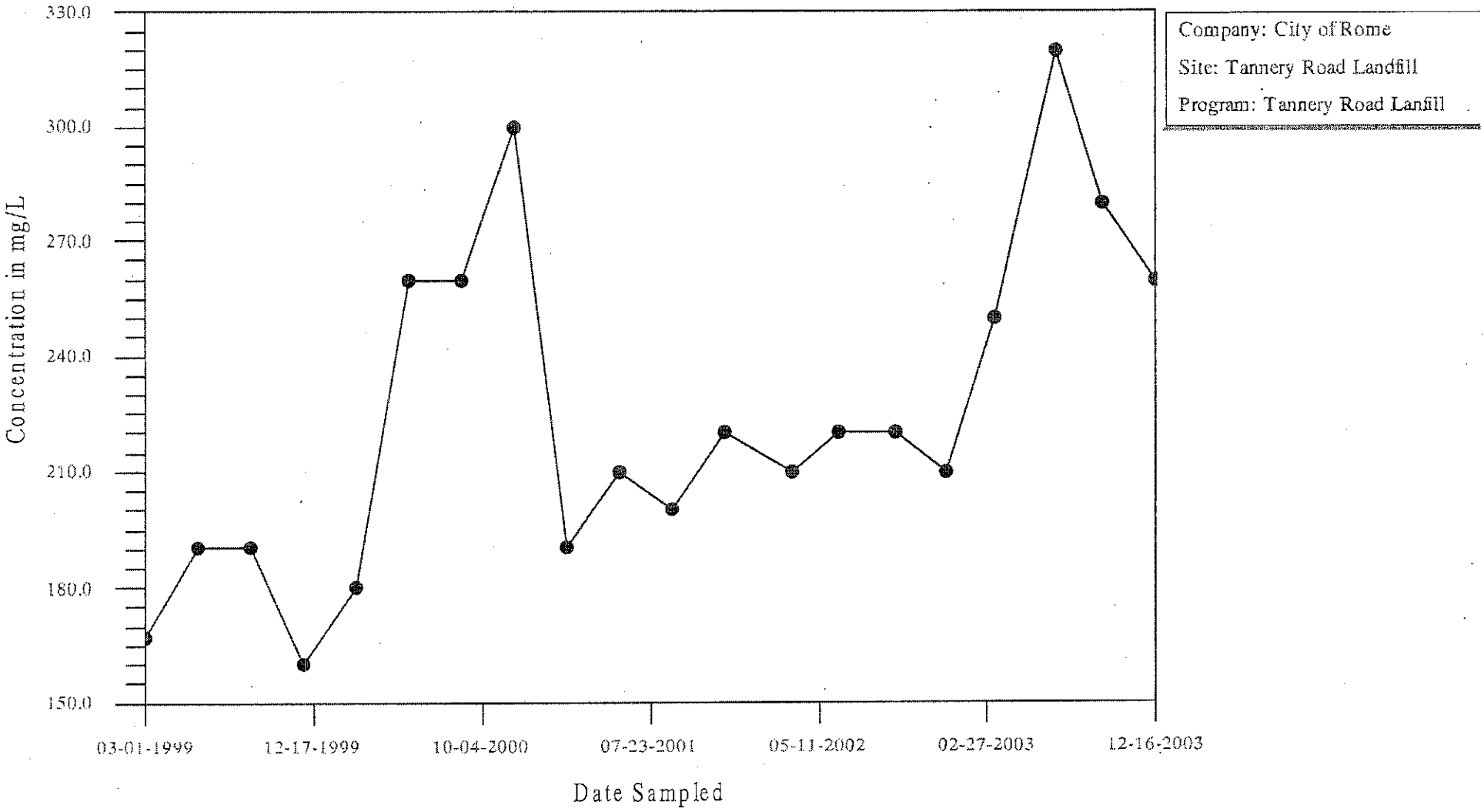
Time-Series Plot

Iron, LMW-12



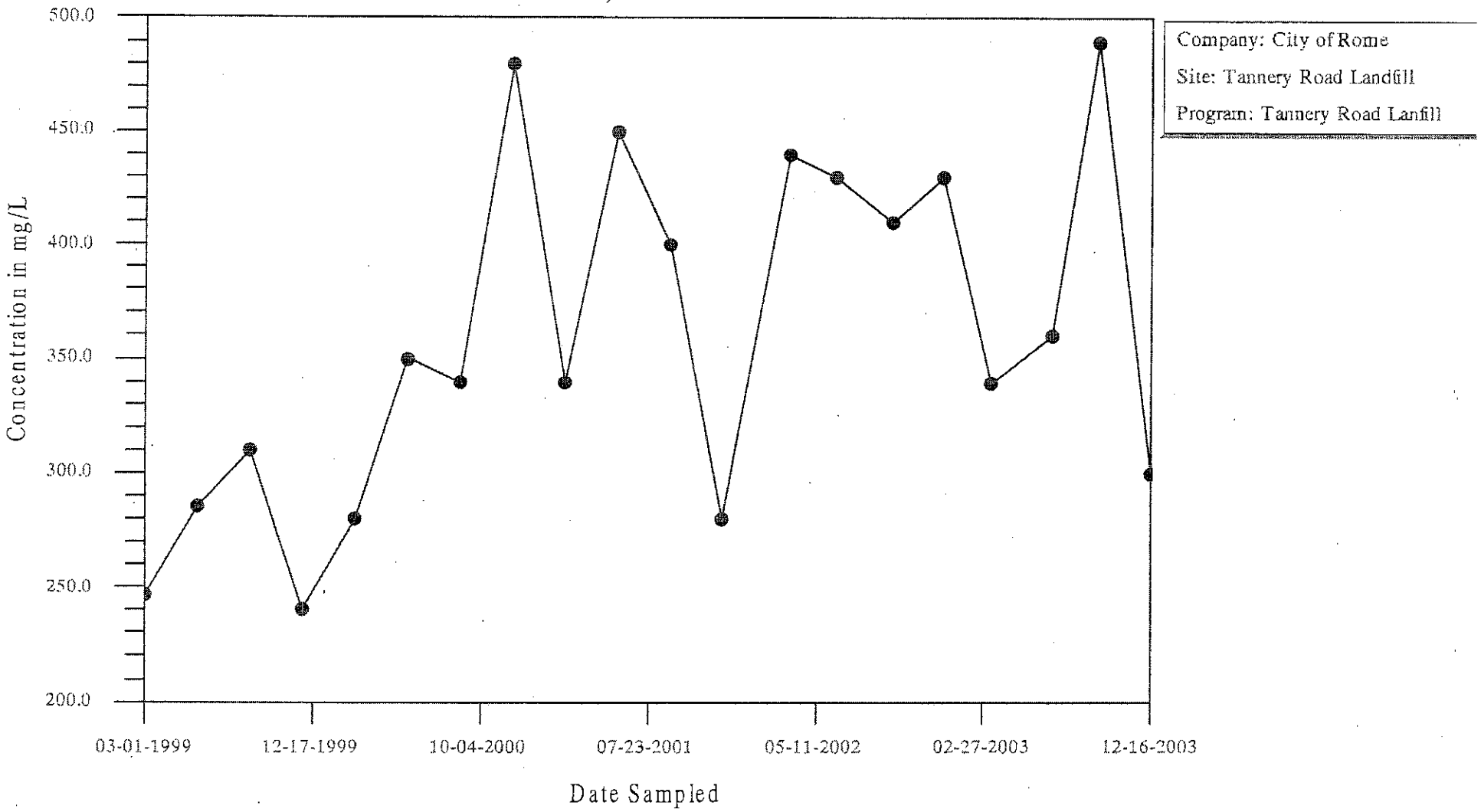
Time-Series Plot

Potassium, LMW-12



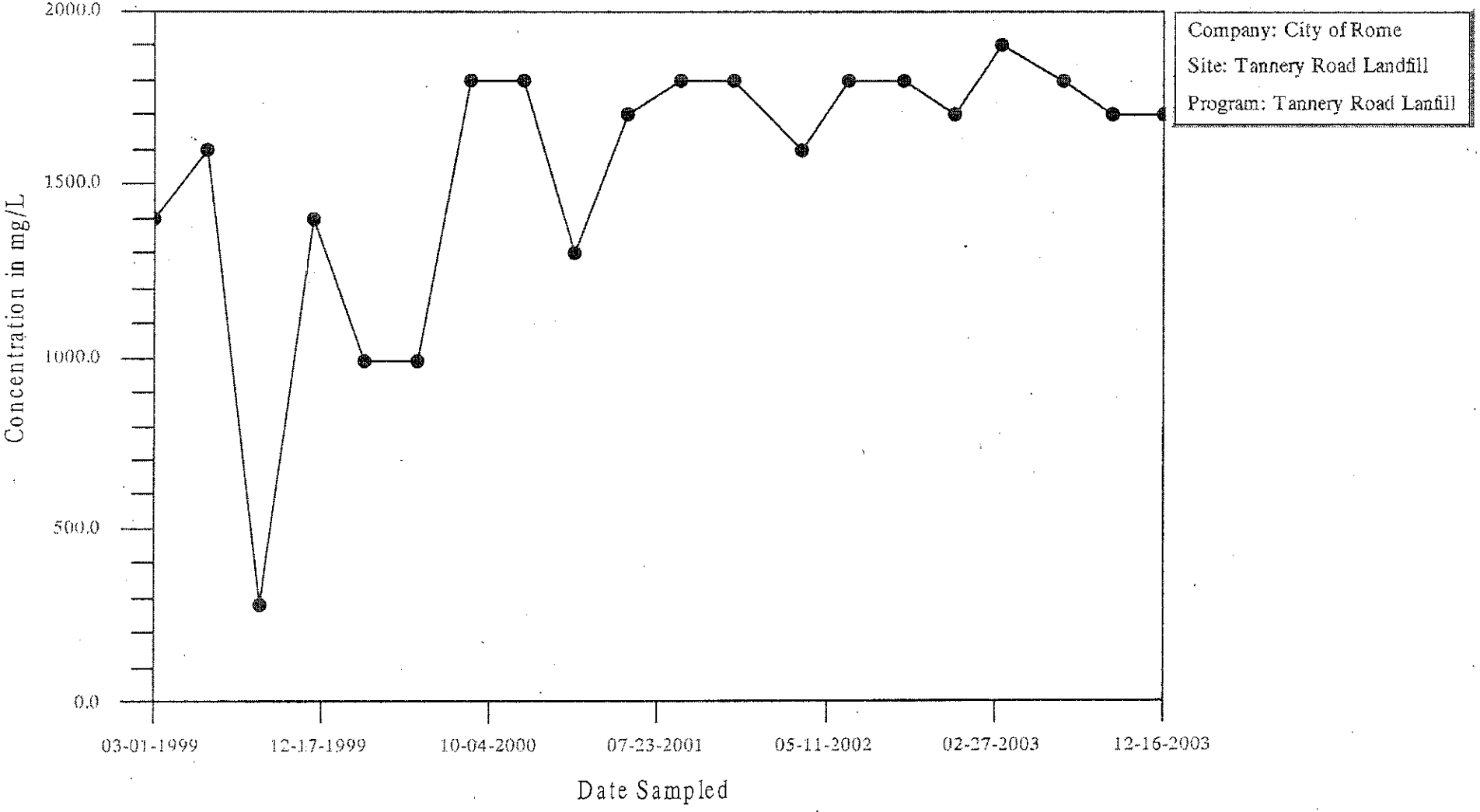
Time-Series Plot

Sodium, LMW-12



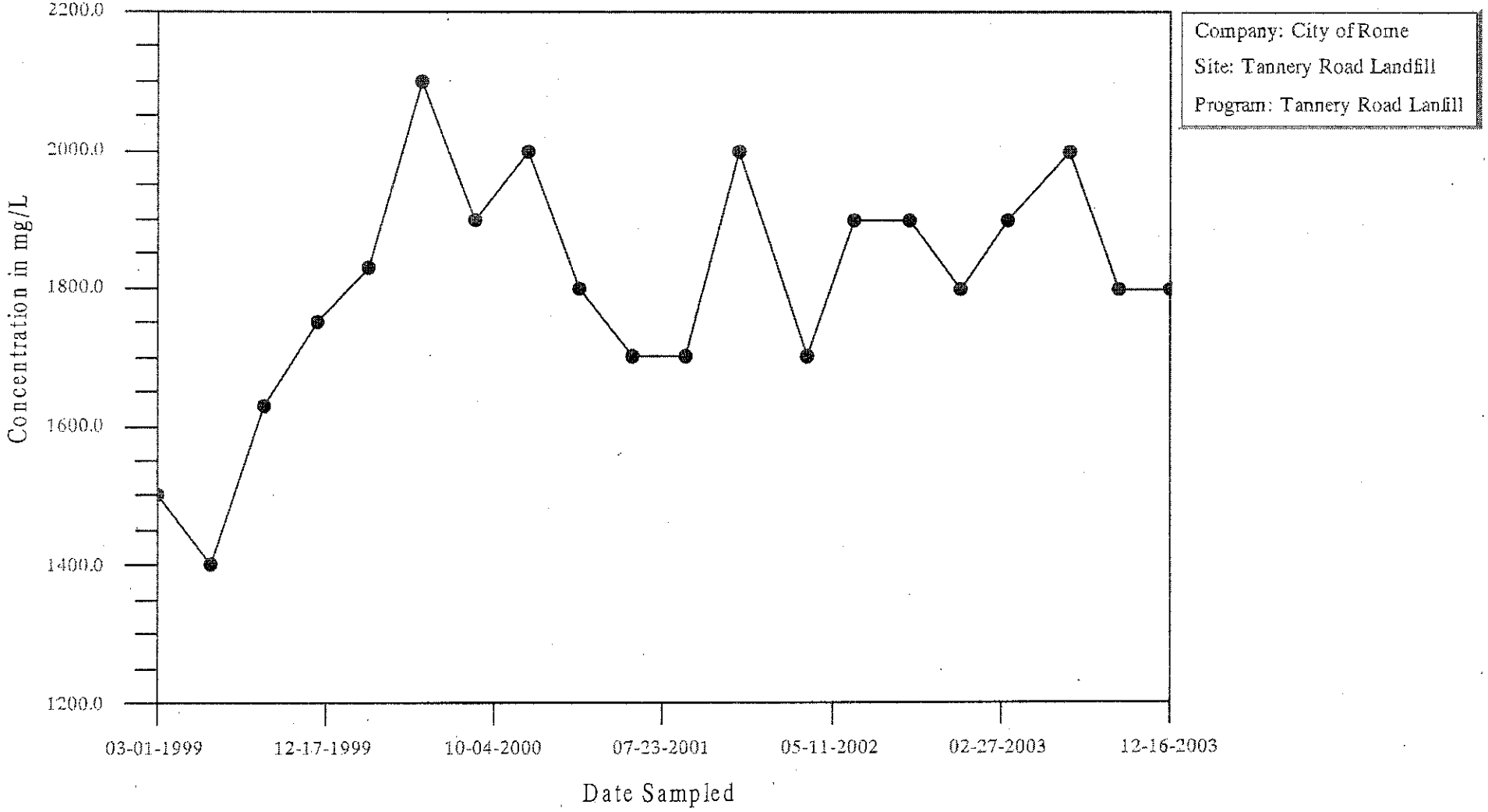
Time-Series Plot

Total Alkalinity, LMW-12



Time-Series Plot

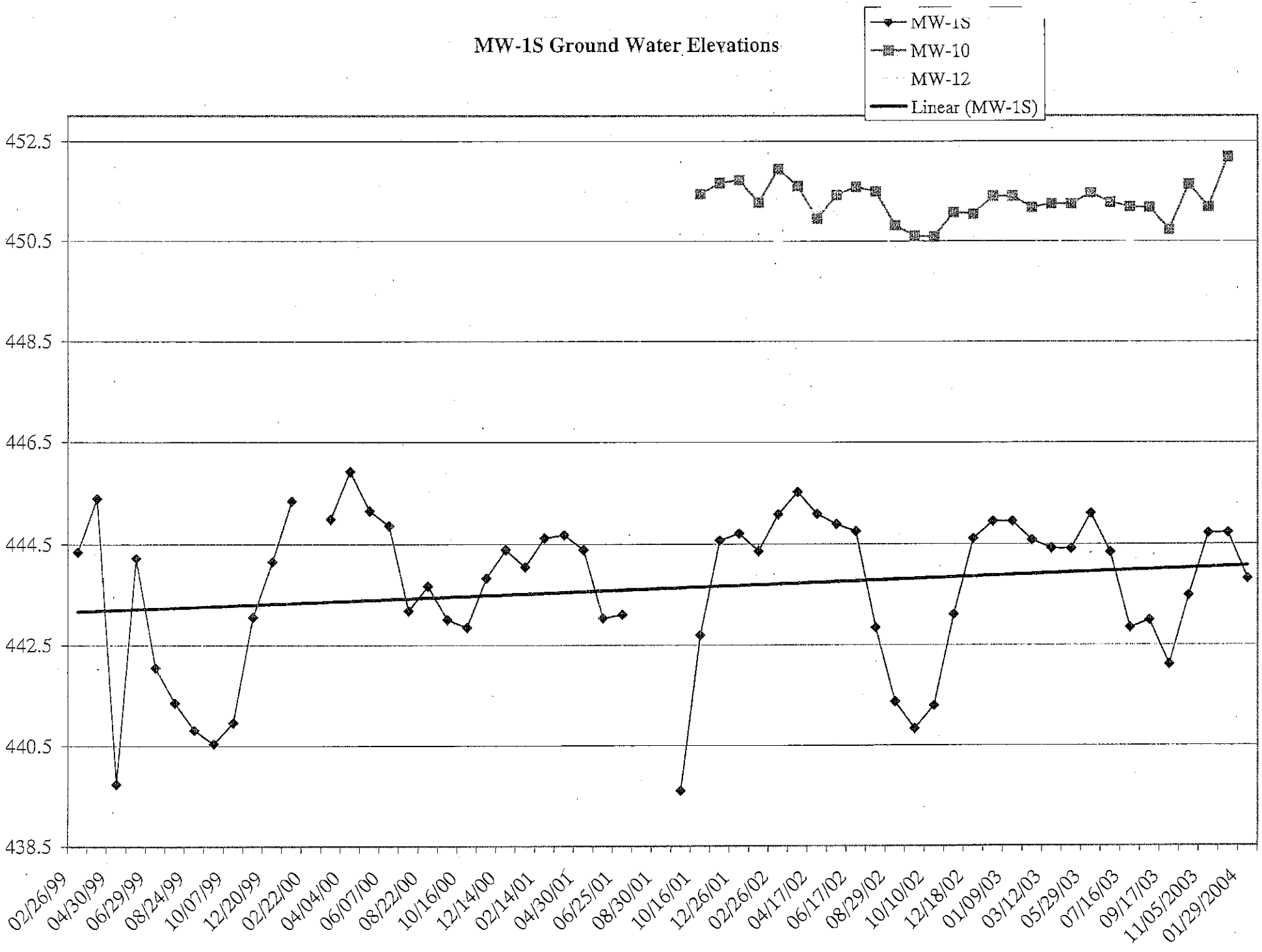
Total Dissolved Solids, LMW-12

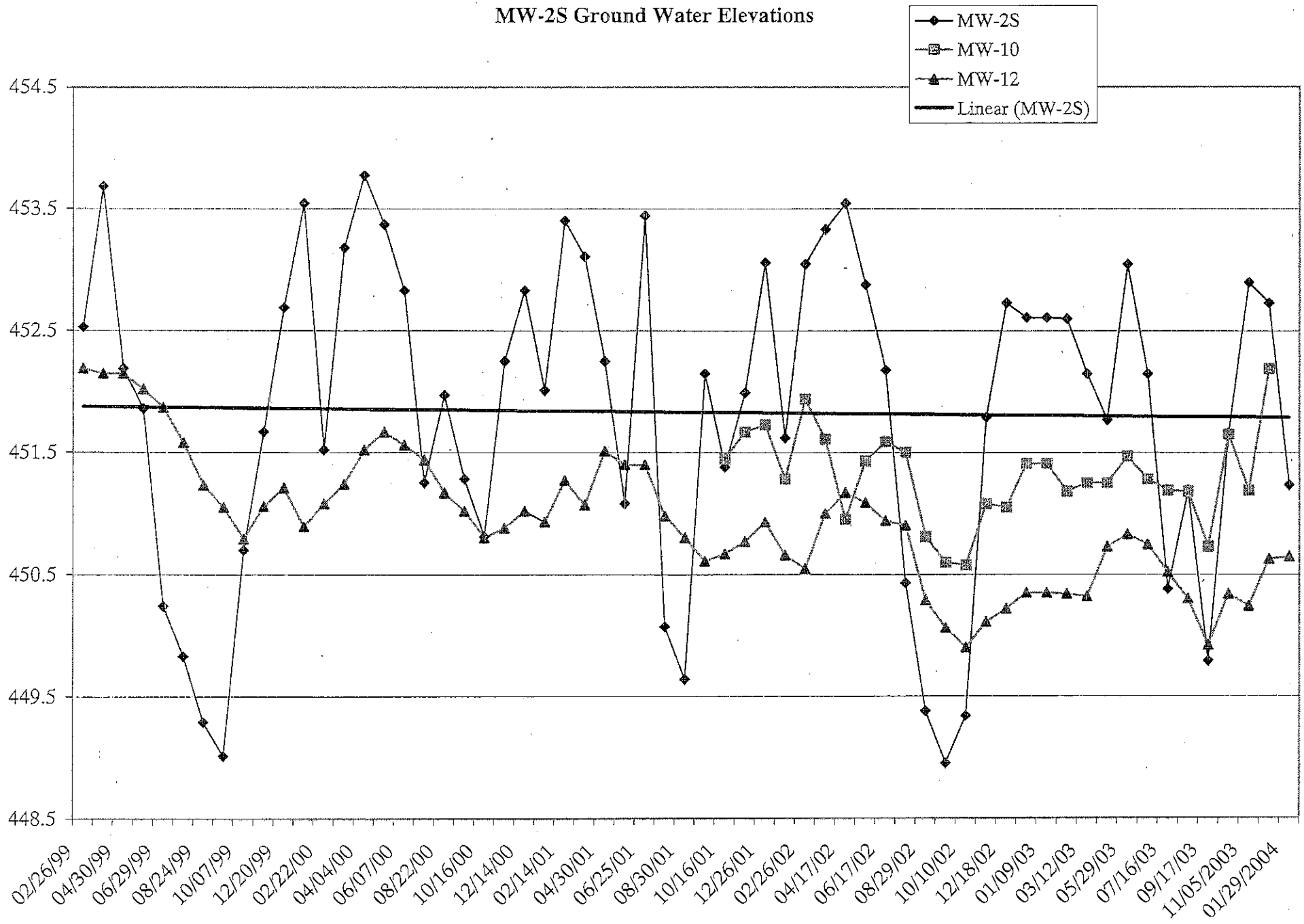


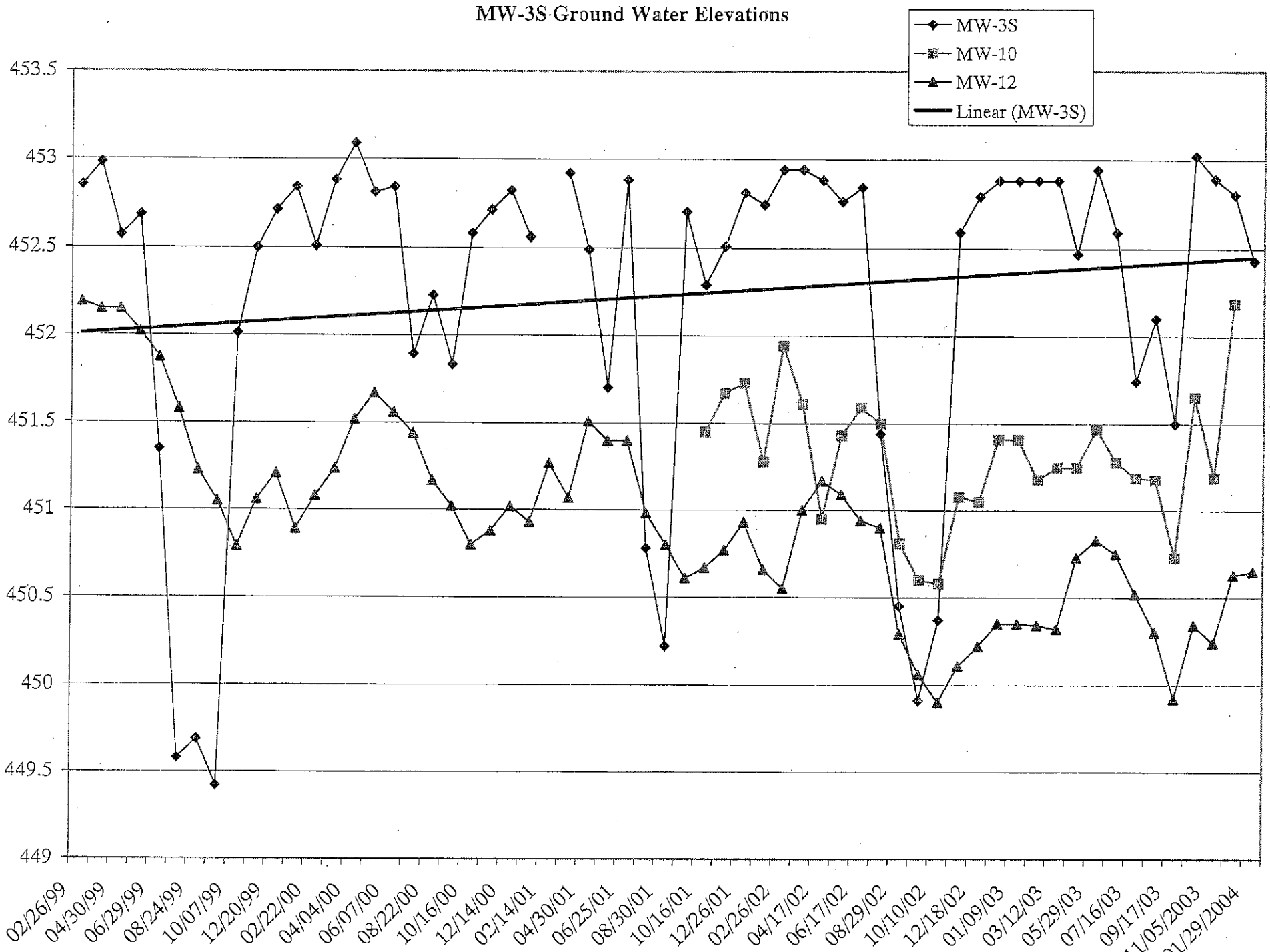
APPENDIX C

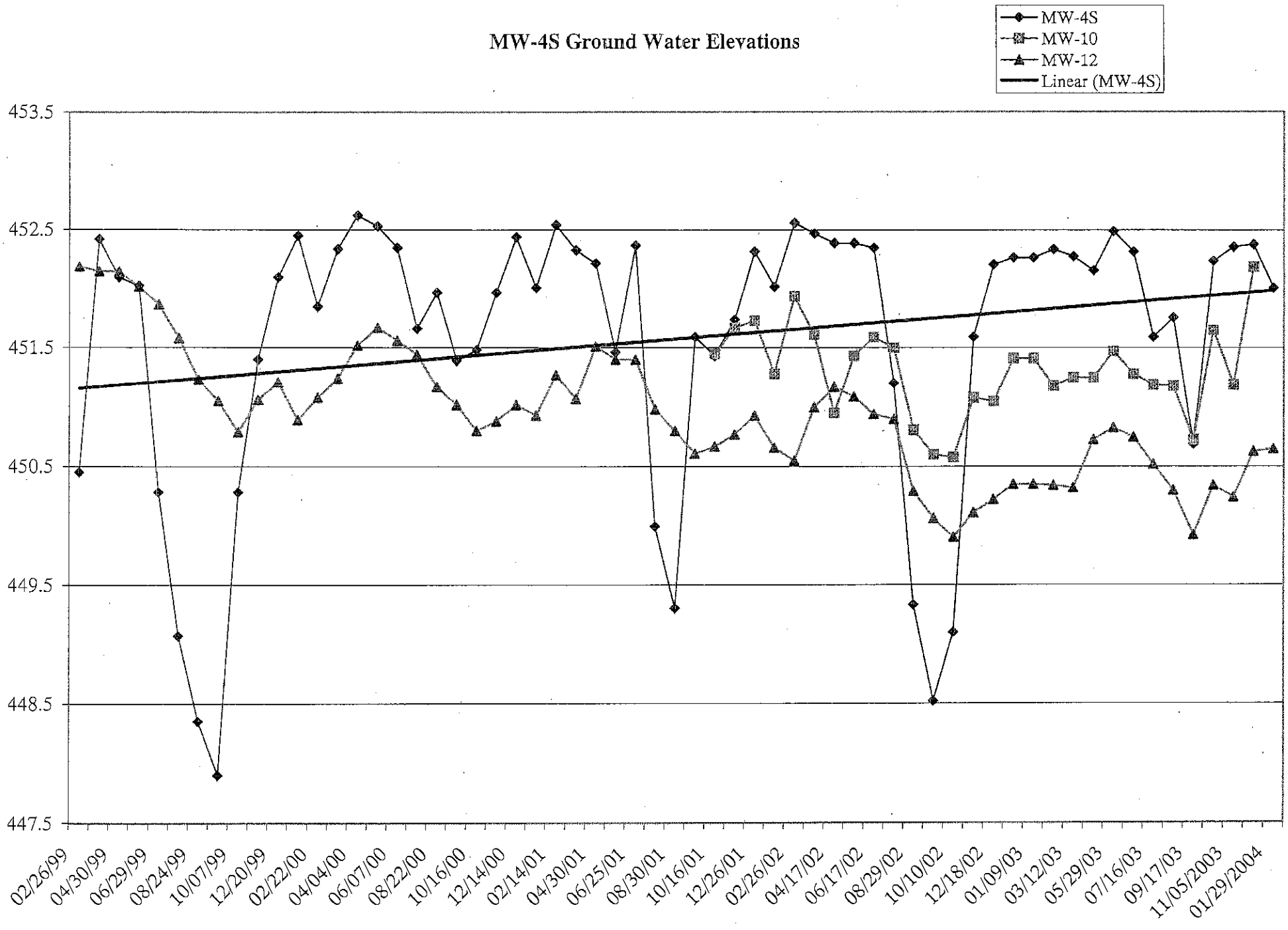
MONITORING WELL AND LEACHATE WELL

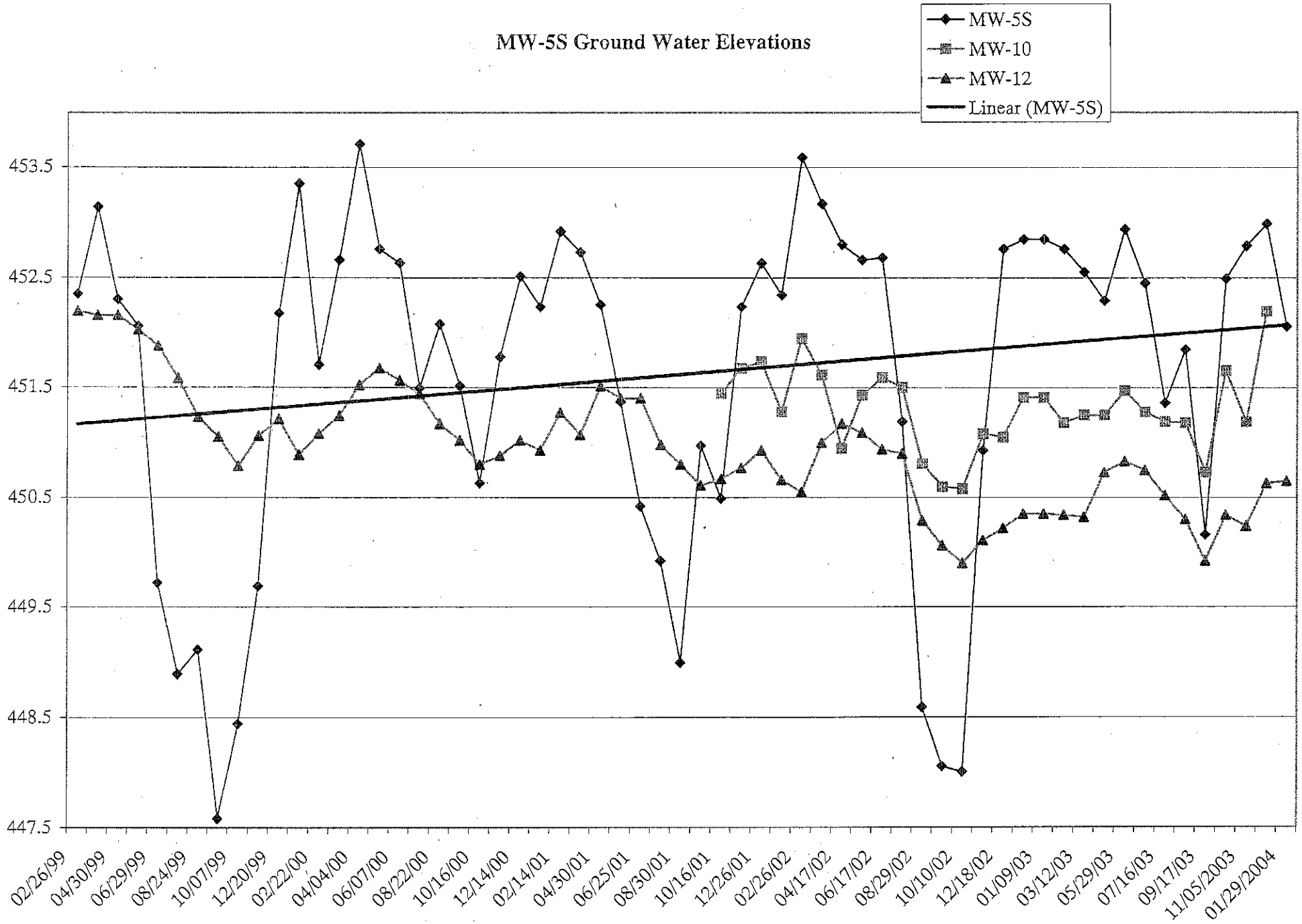
GROUND WATER ELEVATION DATA

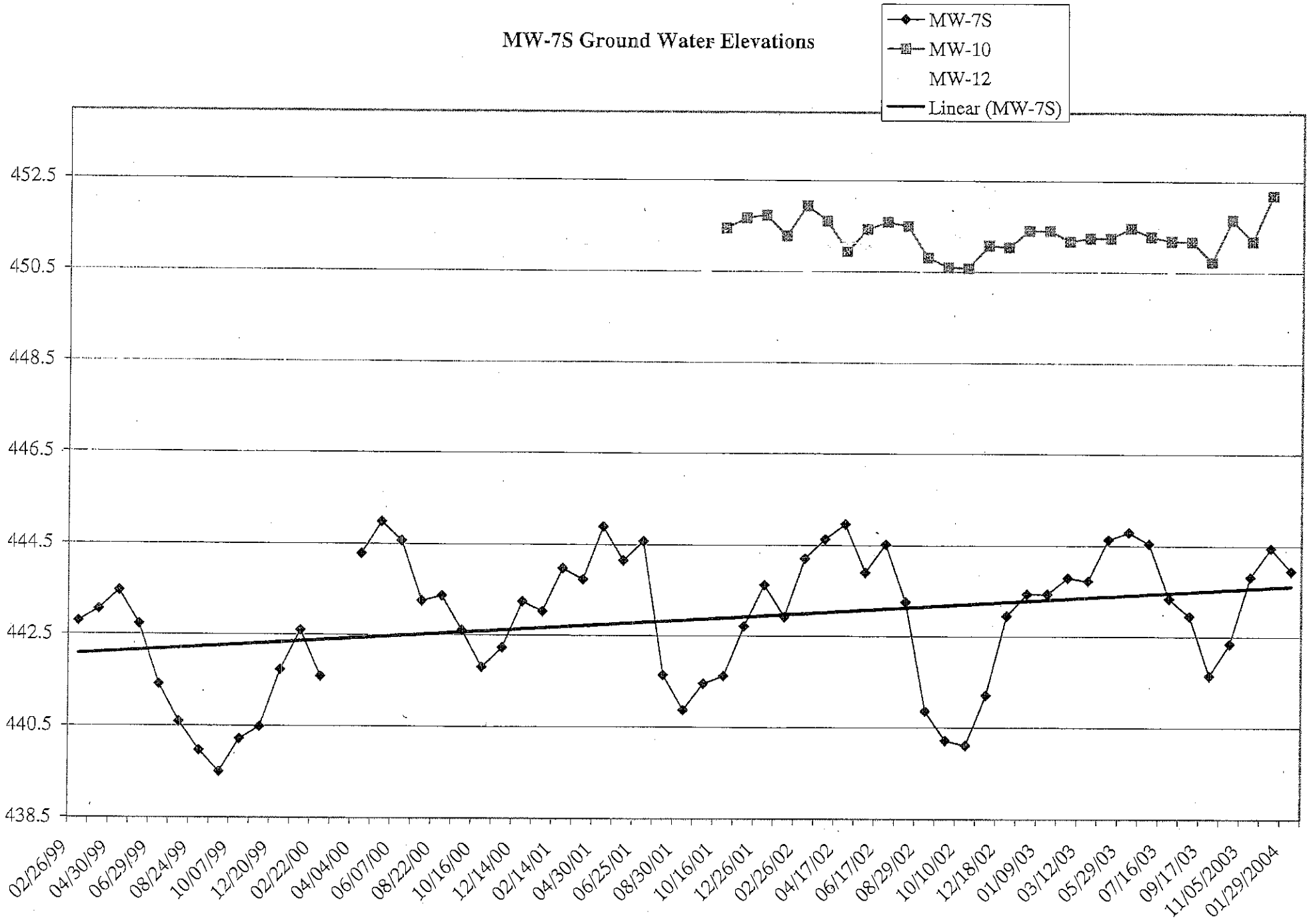

MW-1S Ground Water Elevations
MW-1S
MW-10
MW-12
Linear (MW-1S)
452.5
450.5
448.5
446.5
444.5
442.5
440.5
438.5
02/26/99
04/30/99
06/29/99
08/24/99
10/07/99
12/20/99
02/22/00
04/04/00
06/07/00
08/22/00
10/16/00
12/14/00
02/14/01
04/30/01
06/25/01
08/30/01
10/16/01
12/26/01
02/26/02
04/17/02
06/17/02
08/29/02
10/10/02
12/18/02
01/09/03
03/12/03
05/29/03
07/16/03
09/17/03
11/05/2003
01/29/2004

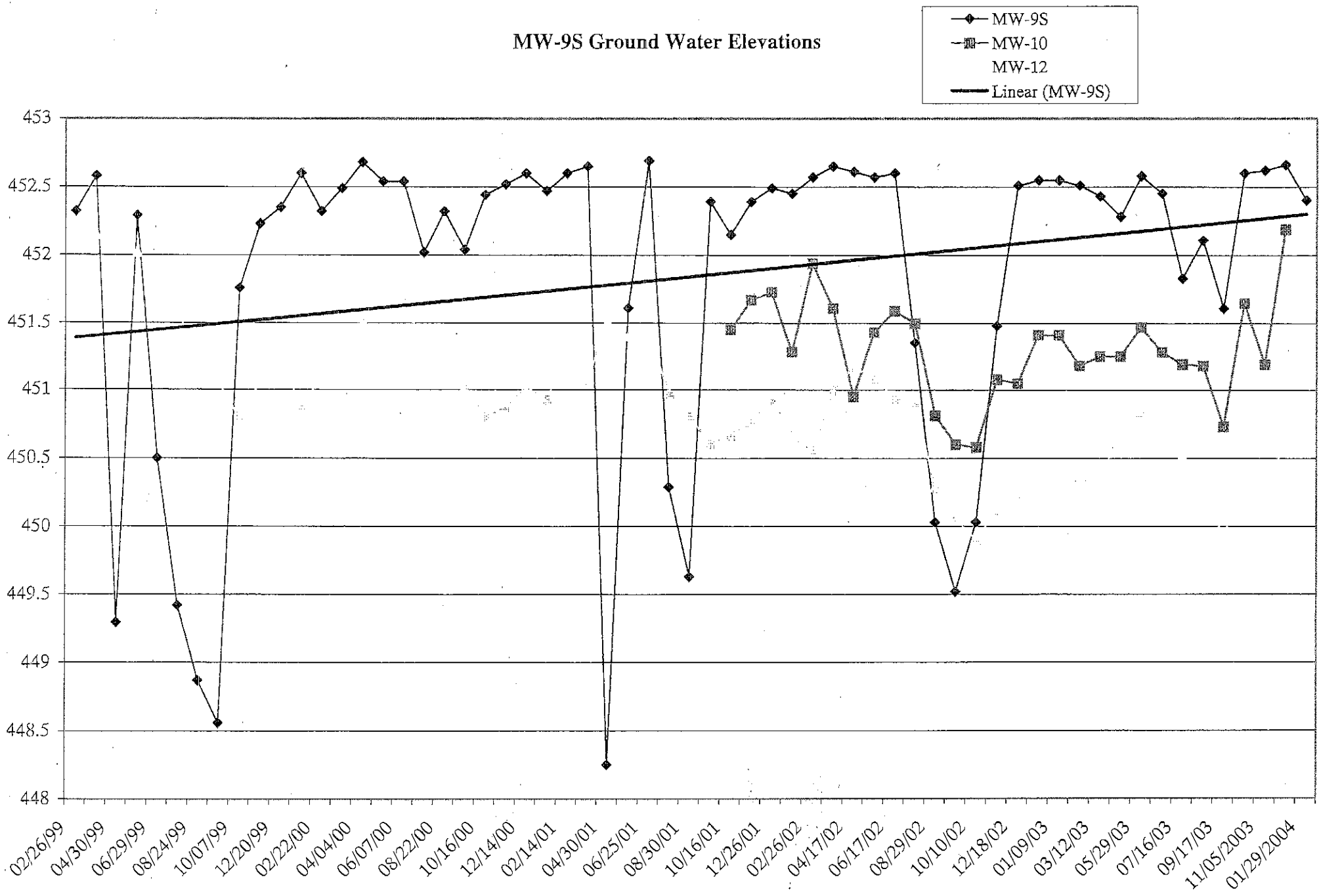

MW-2S Ground Water Elevations
MW-2S
MW-10
MW-12
Linear (MW-2S)
454.5
453.5
452.5
451.5
450.5
449.5
448.5
02/26/99
04/30/99
06/29/99
08/24/99
10/07/99
12/20/99
02/22/00
04/04/00
06/07/00
08/22/00
10/16/00
12/14/00
02/14/01
04/30/01
06/25/01
08/30/01
10/16/01
12/26/01
02/26/02
04/17/02
06/17/02
08/29/02
10/10/02
12/18/02
01/09/03
03/12/03
05/29/03
07/16/03
09/17/03
11/05/2003
01/29/2004


MW-3S Ground Water Elevations
MW-3S
MW-10
MW-12
Linear (MW-3S)
453.5
453
452.5
452
451.5
451
450.5
450
449.5
449
02/26/99
04/30/99
06/29/99
08/24/99
10/07/99
12/20/99
02/22/00
04/04/00
06/07/00
08/22/00
10/16/00
12/14/00
02/14/01
04/30/01
06/25/01
08/30/01
10/16/01
12/26/01
02/26/02
04/17/02
06/17/02
08/29/02
10/10/02
12/18/02
01/09/03
03/12/03
05/29/03
07/16/03
09/17/03
11/05/2003
01/29/2004

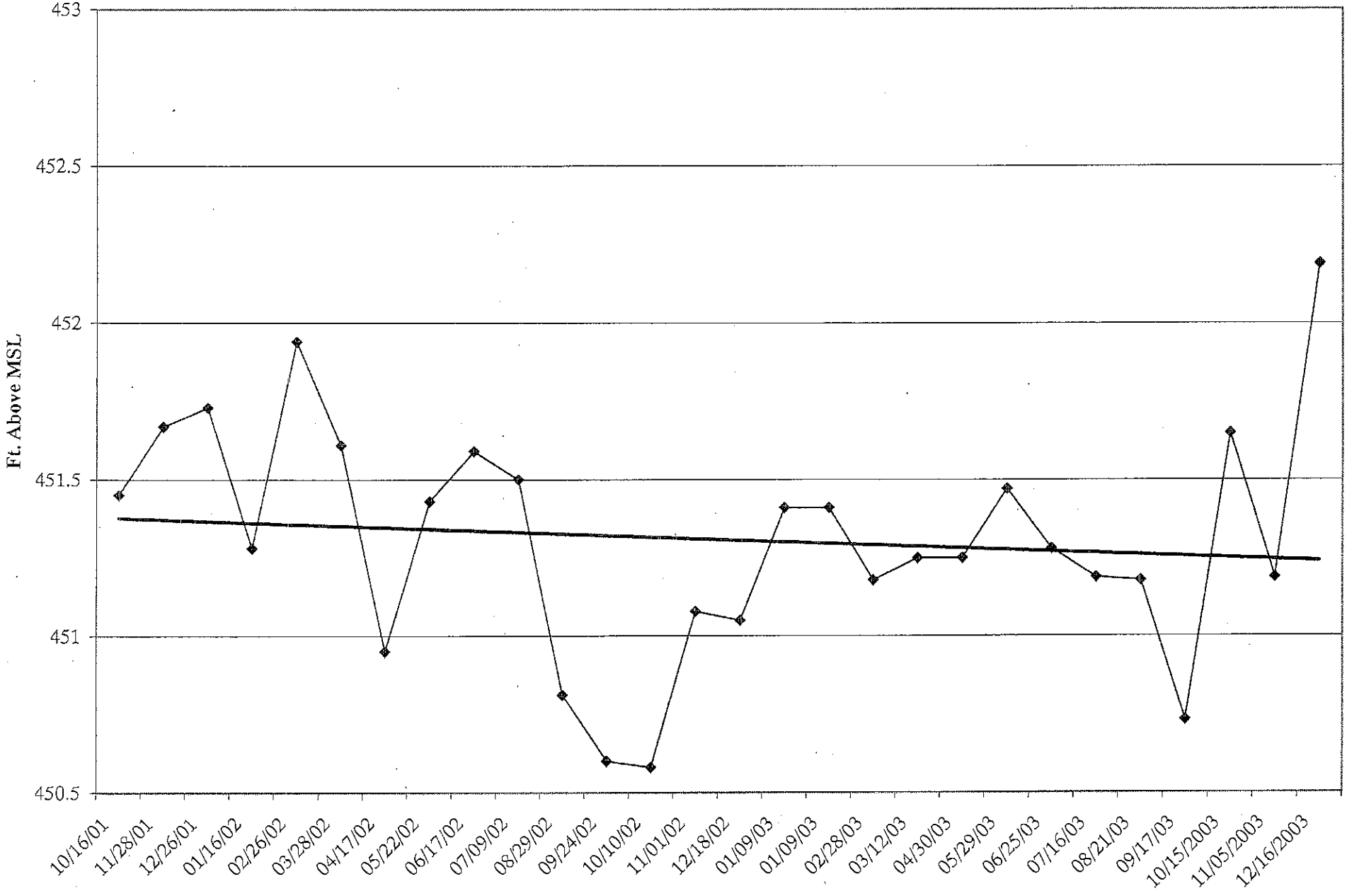

MW-4S Ground Water Elevations
MW-4S
MW-10
MW-12
Linear (MW-4S)
453.5
452.5
451.5
450.5
449.5
448.5
447.5
02/26/99
04/30/99
06/29/99
08/24/99
10/07/99
12/20/99
02/22/00
04/04/00
06/07/00
08/22/00
10/16/00
12/14/00
02/14/01
04/30/01
06/25/01
08/30/01
10/16/01
12/26/01
02/26/02
04/17/02
06/17/02
08/29/02
10/10/02
12/18/02
01/09/03
03/12/03
05/29/03
07/16/03
09/17/03
11/05/2003
01/29/2004

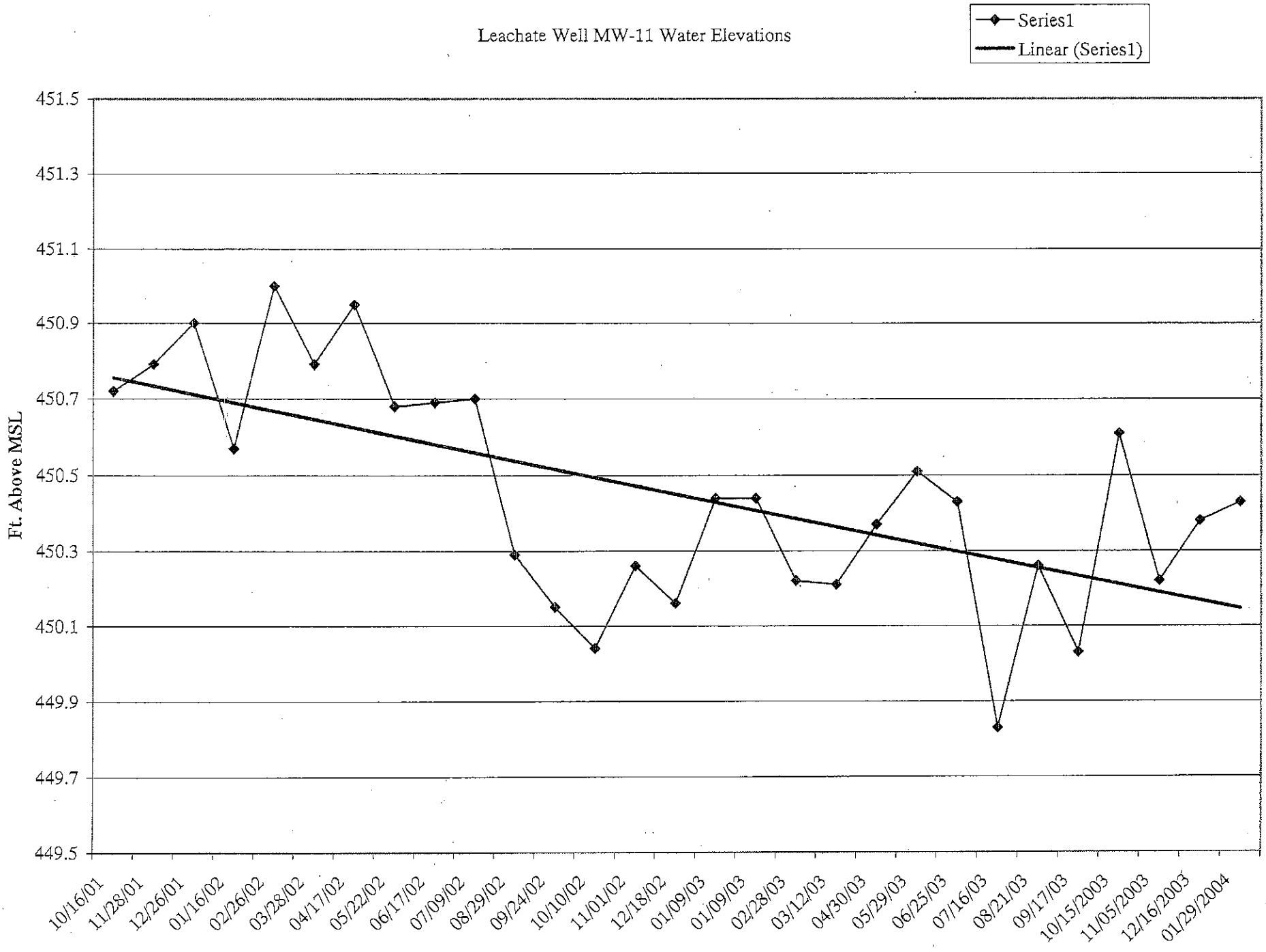

MW-5S Ground Water Elevations
MW-5S
MW-10
MW-12
Linear (MW-5S)
453.5
452.5
451.5
450.5
449.5
448.5
447.5
02/26/99
04/30/99
06/29/99
08/24/99
10/07/99
12/20/99
02/22/00
04/04/00
06/07/00
08/22/00
10/16/00
12/14/00
02/14/01
04/30/01
06/25/01
08/30/01
10/16/01
12/26/01
02/26/02
04/17/02
06/17/02
08/29/02
10/10/02
12/18/02
01/09/03
03/12/03
05/29/03
07/16/03
09/17/03
11/05/2003
01/29/2004


MW-7S Ground Water Elevations
MW-7S
MW-10
MW-12
Linear (MW-7S)
452.5
450.5
448.5
446.5
444.5
442.5
440.5
438.5
02/26/99
04/30/99
06/29/99
08/24/99
10/07/99
12/20/99
02/22/00
04/04/00
06/07/00
08/22/00
10/16/00
12/14/00
02/14/01
04/30/01
06/25/01
08/30/01
10/16/01
12/26/01
02/26/02
04/17/02
06/17/02
08/29/02
10/10/02
12/18/02
01/09/03
03/12/03
05/29/03
07/16/03
09/17/03
11/05/2003
01/29/2004

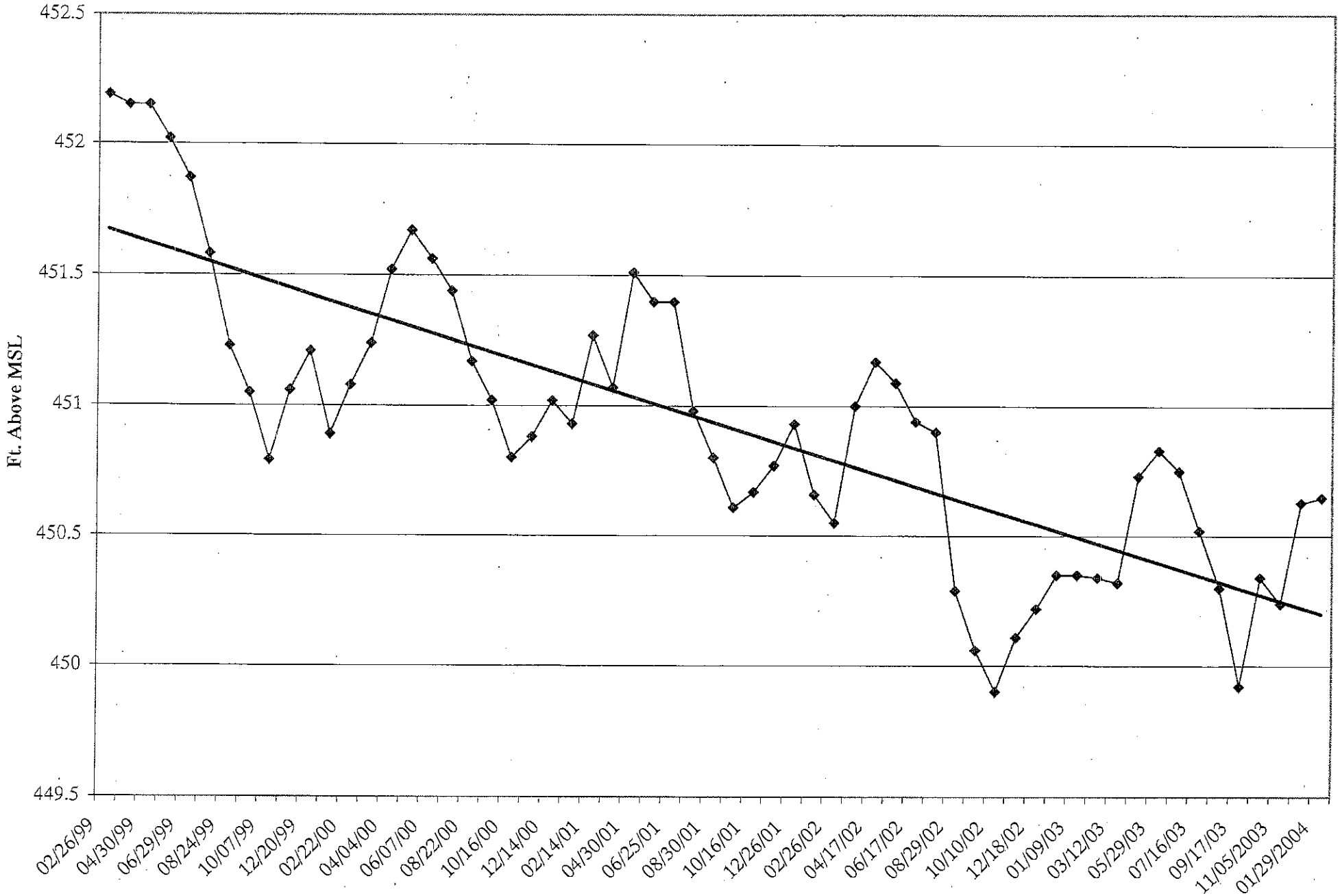

MW-9S Ground Water Elevations
MW-9S
MW-10
MW-12
Linear (MW-9S)
453
452.5
452
451.5
451
450.5
450
449.5
449
448.5
448
02/26/99
04/30/99
06/29/99
08/24/99
10/07/99
12/20/99
02/22/00
04/04/00
06/07/00
08/22/00
10/16/00
12/14/00
02/14/01
04/30/01
06/25/01
08/30/01
10/16/01
12/26/01
02/26/02
04/17/02
06/17/02
08/29/02
10/10/02
12/18/02
01/09/03
03/12/03
05/29/03
07/16/03
09/17/03
11/05/2003
01/29/2004

Leachate Well MW-10 Water Elevations




Leachate Well MW-11 Water Elevations
Series1
Linear (Series1)
Ft. Above MSL
451.5
451.3
451.1
450.9
450.7
450.5
450.3
450.1
449.9
449.7
449.5
10/16/01
11/28/01
12/26/01
01/16/02
02/26/02
03/28/02
04/17/02
05/22/02
06/17/02
07/09/02
08/29/02
09/24/02
10/10/02
11/01/02
12/18/02
01/09/03
01/09/03
02/28/03
03/12/03
04/30/03
05/29/03
06/25/03
07/16/03
08/21/03
09/17/03
10/15/2003
11/05/2003
12/16/2003
01/29/2004

Leachate Well MW-12 Water Elevations



TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 2/28/03 9:10 Inspector: Brent Zimmer
Weather: Sunny 32°

GENERAL INSPECTION - To Be Completed Monthly

Notes Problems

General Site Condition:

Gates - condition and locks for inner & outer gates: OK
Access Road - surface/paving/snow: OK
Overall appearance (trash/litter): OK

Pump Station at Tannery Road:

Condition: OK
Pump #1 Hours: 33629 Pump #2 Hours: 29061

Leachate Collection System:

Panel - note conditions and any alarms: OK None
Autodialer - test: OK Not Performed
Totallizers (on Panel display at Tannery Rd)
RW-1 3499632 RW-3 3614726
RW-2 5318933 RW-4 442660

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows: OK
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity: OK
Meter Pit - open lid, check heater, leaks, etc.: OK Some Water
Panel note conditions and any alarms: OK None
Totallizers (in meter pit)
RW-1 37182 RW-3 17202
RW-2 64317 RW-4 9531
Hour Meters
RW-1 102467 RW-3 227092
RW-2 108370 RW-4 63576

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:
Western seep condition: Snow Covered 3'
North seep condition: " " "
Gas vents - general condition: OK
- Unusual odors, list vents/describe. None
Flares ignited: OK One.
Perimeter fence: OK
Erosion/animal burrows NO If YES, describe:

1.55

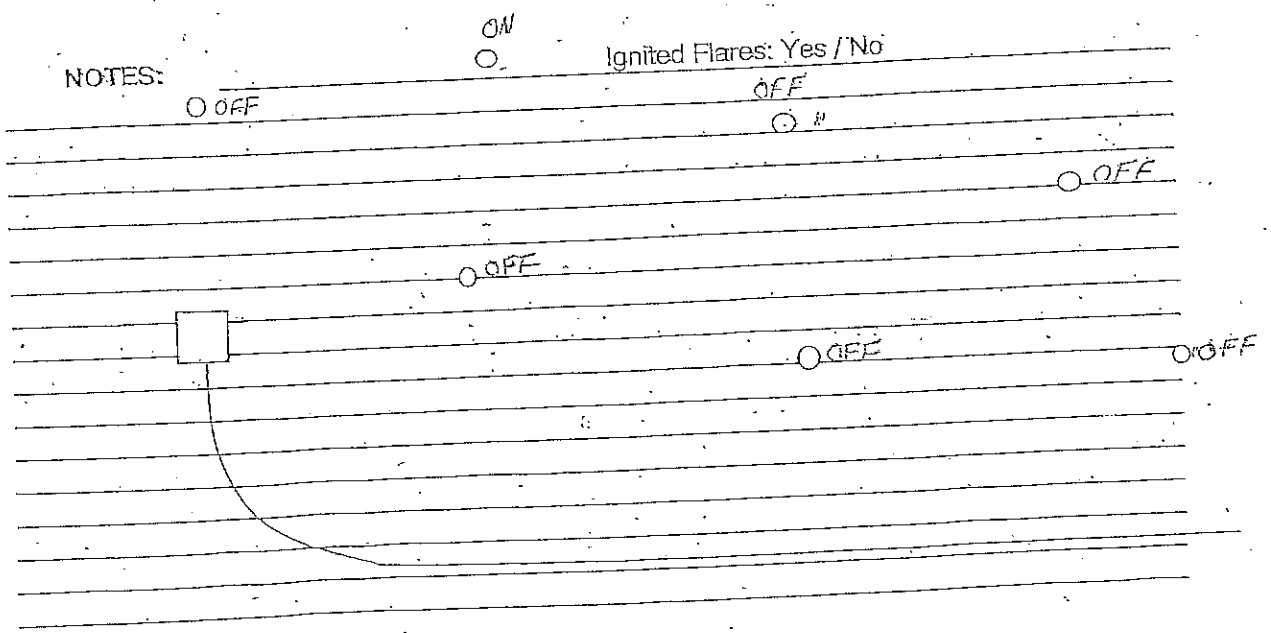
TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/26/03 9:10 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.01	444.58	Good
MW - 2S	459.44	6.84	452.6	Good
MW - 3S	456.4	—	—	Frozen
MW - 4S	456.19	3.85	452.34	Good
MW - 5S	457.15	4.39	452.76	Good
MW - 7S	452.25	8.46	443.79	Good
MW - 9S	456.38	3.87	452.51	Good
MW - 10	486.3	35.12	451.18	Good
MW - 11	502.4	52.18	450.22	Good
MW - 12	483.11	32.77	450.34	Good
PZ - 1*	454.37	6.18	448.19	Good

NOTES: Ignited Flares: Yes / No



TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/26/03 9:00 Inspector: Brent Zimmer Ed Fahrenkopf
Weather: Snow/sleet

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	Snow Drifts
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road: Condition:	OK	

Pump #1 Hours: 33898 Pump #2 Hours: 29284

Leachate Collection System:

Panel - note conditions and any alarms: OK Call RW-4
Autodialer - test OK Not performed
Totallizers (on Panel display at Tannery Rd)

RW-1 3515205 RW-3 3632518
RW-2 535261 RW-4 442660

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows OK
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity OK
Meter Pit - open lid, check heater, leaks, etc, OK Some water
Panel note conditions and any alarms: OK None
Totallizers (in meter pit)

RW-1 37338 RW-3 17381
RW-2 64650 RW-4 9983

Hour Meters

RW-1 102870 RW-3 229983
RW-2 108859 RW-4 66467

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:
Western seep condition: ok
North seep condition: ok
Gas vents - general condition OK
- Unusual odors, list vents/describe. None
Flares ignited OK None
Perimeter fence OK
Erosion/animal burrows NO If YES, describe:

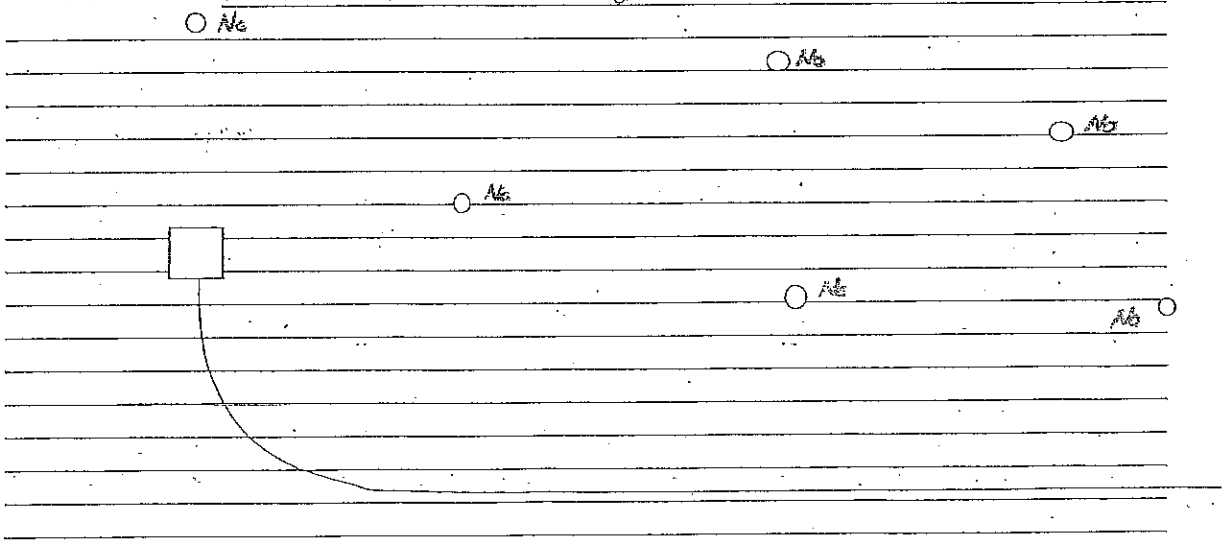
TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/12/03 9:00 Inspector: Brent Zimmer Ed Fahrenkopf

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5,17	444.42	Good
MW - 2S	459.44	7,29	452.15	Good
MW - 3S	456.4	—	—	Frozen
MW - 4S	456.19	3,91	452.28	Good
MW - 5S	457.15	4,60	452.55	Good
MW - 7S	452.25	8,53	443.72	Good
MW - 9S	456.38	3,96	452.43	Good
MW - 10	486.3	35.05	451.25	Good
MW - 11	502.4	52.19	450.21	Good
MW - 12	483.11	32.79	450.32	Good
PZ - 1*	454.37	6.53	447.84	Good

NOTES: ○ No Ignited Flares: Yes / No



TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 4/30/03 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.18		
MW - 2S	459.44	7.67		
MW - 3S	456.4	3.93		
MW - 4S	456.19	4.03		
MW - 5S	457.15	4.86		
MW - 7S	452.25	7.62		
MW - 9S	456.38	4.10		
MW - 10	486.3	35.05		Hdcin LF Cap around well needs Repair
MW - 11	502.4	50.03		Same as above
MW - 12	483.11	32.38		
PZ - 1*	452	6.37		

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES: MW-7D - 7.49
MW-1D 5.69
MW-2D 7.75
MW-4D 4.74 @ Not Life
MW-8 5.48 @ Not Life

@ Not Life

@ Not Life

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 4/30/03 Inspector: EGT

Weather: Mostly Sunny 40°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 35123	Pump #2 Hours: 30304	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	

Totallizers (In meter pit)

RW-1 3798200 RW-3 1823000

RW-2 660800 RW-4 1207200

Hour Meters

RW-1 104531 RW-3 240539

RW-2 110859 RW-4 78284

Landfill Cover Inspection		
Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:	NO SEEP	
North seep condition:	NO SEEP	
Gas vents - general condition	OK	
- Unusual odors, list vents/describe.		
Flares ignited	OK	
Perimeter fence	OK	Except man gates
Erosion/animal burrows	NO	If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 5/29/03 Inspector: Ed Fahrenkopf
Weather: Cloudy 55°

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	ok
Access Road - surface/paving/snow	OK	ok
Overall appearance (trash/litter)	OK	OK
Pump Station at Tannery Road: Condition:	OK	ok
Pump #1 Hours: 035833 Pump #2 Hours: 030886		
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	NONE
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	ok
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	ok
Meter Pit - open lid, check heater, leaks, etc.	OK	ok
Panel note conditions and any alarms:	OK	NONE

Totallizers (in meter pit)

RW-1	3835400	RW-3	1894100
RW-2	6680900	RW-4	1405100

Hour Meters

RW-1	105498	RW-3	244369
RW-2	112042	RW-4	085168

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:
Western seep condition: Minor seepage observed
North seep condition: no change still present
Gas vents - general condition OK OK
- Unusual odors, list vents/describe. NONE
Flares ignited NO OK NO flares ignited
Perimeter fence ok except men gates OK
Erosion/animal burrows NO If YES describe:
Small erosion southside at fence west end constructed last weekend

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 5/29/03 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.49	445.1	OK
MW - 2S	459.44	6.39	453.05	OK
MW - 3S	456.4	3.46	452.94	OK
MW - 4S	456.19	3.70	452.49	OK
MW - 5S	457.15	4.21	452.94	OK
MW - 7S	452.25	7.46	444.79	OK
MW - 9S	456.38	3.80	452.58	OK
MW - 10	486.3	34.83	451.47	OK
MW - 11	502.4	51.89	450.51	OK
MW - 12	483.11	32.28	450.83	OK
PZ - 1*	452	5.68	446.32	OK

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

MW-7D 7.45
MW-1D 5.10
MW-2D 6.61
MW-20I 14.04 TD = 62.34
MW-2I 7.64
MW-4D 4.54
MW-4D 4.33
MW-5D 4.19

No flares were ignited.

Note small seep North side LF at fence ½ way between MW-2 & MW-3

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/25/03 Inspector: EEF

Weather: Sunny 85°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	✓
Access Road - surface/paving/snow	OK	✓
Overall appearance (trash/litter)	OK	✓
Pump Station at Tannery Road: Condition:	OK	✓
Pump #1 Hours: 036513 Pump #2 Hours:		031453
Leachate Collection System:		
Panel - note conditions and any alarms:	(OK)	none
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	X
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	X
Meter Pit - open lid, check heater, leaks, etc.	OK	X
Panel note conditions and any alarms:	(OK)	none

Totallizers (in meter pit)

RW-1 3P70700 RW-3 1934300

RW-2 6755600 RW-4 1582100

Hour Meters

RW-1 106402 RW-3 253865

RW-2 113162 RW-4 091680

Landfill Cover Inspection		
Leachate seeps Any new seeps	(NO)	If YES, describe:
Western seep condition:		
North seep condition:		
Gas vents - general condition	OK	X
- Unusual odors, list vents/describe.		
Flares ignited	OK	NO
Perimeter fence	OK	Except manhole
Erosion/animal burrows NO	If YES, describe:	Small erosion South East corner near South end of wetland.

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 6/23/03 Inspector: EGS

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.25		
MW - 2S	459.44	7.29		
MW - 3S	456.4	2.81		
MW - 4S	456.19	3.87		
MW - 5S	457.15	4.70		
MW - 7S	452.25	7.71		
MW - 9S	456.38	3.93		
MW - 10	486.3	35.02		
MW - 11	502.4	51.99		
MW - 12	483.11	32.36		
PZ - 1*	*452*	6.60		

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

MW-1A 5.72
MW-2D 7.41
MW-4D 4.56
MW-5D 4.72
MW-7D 7.88

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 7/16/03 Inspector: EdF

Weather: Mostly cloudy, humid, 73°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	✓
Access Road - surface/paving/snow	OK	✓
Overall appearance (trash/litter)	OK	✓
Pump Station at Tannery Road: Condition:	OK	✓

Pump #1 Hours: 027008 Pump #2 Hours: 031863

Leachate Collection System:

Panel - note conditions and any alarms: OK NONE

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	✓
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	✓
Meter Pit - open lid, check heater, leaks, etc.	OK	✓

Panel note conditions and any alarms: OK NONE

Totallizers (in meter pit)

RW-1 3897100 RW-3 1959400

RW-2 6812100 RW-4 1703600

Hour Meters

RW-1 107085 RW-3 258842

RW-2 114033 RW-4 096657

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:

Western seep condition: No seep or discolored staining

North seep condition: Seep present outside fence at tree line

Gas vents - general condition OK ✓

- Unusual odors, list vents/describe. NONE

Flares ignited NO OK None lite

Perimeter fence OK except man gates

Erosion/animal burrows NO If YES, describe:

Burrow north of MW-11

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 7/16/03 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.75		
MW - 2S	459.44	9.06		
MW - 3S	456.4	4.66		
MW - 4S	456.19	4.60		
MW - 5S	457.15	5.79		
MW - 7S	452.25	8.92		ok
MW - 9S	456.38	4.55		
MW - 10	486.3	35.11		
MW - 11	502.4	52.57		
MW - 12	483.11	32.59		
PZ - 1*	452	8.14		ok

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

MW-7D 9.05
MW-1D 7.21
MW-2D 8.93
MW-4D 5.42
MW-4DP 5.53
MW-5D 5.90

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/21/03 Inspector: Ed Fahrenkopf
Weather: Sunny 75° F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	✓
Access Road - surface/paving/snow	OK	✓
Overall appearance (trash/litter)	OK	✓
Pump Station at Tannery Road: Condition:	OK	✓

Pump #1 Hours: 039646 Pump #2 Hours: 032388

Leachate Collection System:

Panel - note conditions and any alarms: (OK) NONE

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	✓
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	✓
Meter Pit - open lid, check heater, leaks, etc.	OK	✓

Panel note conditions and any alarms: OK NONE

Totallizers (in meter pit)

RW-1 3942300 RW-3 1961400
RW-2 6906600 RW-4 1808100

Hour Meters

RW-1 108412 RW-3 266161
RW-2 115502 RW-4 105247

Landfill Cover Inspection

Leachate seeps Any new seeps (NO) If YES, describe:
Western seep condition: Dry
North seep condition: Slight
Gas vents - general condition (OK)
- Unusual odors, list vents/describe. ~ Gas odors
Flares ignited #8 YES
Perimeter fence OK
Erosion/animal burrows .. NO So .. (If YES), describe: (OK) Except man-gates
South fence near west end constructed wetland

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 8/21/03 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.60		
MW - 2S	459.44	8.25		
MW - 3S	456.4	4.30		
MW - 4S	456.19	4.43		
MW - 5S	457.15	5.31		
MW - 7S	452.25	9.30		
MW - 9S	456.38	4.27		
MW - 10	486.3	35.12		
MW - 11	502.4	52.14		
MW - 12	483.11	32.81		
PZ - 1*	452	8.12		

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

MW-7D : 9.49
MW-1D 7.15
MW-2D 8.25
MW-4D 5.22
MW-5A 5.42

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 9/19/23 Inspector: EcF

Weather: Sunny 60°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	✓
Access Road - surface/paving/snow	OK	✓
Overall appearance (trash/litter)	OK	✓
Pump Station at Tannery Road:	Condition: OK	✓
Pump #1 Hours: 032171	Pump #2 Hours: 032151	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK None	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	✓
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	✓
Meter Pit - open lid, check heater, leaks, etc.	OK	✓
Panel note conditions and any alarms:	OK None	

Hour Meters ~~Totalizers~~ (in meter pit)

RW-1	109348	RW-3	261744
RW-2	116615	RW-4	111713

Totalizer ~~Hour Meters~~

RW-1	3975400	RW-3	1995900
RW-2	6979300	RW-4	1838600

Landfill Cover Inspection			
Leachate seeps	Any new seeps NO	If YES, describe:	
	Western seep condition:	not present	
	North seep condition:	no change - iron staining at side fence	
Gas vents - general condition		OK	
- Unusual odors, list vents/describe.		ND	
Flares ignited		OK	None ignited
Perimeter fence		OK	Excess mesh gates
Erosion/animal burrows	NO	If YES, describe:	

Erosion along fence southeastern section beyond edge of cover & wetland area

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 9/14/10 Inspector: GGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	7.48	442.11	
MW - 2S	459.44	9.65	449.79	
MW - 3S	456.4	4.90	451.50	
MW - 4S	456.19	5.50	450.69	
MW - 5S	457.15	6.99	450.16	
MW - 7S	452.25	10.61	441.64	
MW - 9S	456.38	4.77	451.61	
MW - 10	486.3	35.57	450.73	
MW - 11	502.4	52.37	450.03	
MW - 12	483.11	33.19	449.92	
PZ - 1*	452	9.18	~~451~~ 445.19	

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

MW-7D 10.57
MW-1D 7.94
MW-2D 9.38
MW-4D 6.38
MW-5D 7.08

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: October 15, 2003 Inspector: Ed F

Weather: light Rain

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	ok
Access Road - surface/paving/snow	OK	ok
Overall appearance (trash/litter)	OK	ok
Pump Station at Tannery Road: Condition:	OK	ok
Pump #1 Hours: 38672 Pump #2 Hours:		22161
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	none
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	ok
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	ok
Meter Pit - open lid, check heater, leaks, etc.	OK	ok
Panel note conditions and any alarms:	OK	ok

Totallizers (in meter pit)

RW-1	4009300	RW-3	3028100
RW-2	7050400	RW-4	1221200

Hour Meters

RW-1	110345	RW-3	26434
RW-2	117769	RW-4	118404

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:

Western seep condition: not present

North seep condition: No change

Gas vents - general condition OK none

- Unusual odors, list vents/describe.

Flares ignited OK All except One

Perimeter fence OK

Erosion/animal burrows NO If YES, describe: two wood chuck holes between shed & MW-10.

Flares ☐ shed

off

off

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 10/15/03 Inspector: GdF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.10		
MW - 2S	459.44	7.78		
MW - 3S	456.4	3.38		
MW - 4S	456.19	3.95		
MW - 5S	457.15	4.66		
MW - 7S	452.25	9.91		
MW - 9S	456.38	3.78		
MW - 10	486.3	34.65		
MW - 11	502.4	51.79		
MW - 12	483.11	32.77		
PZ - 1*	452	9.72		

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

2D - 4.40
7D 9.73
1D 6.74
5D 5.20
4D 4.85

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/5/03 10:00 Inspector: Brent Zimmer
Weather: Overcast cool

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 39178	Pump #2 Hours: 33547	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK None	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK None	

Totallizers (in meter pit) X100

RW-1 40348 RW-3 20660
RW-2 71061 RW-4 19240

Hour Meters

RW-1 111095 RW-3 273464
RW-2 118645 RW-4 12334

Landfill Cover Inspection

Leachate seeps Any new seeps NO If YES, describe:
Western seep condition: Good
North seep condition: Good
Gas vents - general condition OK All on except one, see below
- Unusual odors, list vents/describe. None
Flares ignited OK
Perimeter fence OK
Erosion/animal burrows NO If YES, describe: two wood chuck holes on the way to MW-10 from the pump shed.

Gas Vents ☐ shed

off

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/5/03 10:00 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.87	444.72	Good
MW - 2S	459.44	6.54	452.90	Good
MW - 3S	456.4	3.51	452.89	Good
MW - 4S	456.19	3.83	452.36	~~No lock~~ Good
MW - 5S	457.15	4.36	452.79	Good
MW - 7S	452.25	8.44	443.81	Good
MW - 9S	456.38	3.76	452.62	Good
MW - 10	486.3	35.11	451.19	Good
MW - 11	502.4	52.18	450.22	Good
MW - 12	483.11	32.87	450.24	Good
PZ - 1*	*452*	5.88	446.12	Good

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/14/07 1244 Inspector: EGR

Weather: Partly Sunny 30°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	X
Access Road - surface/paving/snow	OK	X
Overall appearance (trash/litter)	OK	X
Pump Station at Tannery Road: Condition:	OK	X
Pump #1 Hours: 90249 Pump #2 Hours: 34367		
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	X
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	X
Meter Pit - open lid, check heater, leaks, etc.	OK	X
Panel note conditions and any alarms:	OK	X

Totallizers (in meter pit)

RW-1 4085300 RW-3 2164200

RW-2 721600 RW-4 2080800

Hour Meters

RW-1 112592 RW-3 233235

RW-2 120430 RW-4 133205

Landfill Cover Inspection		
Leachate seeps Any new seeps (NO)	If YES, describe:	
Western seep condition:	OK	no seep
North seep condition:	OK	no seep
Gas vents - general condition	OK	X
- Unusual odors, list vents/describe.		
Flares ignited	OK	NO - all on except } see below
Perimeter fence	OK	X
Erosion/animal burrows NO	If YES, describe:	Erosion South side LF

☐ shed

off

off

off

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/14/20 Inspector: GeP

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.86		OK
MW - 2S	459.44	6.71		
MW - 3S	456.4	3.60		
MW - 4S	456.19	3.31		
MW - 5S	457.15	4.16		
MW - 7S	452.25	7.81		
MW - 9S	456.38	3.72		
MW - 10	486.3	34.81		
MW - 11	502.4	32.02		
MW - 12	483.11	32.48		
PZ - 1*	*452*	5.81		

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

MW-2D 6.89
MW-5A 4.51
MW-4D 4.50
MW-1D 5.32

3 Flares not lite

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 1/29/04 8:00 Inspector: Brent Zimmer
Weather: Snow, Cold, Windy

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	Broken Gate Hinges
Access Road - surface/paving/snow	OK	18" Snow
Overall appearance-(trash/litter)	OK	Covered with snow
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 4135.6	Pump #2 Hours: 3522.5	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	None
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	Covered with snow
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	None

Totallizers (in meter pit) x100

RW-1	41398	RW-3	22528
RW-2	73352	RW-4	22666

Hour Meters

RW-1	114176	RW-3	29376
RW-2	122335	RW-4	14373

Landfill Cover Inspection		
Leachate seeps Any new seeps NO	If YES, describe:	
Western seep condition:	Drifted over	
North seep condition:	" "	
Gas vents - general condition	OK	All out, very windy
- Unusual odors, list vents/describe.	None	
Flares ignited	OK	All out, very windy
Perimeter fence	OK	
Erosion/animal burrows NO	If YES, describe:	

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 1/09/04 8:00 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.77	443.82	Good
MW - 2S	459.44	8.21	451.23	Good
MW - 3S	456.4	3.97	452.43	Good
MW - 4S	456.19	4.18	452.01	Good
MW - 5S	457.15	5.10	452.05	Good
MW - 7S	452.25	8.31	443.94	Good
MW - 9S	456.38	3.98	452.40	Good
MW - 10	486.3	—	—	Lock siezed up *
MW - 11	502.4	51.97	450.43	Good
MW - 12	483.11	32.46	450.65	Good
PZ - 1*	452	6.95	445.05	Good

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES: *MW-10 – the lock siezed up, thought it was frozen. So I warmed it up with my hand and tried again. Ended up Breaking the key off in it. Will cut the lock off next month.

FIGURES

MW-9S
ELEV. 452.43

MW-2PS
MW-2D
MW-2S
ELEV. 452.15

MW-1S
ELEV. 444.42
MW-1D

ELEV. 447.84
PZ-1

MW-3S
FROZEN

RW-2

RW-1

LF-1

LF-2
MW-12
ELEV. 450.32

ELEV. 450.21
MW-11

RW-4

MW-10
ELEV. 451.25

ELEV. 452.28
MW-4S
MW-4P
MW-4D

RW-3

LF

DO-2

DO-3

MW-5D
DO
MW-5S
ELEV. 452.55

MW-7D
MW-7S
ELEV. 443.72

WELL MW-8S APPROX.
275' SOUTH

452 451 450 449 448 447 446 445 444

SHEET PILE WALL

TINEIDA - HERKIMER COUNTY ASH LANDFILL

LEGEND

--- 450 --- EXISTING CONTOURS

450 ——— EXISTING GROUNDWATER CONTOURS

MW-4S
ELEV. 452.28 WELL ELEVATIONS

GRAPHIC SCALE

(IN FEET)

GROUNDWATER CONTOUR MAP
DATED: MARCH 2003
GROUNDWATER TABLE

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

DELAWARE ENGINEERING, P.C.
28 Madison Avenue Extension
Albany, New York 12203
Phone 518-452-1290
FAX 518-452-1335

SCALE	AS SHOWN
DATE	APRIL 7, 2003
DRAWN BY	KJ
CHECKED BY	
APPROVED BY	EF
FILENAME	
PROJECT NO.	
REVISED	

DRAWING NUMBER 1 SHEET NUMBER OF

FILENAME: GROUNDWATER_GW_3_03.DWG

ELEV. 452.45
MW-9S

MW-2PD
MW-2PS
MW-2D
MW-2S
ELEV. 452.15

ELEV. 452.59
MW-3S

RW-2
RW-1
LF-1
LF-2
MW-12
ELEV. 450.95

ELEV. 450.43
MW-11

RW-4

MW-10
ELEV. 451.28

LF-3
RW-3

MW-4S
MW-4P
MW-4D
ELEV. 452.32

DO-3

MW-5D
DO-1
MW-5S
ELEV. 452.45

ELEV. 444.34
MW-1S
MW-1D

ELEV. 447.77
PZ-1

DO-2

TANNERY ROAD

ONEIDA-HERKIMER COUNTY ASH LANDFILL

MW-7D
MW-7S
ELEV. 444.54

452
451
450
449
448
447
446
445
449.5
448.5
447.5

LEGEND

EXISTING CONTOURS

450 EXISTING GROUNDWATER CONTOURS

MW-4S WELL ELEVATIONS
ELEV. 452.32

WELL MW-8S APPROX. 275' SOUTH

GRAPHIC SCALE
200 0 100 200
(IN FEET)

REVISIONS
NO. | DATE | DESCRIPTION

DATE: SEPT. 2, 2003
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EF
PROJECT NO.:
FILE:

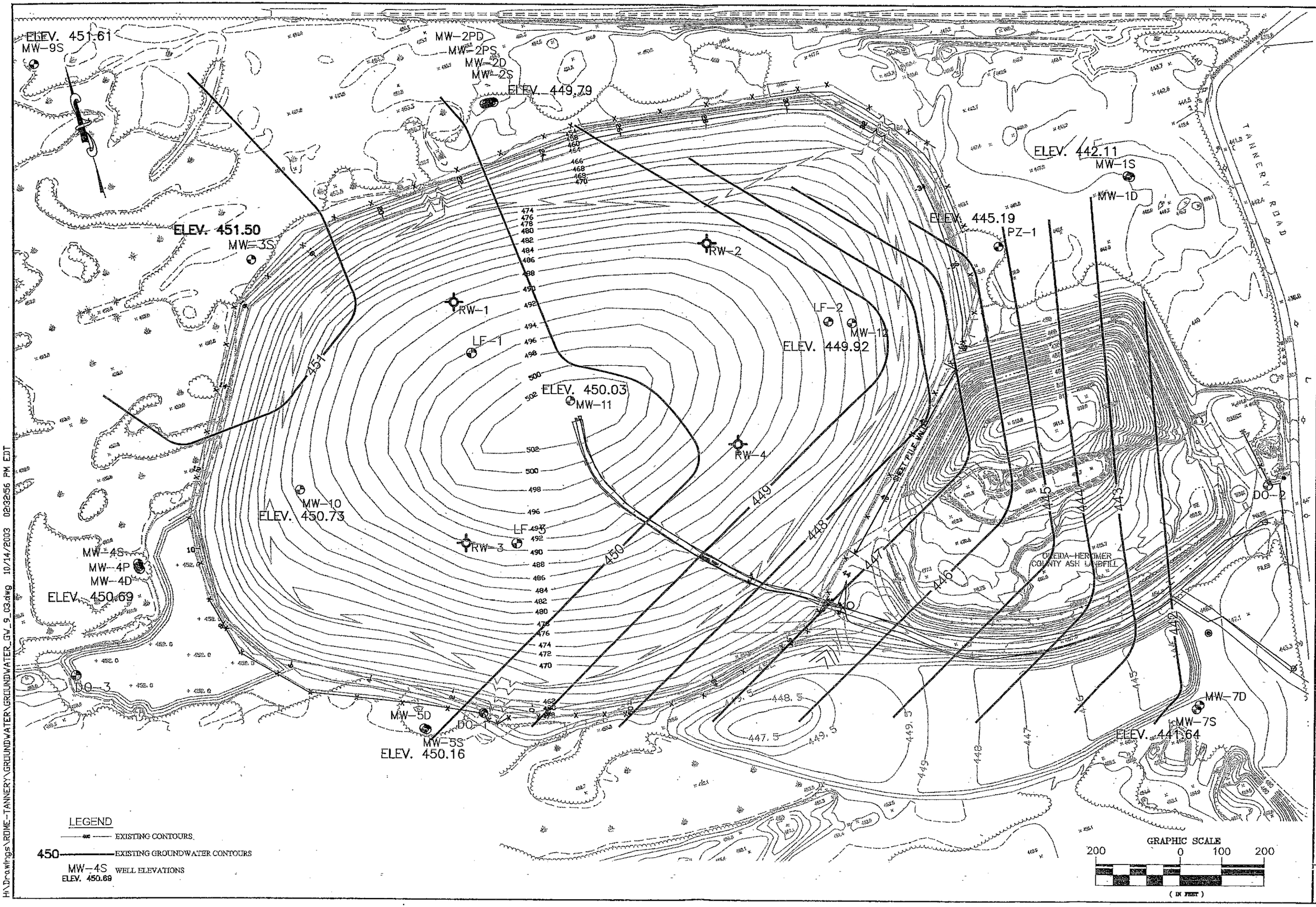
DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
8-12 DIETZ STREET, SUITE 903, ONEONTA, NY 13820 - 607.432.8073
28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1230
5 TOWNSEND STREET, WALTON, NY 13856 - 607.865.32354

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: JUNE 2003
GROUNDWATER TABLE

SHEET: 1

H:\Drawings\Figures\TANNERY\GROUNDWATER\GRDUNDWATER_GW_6_03.dwg 09/02/2003 02:50:22 PM EDT



DATE: OCT. 14, 2003
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EE
PROJECT NO.:
FILE:

DELAWARE ENGINEERING, P.C.
OIL AND ENVIRONMENTAL ENGINEERING

8-12 DIETZ STREET, SUITE 309, OneONTA, NY 13820 - 607.432.8073
28 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290
9 TOWNSEND STREET, WALTON, NY 13856 - 607.865.6234

REVISIONS

NO.	DATE	DESCRIPTION

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: SEPTEMBER 2003
GROUNDWATER TABLE

SHEET: 1

H:\Drawings\ROME-TANNERY\GROUNDWATER\GROUNDWATER_GW_9_03.dwg 10/14/2003 02:32:56 PM EDT

ELEV. 452.66
MW-9S

MW-2PD
MW-2PS
MW-2D
MW-2S
ELEV. 452.73

ELEV. 452.80
MW-3S

RW-2
RW-1
LF-1
LF-2
MW-12
ELEV. 450.63
ELEV. 450.38
MW-11

MW-10
ELEV. 452.19

RW-4
RW-3

ELEV. 452.38
MW-4S
MW-4P
MW-4D

DO-3

MW-5D
DO-1
MW-5S
ELEV. 452.99

ELEV. 444.93
MW-1S
MW-1D
ELEV. 448.56
PZ-1

STEEL PILE WALL

TANNERY ROAD

ONEIDA-HERKIMER COUNTY ASH LANDFILL

DO-2

MW-7D
MW-7S
ELEV. 444.44

452
451
450
449
448
447
446
445
444

LEGEND

EXISTING CONTOURS

450 EXISTING GROUNDWATER CONTOURS

MW-4S WELL ELEVATIONS
ELEV. 452.38

GRAPHIC SCALE
200 0 100 200
(IN FEET)

DATE: FEB. 19, 2004
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EF
PROJECT NO.:
FILE:

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REVISIONS

NO.	DATE	DESCRIPTION

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: DECEMBER 2003
GROUNDWATER TABLE

SHEET: 1